```
// -----
// ----- EnString.c - START -----
// -----
 * \defgroup Strings Strings
* @{
* /
class string
■static const string Empty;
/**
■\brief Converts string to integer
■■\return \p int - Converted \p string.
■■@code
■■string str = "56";
■■■int i = str.ToInt();
■■■Print(i);
■■■>> i = 56
@endcode
*/
■proto native int ToInt();
/**
■\brief Converts string to integer
■■\return \p int - Converted \p string.
@code
\blacksquarestring str = "0xFF";
■■■int i = str.HexToInt();
■■■Print(i);
■■■>> i = 255
■■@endcode
* /
■proto native int HexToInt();
/**
■\brief Converts string to float
■■\return \p float - Converted \p string \p in float.
@code
■■string str = "56.6";
float f = str.ToFloat();
■■■Print(f);
\blacksquare \blacksquare \blacksquare >> f = 56.6
@endcode
* /
■proto native float ToFloat();
/**
■\brief Returns a vector from a string
■■\return \p vector Converted s as vector
■■@code
■■■string str = "1 0 1";
■■■vector v = str.ToVector();
■■■Print(v);
\blacksquare \blacksquare \blacksquare >> v = <1,0,1>
@endcode
```

```
// ----- EnSystem.c - START -----
* \defgroup System System
* @{
\brief Returns world time
■\param[out] hour \p int Hour
■\param[out] minute \p int Minute
■\param[out] second \p int Second
■\return \p void
■@code
\blacksquareint hour = 0;
\blacksquareint minute = 0;
\blacksquareint second = 0;
■■GetHourMinuteSecondUTC(hour, minute, second);
■Print(hour);
■■Print(minute);
■■Print(second);
■■>> hour = 16
■■>> minute = 38
Second = 7
■@endcode
proto void GetHourMinuteSecond(out int hour, out int minute, out int second);
\brief Returns world date
■\param[out] year \p int Year
■\param[out] month \p int Month
■\param[out] day \p int Day
■\return \p void
■@code
\blacksquareint year = 0;
\blacksquareint month = 0;
\blacksquareint day = 0;
■■GetYearMonthDay(year, month, day);
■■Print(year);
■Print(month);
■■Print(day);
Section = 2015
\blacksquare>> month = 3
■■>> day = 24
■@endcode
proto void GetYearMonthDay(out int year, out int month, out int day);
\brief Returns UTC world time
■\param[out] hour \p int Hour
■\param[out] minute \p int Minute
```

■\naram[out] second \n int Second

```
// ----- entities.c - START -----
// Include c -----
// #include "Scripts/Entities/scriptedEntities.c"
// Include h (temporal) ------/
// #include "Scripts/Entities/Game/Super/InventoryItem.c"
// #include "Scripts/Entities/Core/Inherited/InventoryItem.c"
// #include "Scripts/Entities/Game/Super/Man.c"
// #include "Scripts/Entities/Core/Inherited/Man.c"
// #include "Scripts/Entities/Game/Super/LightAl.c" // #include "Scripts/Entities/Core/Inherited/LightAl.c"
// #include "Scripts/Entities/Core/Inherited/Building.c"
// #include "Scripts/Entities/Game/Super/Plant.c" // #include "Scripts/Entities/Core/Inherited/Plant.c"
// #include "Scripts/Entities/Game/Super/Building.c"
// #include "Scripts/Static/_Includes.c"
// Include c 2 -----
// #include "Scripts/Classes/_Includes.c"
// #include "Scripts/Modules/PluginManager.c"
// #include "Scripts/Entities/_Includes.c"
//
// ----- entities.c - END ------
// -----
// ----- Entity.c - START ------//
class Entity extends ObjectTyped
proto native void DisableSimulation(bool disable);
■//! Returns whether simulation is disabled
■proto native bool GetIsSimulationDisabled();
■//! Returns simulation timestamp
■proto native int GetSimulationTimeStamp();
■//! Return animation phase of animation on object.
■proto native float GetAnimationPhase(string animation);
■//! Process animation on object. Animation is defined in config file. Wanted animation phase is set to pha
 Inrote native yold SetAnimationPhase(string animation, fleat phase).
```

```
// ----- EntityAl.c - START -----
// -----
// ----- EntityAl.c - END -----
// -----
// -----
// ----- EntityLightSource.c - START ------
// -----
enum LightSourceType
■NotDef,
■PointLight,
■SpotLight
};
class EntityLightSource extends Entity
■// Generic interface
■proto native void ■■■SetLightType(int pType); // This works only if it's called in the light's constructor!
■proto native int ■■■GetLightType();
■proto native void ■■■SetEnabled(bool pState);
■proto native bool ■■■IsEnabled();
■proto native void ■■■SetCastShadow(bool pState);
proto native bool ■■■GetCastShadow();
■proto native bool ■■■EnableSpecular(bool pState);
■ proto native bool ■■■ EnableLinear(bool pState);
■proto native void ■■■SetPulseCoef(float pState);
■proto native void ■■■SetVisibleDuringDaylight(bool pState);
■proto native bool ■■■IsVisibleDuringĎaylight();
■proto native void ■■■SetRadius(float pValue);
proto native float ■■■GetRadius();
____//-----
■// heat haze
■proto native void ■■■EnableHeatHaze(bool pState);
■proto native void ■■■SetHeatHazeRadius(float pValue);
□ proto native float ■■■GetHeatHazeRadius();
■proto native void ■■■SetHeatHazePower(float pValue);
□ proto native float ■■■GetHeatHazePower():
I//-----
```

■// colors & hrightness

```
....// ----- EntranceLight.c - START ------
class EntranceLight extends PointLightBase
■protected float m_DefaultBrightness = 0.5;
■protected float m_DefaultRadius = 5.5;
■void EntranceLight()
■■SetVisibleDuringDaylight(true);
■■SetRadiusTo(m_DefaultRadius);
■■SetBrightnessTo(m_DefaultBrightness);
■■FadeIn(1);
■■SetFadeOutTime(2);
■■SetFlareVisible(false);
■■SetCastShadow(false);
■■SetAmbientColor(0.9, 0.9, 0.7);
■■SetDiffuseColor(0.9, 0.9, 0.7);
■}
class EntranceLightStairs1 : EntranceLight
■void EntranceLightStairs1()
■■SetRadiusTo(10);
■■SetBrightnessTo(0.5);
■■SetCastShadow(true);
■ SetAmbientColor(1.0, 0.4, 0.4);
■■SetDiffuseColor(1.0, 0.4, 0.4);
■}
class EntranceLightStairs2 : EntranceLight { }
class EntranceLightMain1 : EntranceLight { }
class EntranceLightMain2 : EntranceLight { }
// ----- EntranceLight.c - END ------
// ----- Environment.c - START -----
// -----
class Environment
■const float RAIN_LIMIT_LOW■= 0.05;
■const float WATER_LEVEL_HIGH■= 1.5;
■const float WATER_LEVEL_MID ■= 1.2;
■const float WATER_LEVEL_LOW ■= 0.5;
■const float WATER_LEVEL_NONE = 0.15;
Invotected float
```

```
// ----- EnVisual.c - START -----
* \defgroup Visual Visual objects
* @{
//! Loads object from data, or gets it from cache. Object must be released when not used
proto native vobject GetObject(string name);
/*!
Release object. When there are not any other references, object is stored into cache and ready to be victe
\param object Object handle
\param flag If RF_RELEASE is used, the object is evicted immediatelly, if not used by anyone else
proto native void ReleaseObject(vobject object, int flag = 0);
//! Returns number of frames, if the object is animation
proto native int GetNumAnimFrames(vobject anim);
//! Returns name of visual object
proto string vtoa(vobject vobj);
* \defgroup MeshObject Mesh object (XOB)
  @{
proto int GetObjectMaterials(vobject object, string materials[]);
// dynamic model creation (for dynamic aabb triggers)
//proto void CreateModel(IEntity ent, vector mins, vector maxs);
//proto void RemoveModel(IEntity ent);
//! Dynamic MeshObject
proto vobject CreateXOB(int nsurfaces, int nverts[], int numindices[], string materials[]);
proto void UpdateVertsEx(notnull IEntity ent, int surf, vector verts[], float uv[]);
proto void UpdateIndices(vobject obj, int surf, int indices[]);
proto native void

■SetBone(notnull lEntity ent, int bone, vector angles, vector trans, float scale);
proto native bool SetBone Matrix (not null | IEntity ent, int bone, vector mat [4]);
proto native void

■SetBoneGlobal(notnull lEntity ent, int bone, vector mat[4]);
proto native bool ■GetBoneMatrix(notnull IEntity ent, int bone, vector mat[4]);
proto native bool■GetBoneLocalMatrix(notnull IEntity ent, int bone, vector mat[4]);
proto native void SetAnimFrame(notnull lEntity ent, int slot, float frame);
//! BoneMask == NULL means that all bits are set
//! WARNING: Non-managed, needs manual delete call, should not be ref'd
class BoneMask
■int Mask[8]
enum AnimFlags
■//! animation is played only once and then if freezes at the last frame. EntityEvent.ANIMEND is called
/*! defaultne zustava animace pri prehravani a AF_ONCE po skonceni na posledni frame "zamrzla", dokuc nebo neni kanal vynulovan. Pokud se nastavi AF_BLENDOLIT, postara se engine o vyhozeni animace sa
```

```
// ----- EnVRDevice.c - START ------
#ifdef GAME_TEMPLATE
* \defgroup VRDeviceAPI generic and platform specific devices
* @{
enum VRDeviceType
■DEVICE_TYPE_OCULUS,
■DEVICE_TYPE_PS4
enum VRStatus
■VR_STATUS_UNKNOWN,■■■■■//< Unknown state, probably uninitialized.
■VR STATUS VISIBLE,■■■■■//< The HMD is being used for rendering.
■VR_STATUS_PRESENT,■■■■■//< The HMD port is open.
■VR_STATUS_MOUNTED,■■■■■//<■The HMD is mounted on users head.
■VR_STATUS_DISPLAY_LOST,■■■//< The HMD was present and disappeared.
■VR_STATUS_SHOULD_QUIT,■■■//< Application requested exit.
■VR_STATUS_SHOULD_RECENTER, ■//< The HMD Recenter request event was triggered. ■VR_STATUS_TRACKED, ■■■■■//< The tracking data for the HMD are up to date.
■VR_STATUS_CALIBRATING,■■■//< The HMD is being calibrated.
enum VRHandEnum
VR HAND LEFT, //< HMD controller left hand.
■VR_HAND_RIGHT //< HMD controller right hand.
enum VREye
■VR EYE LEFT, // HMD left eye.
■VR_EYE_RIGHT // HMD right eye.
■VRDevice interface common for all VR implementations.
■DO NOT INHERIT FROM THIS CLASS!
class VRDevice : Managed
■■\brief returns VRDevice instance.
■■\return device instance.
■proto native static VRDevice GetInstance();
■■\brief returns status flags.
■■\return current device state flags.
```

■proto native VRStatus ■■■GetStatusFlags();

```
// ----- EnWidgets.c - START -----
* \defgroup WidgetAPI Widget UI system
* @{
#ifdef DOXYGEN
/** @name WidgetType
* Following WidgetType constants are available to script
///@{
■//!Single-line text. See enf::TextWidget
■TextWidgetTypeID,
■//!Multi-line text. See enf::MultilineTextWidget
■MultilineTextWidgetTypeID,
■//!Multi-line edit box. See enf::MultilineTextWidget
■MultilineEditBoxWidgetTypeID,
■//!Multi-line text with images in text. See enf::RichTextWidget
■RichTextWidgetTypeID.
■//! Render target for enf::BaseWorld. See enf::RenderTargetWidget
■RenderTargetWidgetTypeID,
■//! Picture, or multiple picture. See enf::ImageWidget
■ImageWidgetTypeID,
■//!Console. See enf::ConsoleWidget
■ConsoleWidgetTypeID,
■//!Video player. See enf::VideoWidget
■VideoWidgetTypeID,
■//! Texture used as render target for children widgets. See enf::RTTextureWidget
■RTTextureWidgetTypeID,
■//! Dummy frame, used as hierarchy node and clipper
■FrameWidgetTypeID,
■//! Dummy frame, used for embedding another layout and as hierarchy node and clipper
■EmbededWidgetTypeID,
■ButtonWidgetTypeID,
■CheckBoxWidgetTypeID,
■WindowWidgetTypeID,
■ComboBoxWidgetTypeID,
■SimpleProgressBarWidgetTypeID,
■ProgressBarWidgetTypeID,
■SliderWidgetTypeID
■BaseListboxWidgetTypeID,
■TextListboxWidgetTypeID,
■GenericListboxWidgetTypeID,
■EditBoxWidgetTypeID,
■WorkspaceWidgetTypeID,
■GridSpacerWidgetTypeID.
■WrapSpacerWidgetTypeID,
■ScrollWidgetTypeID,
///@}
■typedef TypeID WidgetType;
#endif
typedef TypeID EventType;
enum WidgetFlags
```

\ ■SOURCEALPHA //< takes alpha from texture * alpha from color. If not set, considers texture as non-tran

```
// ----- EnWorld.c - START ------
/**
* \defgroup World World
* @{
* \defgroup WorldCommon World
* @{
typedef int[] WorldHandle;
proto native float GetWorldTime();
/*! Sets current world. It allows to work with entities outside world processing
// return previous world
proto native WorldHandle SetCurrentWorld(WorldHandle world);
//proto native void SchedulePreload(vector pos, float radius);
proto native IEntity FindEntityByName(IEntity worldEnt, string name);
proto native IEntity FindEntityByID(IEntity worldEnt, int ID);
//!returns number of active (simulated) Entities in the world
proto native int GetNumActiveEntities(IEntity worldEntity);
//!returns active entity
proto native IEntity GetActiveEntity(IEntity worldEntity, int index);
//-----
* \defgroup Camera Camera
* @{
enum CameraType
■PERSPECTIVE.
■ORTHOGRAPHIC
//! sets which camera will be a listener (for sound engine)
proto native void SetListenerCamera(int camera);
/*!
Changes camera position
\param cam Index of camera
\param origin position
\param angle

orientation
proto native void SetCamera(int cam, vector origin, vector angle);
//! Changes camera matrix
proto native void SetCameraEx(int cam, const vector mat[4]);
```

//IReturns current camera transformation

```
// ----- Epinephrine.c - START -----
class Epinephrine: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionInjectEpinephrineTarget);
■■AddAction(ActionInjectEpinephrineSelf);
■override void OnApply(PlayerBase player)
■If (!player)
■■return;
■■if( player.GetModifiersManager().IsModifierActive(eModifiers.MDF_EPINEPHRINE ) )//effectively reset
■■■player.GetModifiersManager().DeactivateModifier( eModifiers.MDF_EPINEPHRINE );
■■player.GetModifiersManager().ActivateModifier( eModifiers.MDF_EPINEPHRINE );
};
// ----- EpinephrineMdfr.c - START -------//
class EpinephrineMdfr: ModifierBase
■const int LIFETIME = 60;
■const float STAMINA_DEPLETION_MULTIPLIER = 0;
■override void Init()
■{
■■m_TrackActivatedTime = true;
■■m_IsPersistent = true;
■■m_ID ■■■■= eModifiers.MDF_EPINEPHRINE;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= 1;
■■DisableActivateCheck();
■}
■override bool ActivateCondition(PlayerBase player)
■■return false;
■override void OnReconnect(PlayerBase player)
■■OnActivate(player);
```

```
// ----- EPlayerStates.c - START -----
enum EPlayerStates
■ALIVE,
■DEAD,
// -----
// ----- EPlayerStates.c - END -----
// -----
// -----
// ----- EpoxyPutty.c - START -----
class EpoxyPutty: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionRepairCarPart); //Heals ONLY global health for now
■■AddAction(ActionRepairCarChassis);
■}
};
// -----
----- EpoxyPutty.c - END -----
// ----- EPulseType.c - START -----
enum EPulseType
■REGULAR,
■IRREGULAR,
// -----
// ----- EPulseType.c - END -----
// ----- ERPCs.c - START -----
// -----
enum ERPCs
```

PR START - -1

```
...
// ----- ErrorHandlerModule.c - START -------//
// Definition
//! Definition and API of an ErrorHandlerModule - Do not insert any logic here! (as this class is not moddab
class ErrorHandlerModule
■//! Returns the category the module handles.
■proto native ErrorCategory GetCategory();
■//! Set the category the module handles.
■proto native void SetCategory(ErrorCategory category);
■//! Event that gets triggered when an error of the owned category is thrown.
■protected void OnErrorThrown(int errorCode, owned string additionalInfo = "")
■#ifdef DEVELOPER
■■Print(ErrorModuleHandler.GetErrorHex(errorCode));
■#endif
■//! Retrieve the message shown on Client
■string GetClientMessage(int errorCode, string additionalInfo = "")
■■return GetSimpleMessage(errorCode, additionalInfo);
■}
■//! Retrieve the message shown on Client
■string GetLastClientMessage(int errorCode)
■■return GetSimpleMessage(errorCode);
■}
■//! Retrieve the message shown on Server
■string GetServerMessage(int errorCode, string additionalInfo = "")
■■return GetSimpleMessage(errorCode, additionalInfo);
//! Retrieve the message shown on Server
■string GetLastServerMessage(int errorCode)
■■return GetSimpleMessage(errorCode);
|
■//! Simple message of just code and info
■string GetSimpleMessage(int errorCode, string additionalInfo = "")
■ return string.Format("[%1]: %2", ErrorModuleHandler.GetErrorHex(errorCode), additionalInfo);
■//! Event called by ErrorModuleHandler
■void OnEvent(EventType eventTypeId, Param params)
|
```

// Script override

```
// ----- ErrorModuleHandler.c - START ------
 \brief ErrorCategory - To decide what ErrorHandlerModule needs to be called and easily identify where it
enum ErrorCategory
\blacksquareUnknown/* = -1*/,
■//! Generic error group
■Generic.
■//! Error group for when something went wrong while trying to connect to the server
■ConnectErrorClient,
■//! Error group for when the Client did connect to the Server, but the server rejected the connection
■ConnectĔrrorServer,
■//! Error group for connect errors thrown from Script
■ConnectErrorScript,
■//! Error group for when Client is kicked from server
■ClientKicked,
■//! Error group for BIOS errors
■BIOSError,
};
 \brief The error handler itself, for managing and distributing errors to modules
■* Manages the ErrorHandlerModule instances inserted in Init.
■* API comes with several functions to Create, Throw and extract data from error codes.
■* The format used is an int which is made up of two shorts, one that holds the category and one that hold
■* Therefore when looking at an error code, it is much easier to identify when looking at the hex value.
class ErrorModuleHandler
■\brief Creates and throws the error code, sending it to the handler of the category.
■■\param category \p_ErrorCategory Category the error is thrown from
■■\param code \p int The code that the error belongs to inside the category between [-32768, 32767]
■■\param additionalInfo \p string Any additional info regarding the error, usually data
■■\return \p int The full error code
■■@code
■■■int errorCode = ErrorModuleHandler.ThrowError( ErrorCategory.ConnectErrorClient, -1);
■■■Print( errorCode );
■■■>> errorCode = 196607
■■@endcode
*/
■static proto int ■■■■■■ThrowError(ErrorCategory category, int code, string additionalInfo = "");
■\brief Throws the error code and sends it to the handler of the category.
■■\param errorCode \p int The full error code
■■\param additionalInfo \p string Any additional info regarding the error, usually data
■■\return \p int The full error code
■■@code
■■■int errorCode = ErrorModuleHandler.ThrowErrorCode( 0x0002FFFF );
■■■Print( errorCode );
■■>> errorCode = 196607
■■@endcode
■static proto int■■■■■■ThrowErrorCode(int errorCode, string additionalInfo = "");
```

```
// ----- ErrorProperties.c - START -----
//! Class which holds the properties and handling of an error
class ErrorProperties
`■const string EP_HEADER_FORMAT_STRING = "%1 (%2)"; //!< Formating for header (%1 = Header; %2
■const string EP_MESSAGE_FORMAT_STRING = "%1\n(%2)"; //!< Formating for message (%1 = Messa
protected string m_Message; //!< Message which will appear on Client</p>
protected string m_ServerMessage; //!< Message which will appear on Server</p>
■void ErrorProperties(string message, string serverMessage)
■■m_Message = message;
■■m_ServerMessage = serverMessage;
■void HandleError(int errorCode, string additionalInfo = "") {}
■string GetClientMessage(string additionalInfo = "")
■■if (additionalInfo!="")
■■■return string.Format(EP_MESSAGE_FORMAT_STRING, m_Message, additionalInfo);
■■else
■■■return m_Message;
■}
■string GetServerMessage(string additionalInfo = "")
■■if ( additionalInfo != "" )
■■■return string.Format(EP_MESSAGE_FORMAT_STRING, m_ServerMessage, additionalInfo);
■■■return m_ServerMessage;
■}
//! Error which shows a generic Dialogue UI
class DialogueErrorProperties: ErrorProperties
■protected string m_Header;
■protected int m_DialogButtonType;
■protected int m_DefaultButton;
■protected int m_DialogMeaningType;
■protected UIScriptedMenu m_Handler;
■protected bool m_DisplayAdditionalInfo;
■void DialogueErrorProperties(string message, string serverMessage, string header, UIScriptedMenu han
■■m_Header = header;
■■m_DialogButtonType = dialogButtonType;
■■m_DefaultButton = defaultButton;
■■m_DialogMeaningType = dialogMeaningType;
■■m_Handler = handler;
■■m_DisplayAdditionalInfo = displayAdditionalInfo;
■override void HandleError(int errorCode, string additionalInfo = "")
#ifdef NO GUI
```

■ return: //do not display error if GIII is disabled

```
// ----- EStaminaConsumers.c - START ------
enum EStaminaConsumers
■HOLD_BREATH,
■MELEE_HEAVY,
■MELEE_EVADE,
■SPRINT.
■JUMP,
■VAULT,
■CLIMB,
■ROLL,
■DROWN,
// -----
// ----- EStaminaConsumers.c - END -----
// ----- EStaminaModifiers.c - START ------
enum EStaminaModifiers
■HOLD_BREATH,
■JUMP.
■MELEE_LIGHT,
■MELEE_HEAVY,
■MELEE_EVADE,
■OVERALL_DRAIN,
■VAULT,
■CLIMB,
■ROLL,
■DROWN,
// ----- EStaminaModifiers.c - END -----
// -----
// ----- EStatLevels.c - START ------
enum EStatLevels
■GREAT,
■HIGH,
■MEDIUM,
■LOW,
■CRITICAL,
```

```
// ----- ESyncEvent.c - START -----
enum ESyncEvent
■PlayerList,
■EntityKill,
■PlayerIgnateFireplayce
// -----
// ----- ESyncEvent.c - END ------//
// -----
// ----- ETimeOfDay.c - START ------//
enum ETimeOfDay
■Day,
■Night,
// -----
// ----- ETimeOfDay.c - END -----
// -----
// ----- Events.c - START ------
/**@enum■WeaponEventID
* @brief■identifier for events.
* mainly for rpc purposes
enum WeaponEventID
■UNKNOWN,
■MECHANISM,
■TRIGGER,
■TRIGGER_JAM,
■TRIGGER_AUTO_START,
■TRIGGER_AUTO_END,
■LOAD1_BULLET,
■CONTINUOUS_LOADBULLET_START,
■CONTINUOUS_LOADBULLET_END,
■UNJAM,
■ATTACH_MAGAZINE,
■UNJAMMING_FAILED_TIMEOUT,
■UNJAMMING_TIMEOUT,
■DETACH_MAGAZINE,
■SWAP_MAGAZINE,
■HUMANCOMMAND_ACTION_FINISHED,
```

■HIIMANCOMMAND ACTION ABORTED

```
// ----- EWaterLevels.c - START -----
enum EWaterLevels
■LEVEL_LOW,
■LEVEL_CROUCH, //high enough to disallow prone
■LEVEL_ERECT, //high enough to disallow prone and crouch
■LEVEL_SWIM_START //high enough
// ----- EWaterLevels.c - END -----
// -----
// ----- ExhaustSmoke.c - START -----
class EffExhaustSmoke : EffVehicleSmoke
■override void SetParticleStateLight()
■■SetParticleState( ParticleList.HATCHBACK_EXHAUST_SMOKE );
■■Car parent = Car.Cast( GetAttachmentParent() );
■■Particle p = GetParticle();
■■if (parent && p)
float speed = parent.GetSpeedometerAbsolute();
■■■float lifetime_scale;
■■if (speed < 100)
■■■lifetime_scale = (100 - speed) / 100;
■■■else
\blacksquare lifetime_scale = 0.1;
■■■float birthrate_scale = 1 + (speed * 0.1);
■■■p.ScaleParticleParamFromOriginal( EmitorParam.LIFETIME, lifetime_scale );
■■■p.ScaleParticleParamFromOriginal(EmitorParam.LIFETIME_RND, lifetime_scale);
■■■p.ScaleParticleParamFromOriginal( EmitorParam.BIRTH_RATE, birthrate_scale );
■■■p.ScaleParticleParamFromOriginal(EmitorParam.BIRTH_RATE_RND, birthrate_scale);
——}
■}
// ----- ExhaustSmoke.c - END ------
```

```
// ----- Explosion.c - START -----
// WIP
class Explosion
■void SpawnEffect( vector position, Effect eff, vector pos, vector ori)
■■SEffectManager.PlayInWorld(eff, pos);
class ExplosionTest: House
■ref Timer m_Delay;
■void ExplosionTest()
■m_Delay = new Timer;
■■m_Delay.Run(1, this, "ExplodeNow", null, false);
■void ExplodeNow()
■■Explode(DT_EXPLOSION, "Explosion_NonLethal");
// ----- Explosion.c - END ------//
// ----- ExplosivesBase.c - START ------
class ExplosiveLight: PointLightBase
■protected static float m_DefaultBrightness■= 10;
■protected static float m_DefaultRadius■= 30;
■void ExplosiveLight()
■■SetVisibleDuringDaylight(false);
■■SetRadiusTo(m_DefaultRadius);
■■SetBrightnessTo(m_DefaultBrightness);
■■SetFlareVisible(false);
■SetAmbientColor(1.0, 1.0, 0.3);
■■SetDiffuseColor(1.0, 1.0, 0.3);
■■SetLifetime(0.15);
■■SetDisableShadowsWithinRadius(-1);
■}■
class ExplosivesBase: ItemBase
```

```
// ----- ExtinguishTorch.c - START ------
class ExtinguishTorch extends RecipeBase■
■override void Init()
[
■■m_Name = "#extinguish";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 0.5;//animation length in relative time units
m_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■//TODO SS 2.0 should modify MinQuantity of liquid
■■m_MinQuantityIngredient[1] = 100;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Torch");//you can insert multiple ingredients this way
■■InsertIngredient(0,"Broom");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Pot");//you can insert multiple ingredients this way
■■InsertIngredient(1,"CanisterGasoline");//you can insert multiple ingredients this way
■■InsertIngredient(1, "DisinfectantAlcohol");//you can insert multiple ingredients this way
InsertIngredient(1,"Canteen");//you can insert multiple ingredients this way
InsertIngredient(1,"WaterBottle");//you can insert multiple ingredients this way
InsertIngredient(1,"Vodka");//you can insert multiple ingredients this way
■■InsertIngredient(1,"WaterPouch_ColorBase");//you can insert multiple ingredients this way
■■InsertIngredient(1,"Barrel_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m_IngredientSetHealth[1] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[1] = -100;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = true;// set 'true' to allow modification of the values by softskills on this in
■■//result1
■■//AddResult("");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
```

m_ResultSetQuantity[0] = -1;//-1 = do nothing

```
----- EyeMask_Colorbase.c - START ------
class EyeMask_ColorBase : Clothing
■// IGNITION ACTION
■override bool HasFlammableMaterial()
■■return true:
■override bool CanBelgnitedBy(EntityAl igniter = null)
■ return !GetHierarchyParent();
■override bool CanIgniteItem(EntityAl ignite_target = null)
■ return false;
■override void OnIgnitedTarget(EntityAl ignited_item) {}
■override void OnIgnitedThis(EntityAl fire_source)
■■Fireplace.IgniteEntityAsFireplace(this, fire_source);
■override bool IsThisIgnitionSuccessful(EntityAl item_source = null)
■■return Fireplace.CanIgniteEntityAsFireplace(this);
■override bool CanPutAsAttachment(EntityAl parent)
■■if (!super.CanPutAsAttachment(parent))
■■ return false:
Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if (mask && mask.ConfigGetBool("noEyewear"))
■■return false;
■ return true:
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
■■AddAction(ActionAttach);
■■AddAction(ActionDetach):
```

```
// ----- EyePatch_improvised.c - START ------
class EyePatch_Improvised extends Clothing
moverride array<int> GetEffectWidgetTypes()
■ return {EffectWidgetsTypes.EYEPATCH_OCCLUDER};
■override bool CanPutAsAttachment(EntityAl parent)
■ if (!super.CanPutAsAttachment(parent))
■■return false;
■■Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if (mask && mask.ConfigGetBool("noEyewear"))
■■ return false;
■return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- EyePatch_improvised.c - END -------//
class FaceCover_Improvised extends Clothing
override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- FaceCover_improvised.c - END ------
// -----
```

```
// ----- FAL.c - START -----
class FAL_Base : RifleBoltLock_Base
■override RecoilBase SpawnRecoilObject()
■ return new FALRecoil(this);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
GameInventory inventory = GetInventory();
■■inventory.CreateInInventory( "Fal_OeBttstck" );
■■inventory.CreateInInventory( "M4_T3NRDSOptic" );
■■inventory.CreateInInventory( "Battery9V" );
■■SpawnAttachedMagazine("Mag_FAL_20Rnd");
■}
};
// -----
// ----- FAL.c - END -----
// -----
// ----- FALRecoil.c - START ------
class FALRecoil: RecoilBase
■override void Init()
■■vector point_1;
■■vector point_2;
■■vector point_3;
 ■■vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomIn
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
 ■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 1;
■■m_MouseOffsetRangeMin = 50;//in degrees min
■■m_MouseOffsetRangeMax = 120;//in degrees max
 ■■m_MouseOffsetDistance = 1.8;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.5;//[0..1] a time it takes to move the mouse the required distance rela
 ■m_CamOffsetDistance = 0.01;
```

■■m_CamOffsetRelativeTime = 1;

```
// ----- FAMAS.c - START ------
class Famas_Base : RifleBoltFree_Base
■override RecoilBase SpawnRecoilObject()
■ return new FamasRecoil(this);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■■SpawnAttachedMagazine("Mag_Famas_25Rnd");
■/*override int GetWeaponSpecificCommand(int weaponAction, int subCommand)
■■if (weaponAction == WeaponActions.RELOAD)
■■■switch (subCommand)
■■■ case WeaponActionReloadTypes.RELOADSRIFLE_MAGAZINE_BULLET:
■■■■return WeaponActionReloadTypes.RELOADRIFLE_MAGAZINE_BULLET;
  ■■■case WeaponActionReloadTypes.RELOADSRIFLE_NOMAGAZINE_BULLET:
■■■■return WeaponActionReloadTypes.RELOADRIFLE_NOMAGAZINE_BULLET;
   ■ case WeaponActionReloadTypes.RELOADSRIFLE_MAGAZINE_NOBULLET:
■■■■return WeaponActionReloadTypes.RELOADRIFLE_MAGAZINE_NOBULLET;
■■■case WeaponActionReloadTypes.RELOADSRIFLE_NOMAGAZINE_NOBULLET:
  ■■■return WeaponActionReloadTypes.RELOADRIFLE_NOMAGAZINE_NOBULLET;
■■■■default:
■■■■return subCommand;
| | |
■■return subCommand;
■}*/
class FAMAS : Famas_Base {};
class SawedOffFAMAS : Famas_Base {};
// ----- FAMAS.c - END -------//
// ----- FamasRecoil.c - START ------
class FamasRecoil: RecoilBase
moverride void Init()
```

```
// ----- FangeKnife.c - START ------
class FangeKnife extends ToolBase
■override bool IsMeleeFinisher()
■ return true;
■override array<int> GetValidFinishers()
■ return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionBurnSewTarget);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionSkinning);
■■AddAction(ActionMineBush);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionBurnSewSelf);
■■AddAction(ActionDigWorms);
■■AddAction(ActionShaveTarget);
■■AddAction(ActionShave);
|
...
// ----- FangeKnife.c - END -------//
// -----
..
// ----- FarmingHoe.c - START ------
// -----
class FarmingHoe: ItemBase
override bool CanMakeGardenplot()
■return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionClapBearTrapWithThisItem);
■ AddAction(ActionDigGardenPlot);
■ AddAction(ActionDigGardenPlot);
■ AddAction(ActionDismantleGardenPlot);
■■AddAction(ActionDismantlePart);
■■AddAction(ActionBuildPart);
■■AddAction(ActionBuryBody);
```

■■AddAction(ActionBuryAshes)

```
----- Fatigue.c - START ------
class FatigueMdfr: ModifierBase
■private float m_Time;
■private float m_NextEvent;
■static const float FATIGUE EVENT INTERVAL MIN = 5:
■static const float FATIGUE_EVENT_INTERVAL_MAX = 12;
■static const float STAMINA_RECOVERY_MULTIPLIER = 0.33;
■static const float STAMINA_DEPLETION_MULTIPLIER = 1.33;
■override void Init()
■{
■■m_TrackActivatedTime = false;
■■m_ID ■■■■= eModifiers.MDF_FATIGUE;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE_LONG;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■}
■override bool ActivateCondition(PlayerBase player)
■ return (player.GetModifiersManager().IsModifierActive(eModifiers.MDF_WOUND_INFECTION1) || play
■override void OnActivate(PlayerBase player)
■■if( player.m_NotifiersManager )
■■■player.m_NotifiersManager.ActivateByType(eNotifiers.NTF_FEVERISH);
■■player.GetStaminaHandler().ActivateRecoveryModifier(EStaminaMultiplierTypes.FATIGUE);
■■player.GetStaminaHandler().ActivateDepletionModifier(EStaminaMultiplierTypes.FATIGUE);
■}
■override void OnReconnect(PlayerBase player)
■■this.OnActivate(player);
■override void OnDeactivate(PlayerBase player)
■ Player.GetStaminaHandler().SetDepletionMultiplier(1);
■■player.GetStaminaHandler().DeactivateRecoveryModifier(EStaminaMultiplierTypes.FATIGUE);
■■player.GetStaminaHandler().DeactivateDepletionModifier(EStaminaMultiplierTypes.FATIGUE);
■}
■override bool DeactivateCondition(PlayerBase player)
■■return !ActivateCondition(player);
■override void OnTick(PlayerBase player, float deltaT)
```

```
// ----- Feet.c - START -----
class MaleFeet_Base extends InventoryItem {};
class FemaleFeet_Base extends InventoryItem {};
class MaleAdamFeet extends MaleFeet_Base {};
class MaleBorisFeet extends MaleFeet_Base {};
class MaleCyrilFeet extends MaleFeet_Base {};
class MaleDenisFeet extends MaleFeet_Base {};
class MaleEliasFeet extends MaleFeet_Base {};
class MaleFrancisFeet extends MaleFeet_Base {};
class MaleGuoFeet extends MaleFeet_Base {};
class MaleHassanFeet extends MaleFeet_Base {};
class MaleIndarFeet extends MaleFeet_Base {};
class MaleJoseFeet extends MaleFeet_Base {};
class MaleKaitoFeet extends MaleFeet_Base {};
class MaleLewisFeet extends MaleFeet_Base {};
class MaleManuaFeet extends MaleFeet_Base {};
class MaleNikiFeet extends MaleFeet_Base {};
class MaleOliverFeet extends MaleFeet_Base {};
class MalePeterFeet extends MaleFeet_Base {};
class MaleQuinnFeet extends MaleFeet_Base {};
class MaleRolfFeet extends MaleFeet_Base {};
class MaleSethFeet extends MaleFeet_Base {};
class MaleTaikiFeet extends MaleFeet_Base {};
class MaleDeanFeet extends MaleFeet_Base {};
class FemaleEvaFeet extends FemaleFeet_Base {};
class FemaleFridaFeet extends FemaleFeet_Base {};
class FemaleGabiFeet extends FemaleFeet_Base {};
class FemaleHelgaFeet extends FemaleFeet_Base {};
class FemaleIrenaFeet extends FemaleFeet_Base {};
class FemaleJudyFeet extends FemaleFeet_Base {};
class FemaleKeikoFeet extends FemaleFeet_Base {};
class FemaleLindaFeet extends FemaleFeet_Base {};
class FemaleMariaFeet extends FemaleFeet_Base {};
class FemaleNaomiFeet extends FemaleFeet_Base {};
/// ----- Feet.c - END -------///
// -----
// ----- FeetCover_improvised.c - START -----
class FeetCover_Improvised extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
■}
```

```
----- Fence.c - START ------
class Fence extends BaseBuildingBase
■const int GATE_STATE_NONE ■■■■= 0;
■const int GATE_STATE_PARTIAL ■■■= 1;
■const int GATE_STATE_FULL ■■■= 2;

    □ const string ATTACHMENT_SLOT_COMBINATION_LOCK
    □ = "Att_CombinationLock";
    □ const string SOUND_GATE_OPEN_START
    □ = "DoorWoodTowerOpen_SoundSet";
    □ = "DoorWoodTowerClose_start_SoundSet";

■const string SOUND_GATE_CLOSE_END■■■■= "DoorWoodTowerClose_end_SoundSet";
■//gate openining
■const float GATE_ROTATION_ANGLE_DEG ■■■= 100;
■const float GATE_ROTATION_TIME_APPROX■■■= 2000;■■//ms
■const float MAX_ACTION_DETECTION_ANGLE_RAD ■■= 1.3;■■//1.3 RAD = ~75 DEG
■const float MAX ACTION DETECTION DISTANCE ■■= 2.0:■■//meters
■typename ATTACHMENT_WOODEN_LOG■■■= WoodenLog;
■typename ATTACHMENT_COMBINATION_LOCK = CombinationLock;
string ATTSLOT_CAMONET = "Wall_Camonet";
■string ATTSLOT_BARBEDWIRE_DOWN■■= "Wall_Barbedwire_1";
■string ATTSLOT_BARBEDWIRE_UP■■= "Wall_Barbedwire_2";
■//protected bool m_HasHinges
■ false;
■//protected bool m_GateFullyConstructed ■= false;
■protected bool m_ToDiscard ■■■■= false; //for legacy OnStoreLoad handling
■protected bool m_lsOpened ■■■= false;
■protected bool m_lsOpenedClient■■= false;
■protected int m_GateState ■■■■ 0;
protected EffectSound m_SoundGate_Start;
■protected EffectSound m_SoundGate_End;
■void Fence()
■■//synchronized variables
■■//RegisterNetSyncVariableBool( "m_HasHinges" );
■■//RegisterNetSyncVariableBool( "m_GateFullyConstructed" );
■■RegisterNetSyncVariableBool( "m_IsOpened" );
■■RegisterNetSyncVariableInt( "m_GateState" );
■}
■override string GetConstructionKitType()
■■return "FenceKit";
•}
■override int GetMeleeTargetType()
■■return EMeleeTargetType.NONALIGNABLE;
•}
■//Gate
■bool HasHinges()
```

■ return m GateState > GATE STATE NONE:

```
// ----- FenceKit.c - START -----
class FenceKit extends KitBase
■override bool CanReceiveAttachment(EntityAl attachment, int slotId)
■■if (!super.CanReceiveAttachment(attachment, slotId))
■■ return false:
■■ItemBase att = ItemBase.Cast(GetInventory().FindAttachment(slotId));
■■return false;
■■return true;
■// ADVANCED PLACEMENT
■override void OnPlacementComplete(Man player, vector position = "0 0 0", vector orientation = "0 0 0")
■■super.OnPlacementComplete( player, position, orientation );
■■if ( GetGame().IsServer() )
■■■//Create fence
■■■Fence fence = Fence.Cast( GetGame().CreateObjectEx( "Fence", GetPosition(), ECE_PLACE_ON_S
■■■fence.SetPosition( position );
■■fence.SetOrientation( orientation );
■■■//make the kit invisible, so it can be destroyed from deploy UA when action ends
■■HideAllSelections();
■■■SetIsDeploySound( true );
■}
■override bool DoPlacingHeightCheck()
■■return true;
■override float HeightCheckOverride()
■ return 2.54;
■override void DisassembleKit(ItemBase item)
■if (!IsHologram())
■■■ItemBase stick = ItemBase.Cast(GetGame().CreateObjectEx("WoodenStick",GetPosition(),ECE_PLA
■■■MiscGameplayFunctions.TransferItemProperties(this, stick);
■■■stick.SetQuantity(2);
Rope rope = Rope.Cast(item);
■■■CreateRope(rope);
```

```
----- Fever.c - START ------
class FeverMdfr: ModifierBase
■private float m_Time;
■private float m_NextEvent;
■static const float EVENT_INTERVAL_MIN = 12;
■static const float EVENT_INTERVAL_MAX = 18;
■override void Init()
■■m_TrackActivatedTime = false;
■■m ID ■■■■= eModifiers.MDF FEVER;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE_SHORT;
■override bool ActivateCondition(PlayerBase player)
■■return (player.GetModifiersManager().IsModifierActive(eModifiers.MDF_CHOLERA) || player.GetModifi
■override void OnActivate(PlayerBase player)
■■if( player.m_NotifiersManager )
■■■player.m_NotifiersManager.ActivateByType(eNotifiers.NTF_FEVERISH);
■■player.GetSymptomManager().QueueUpSecondarySymptom(SymptomIDs.SYMPTOM_FEVERBLUR)
■override void OnReconnect(PlayerBase player)
■■this.OnActivate(player);
■override void OnDeactivate(PlayerBase player)
■■if( player.m_NotifiersManager )
■■■player.m_NotifiersManager.DeactivateByType(eNotifiers.NTF_FEVERISH);
■■player.GetSymptomManager().RemoveSecondarySymptom(SymptomIDs.SYMPTOM_FEVERBLUR);
■override bool DeactivateCondition(PlayerBase player)
■■return !ActivateCondition(player);
■}
■override void OnTick(PlayerBase player, float deltaT)
■■float water_loss = deltaT * PlayerConstants.WATER_LOSS_FEVER;
■■player.GetStatWater().Add(-water_loss);
■■m_Time += deltaT;
■■if ( m_Time >= m_NextEvent )
```

■■m Time – 0:

```
// ----- FeverBlurState.c - START ------
class FeverBlurSymptom extends SymptomBase
■Material m_MatGauss;
■float m_BlurDuration;
■float m BlurStrength;
■float m_EffectTime;
■float m_EffectStartTime;
■float m_Time;
■protected PPERequester_FeverEffects ■m_Requester;
■const float BLUR_STRENGTH_MIN = 0.15;
■const float BLUR_STRENGTH_MAX = 0.25;
■const int BLUR_DURATION_TIME_MIN = 1.5;
■const int BLUR_DURATION_TIME_MAX = 2.5;
■const int MIN_TIME_BETWEEN_EFFECTS = 25.0;
■const int MAX_TIME_BETWEEN_EFFECTS = 35.0;
■//this is just for the Symptom parameters set-up and is called even if the Symptom doesn't execute, don't
■override void OnInit()
■■m_SymptomType = SymptomTypes.SECONDARY;
\blacksquare \blacksquare m_Priority = 0;
■■m_ID = SymptomIDs.SYMPTOM_FEVERBLUR;
■■m_DestroyOnAnimFinish = true;
■■m IsPersistent = false;
■■m_SyncToClient = true;
■■if (!GetGame().IsDedicatedServer())
■■■Class.CastTo(m_Requester,PPERequesterBank.GetRequester(PPERequester_FeverEffects));
}
•}
■//!gets called every frame
■override void OnUpdateServer(PlayerBase player, float deltatime)
\blacksquare//int i = 1 + 1;
■override void OnUpdateClient(PlayerBase player, float deltatime)
■■m_Time += deltatime;
■■if ( m_EffectStartTime <= 0 )
■■■m_EffectStartTime = Math.RandomFloatInclusive(MIN_TIME_BETWEEN_EFFECTS, MAX_TIME_B
■■■m_BlurDuration = Math.RandomFloatInclusive(BLUR_DURATION_TIME_MIN, BLUR_DURATION_1
■■■m_BlurStrength = Math.RandomFloat(BLUR_STRENGTH_MIN, BLUR_STRENGTH_MAX);
■■■//PrintString("m_BlurDuration=" +m_BlurDuration.ToString());
■■}
■■if ( m_EffectStartTime > 0 && m_Time > m_EffectStartTime )
■■m EffectTime += deltatime / m BlurDuration;
```

■■float cos_value – Math Sin(m_EffectTime_* Math PI):

```
// ----- FeverNotfr.c - START -----
class FeverNotfr: NotifierBase
void FeverNotfr(NotifiersManager manager)
■■m_Active = false;
■override int GetNotifierType()
■ return eNotifiers.NTF_FEVERISH;
■override void DisplayBadge()
■//■Print("FEVER");
■■///GetVirtualHud().SetStatus(eDisplayElements.DELM_NTFR_FEVER,DELM_LVL_1);
■override void HideBadge()
{
■■///GetVirtualHud().SetStatus(eDisplayElements.DELM_NTFR_FEVER,DELM_LVL_0);
};
// -----
// ----- FeverNotfr.c - END ------
// ----- FieldShovel.c - START ------
class FieldShovel extends ItemBase
override bool CanMakeGardenplot()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionClapBearTrapWithThisItem);
■■AddAction(ActionTogglePlaceObject);
■ AddAction(ActionDigGardenPlot);
■ AddAction(ActionDismantleGardenPlot);
■ AddAction(ActionDismantlePart);
■■AddAction(ActionBuildPart);
■■AddAction(ActionBuryBody);
■■AddAction(ActionBuryAshes);
■■AddAction(ActionDigInStash);
```

■■AddAction(ActionFillOhiect)

```
// ----- FillGasMask_Filter.c - START -------
class FillGasMask_Filter extends RecipeBase■
■override void Init()
■{
■■m_Name = "#STR_FillFilter";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 0.5;//animation length in relative time units
m_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"CharcoalTablets");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"GasMask_Filter");//you can insert multiple ingredients this way
■■InsertIngredient(1,"GasMask_Filter_Improvised");
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-/*
■■//result1
■■//AddResult("GasMask_Filter_Improvised");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = 0;//-1 = do nothing
\blacksquarem_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w

*/

```
// ----- FillSyringe.c - START ------
class FillSyringe extends RecipeBase
■override void Init()
■{
■■m_Name = "#fill";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = -0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"InjectionVial");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = true;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Syringe");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = true;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
■■AddResult("ClearSyringe");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
\blacksquarem_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

■override bool CanDo(ItemBase ingredients[]_PlaverBase plaver)//final check for recipe's validity

```
----- FirearmActionAttachMagazine.c - START ------
class AttachMagazineActionReciveData : ActionReciveData
■ref InventoryLocation m_ilOldMagazine;
class AttachMagazineActionData: ActionData
■ref InventoryLocation m_ilOldMagazine;
■Magazine m_oldMagazine;
class FirearmActionAttachMagazine: FirearmActionBase
 // ■Action events and methods
■void FirearmActionAttachMagazine()
■■m_Text = "#attach";
■override int GetActionCategory()
■■return AC_SINGLE_USE;
■override bool ActionCondition( PlayerBase player, ActionTarget target, ItemBase item ) //condition for ac
■■if (!super.ActionCondition( player, target, item ))
■■return false;
■■HumanCommandWeapons hcw = player.GetCommandModifier_Weapons();
■■Magazine mag = Magazine.Cast(target.GetObject());■
■■Weapon_Base wpn = Weapon_Base.Cast(item);■
■■return mag && (player.GetWeaponManager().CanAttachMagazine(wpn,mag) || player.GetWeaponManager
■override bool ActionConditionContinue( ActionData action_data )
■■return true;
}
■override ActionData CreateActionData()
■■AttachMagazineActionData action_data = new AttachMagazineActionData;
■return action_data;
■override void WriteToContext(ParamsWriteContext ctx, ActionData action_data)
■■super.WriteToContext(ctx, action_data);
■■AttachMagazineActionData action_data_am = AttachMagazineActionData.Cast(action_data);
■■action_data_am.m_ilOldMagazine.WriteToContext(ctx);
```

■override hool ReadFromContext(ParamsReadContext ctx_out ActionReciveData action_recive_data)

```
---- FirearmActionBase.c - START ------
class FirearmActionBase : ActionBase
■void FirearmActionBase()
■override int GetStanceMask(PlayerBase player)
■■return DayZPlayerConstants.STANCEMASK_ALL;
■override int GetActionCategory()
■■return AC_SINGLE_USE;
■override typename GetInputType()
■■return DefaultActionInput;
■override bool ActionConditionContinue( ActionData action_data ) //condition for action
■■Weapon_Base wpn = Weapon_Base.Cast(action_data.m_MainItem);
■■return !wpn.lsldle();
■override bool ActionCondition( PlayerBase player, ActionTarget target, ItemBase item )
■■Weapon_Base wpn = Weapon_Base.Cast(item);
■■return wpn && wpn.CanProcessWeaponEvents() && !player.GetDayZPlayerInventory().IsProcessing();
■override void Start( ActionData action_data )
■■super.Start( action_data );
■■action_data.m_State = UA_PROCESSING;
■}
■override bool CanBePerformedFromInventory()
■return true;
■override bool CanBeUsedOnBack()
■return true;
■override bool CanBeUsedRaised()
■return true;
■override void OnUpdate( ActionData action_data )
```

■■super.OnUpdate(action_data);

■Weapon Base won – Weapon Base Cast(action data m MainItem):

```
----- FirearmActionDetachMagazine.c - START ------
class DetachMagActionReciveData : ActionReciveData
■ref InventoryLocation m_ilMagazine;
class DetachMagActionData: ActionData
■ref InventoryLocation m_ilMagazine;
class FirearmActionDetachMagazine_Old : FirearmActionBase
■void FirearmActionDetachMagazine_Old()
■}■
■override bool HasTarget()
■return true;
■override typename GetInputType()
■■return QuickaBarActionInput;
■override bool CanBePerformedFromQuickbar()
Teturn true;
■override void CreateConditionComponents()
m_ConditionItem = new CCINonRuined();
■■m_ConditionTarget = new CCTSelf;
■override bool HasProgress()
■eturn false;
1
■override bool InventoryReservation( ActionData action_data)
■ Magazine mag = Magazine.Cast(action_data.m_Target.GetObject());
■■InventoryLocation il = new InventoryLocation();
■■if(!action_data.m_Player.GetInventory().FindFreeLocationFor(mag, FindInventoryLocationType.ANY_0
■■ return false:
■■if(!super.InventoryReservation(action_data))
■■return false:
■■DetachMagActionData action_data_dm = DetachMagActionData.Cast(action_data);
■■if(!action_data.m_Player.GetInventory().AddInventoryReservationEx(mag,il,10000))
■■■return false;
■■action_data_dm.m_ReservedInventoryLocations.Insert(il);
```

■■action_data_dm.m_ilMagazine = il;

```
----- FirearmActionLoadBullet.c - START ------
class FirearmActionLoadBullet: FirearmActionBase
■// ■Action events and methods
■void FirearmActionLoadBullet()
■■m_Text = "#load_bullet";
■override int GetActionCategory()
■■return AC_SINGLE_USE;
*string GetTargetDescription()
■■return "default target description";
■/*protected bool ActionConditionContinue( ActionData action_data ) //condition for action
■ return true:
■}*/
■override bool ActionCondition( PlayerBase player, ActionTarget target, ItemBase item ) //condition for ac
■■if (!super.ActionCondition( player, target, item ))
■■return false;
■■HumanCommandWeapons hcw = player.GetCommandModifier_Weapons();■■
■■Magazine mag = Magazine.Cast(target.GetObject());■
■■Weapon_Base wpn = Weapon_Base.Cast(item);
■■return mag && player.GetWeaponManager().CanLoadBullet(wpn,mag) && hcw && hcw.GetRunningAc
■override void Start( ActionData action_data )
■■super.Start( action_data );
■■Magazine mag = Magazine.Cast(action_data.m_Target.GetObject());
■■action_data.m_Player.GetWeaponManager().LoadBullet(mag, this);
|
■override bool CanBePerformedFromInventory()
■ return true;
■override bool CanBePerformedFromQuickbar()
Teturn true;
■// action need first have permission from server before can start
■/*bool UseAcknowledgment()
```

•{

return true:

```
----- FirearmActionLoadMultiBullet.c - START ------
class FirearmActionLoadMultiBullet: FirearmActionBase
■// ■Action events and methods
■void FirearmActionLoadMultiBullet()
■■m_Text = "#load_bullets";
■override int GetActionCategory()
■ return AC_CONTINUOUS;
■/*string GetTargetDescription()
return "default target description";
■/*protected bool ActionConditionContinue( ActionData action_data ) //condition for action
■ return true:
■}*/
■override bool ActionCondition( PlayerBase player, ActionTarget target, ItemBase item ) //condition for ac
■■if (!super.ActionCondition( player, target, item ))
■■return false;
■■Weapon_Base wpn = Weapon_Base.Cast(item);
■■Magazine mag = Magazine.Cast(target.GetObject());
■■return mag && player.GetWeaponManager().CanLoadBullet(wpn,mag);
■override void Start( ActionData action_data )
■■super.Start( action_data );
■■Magazine mag = Magazine.Cast(action_data.m_Target.GetObject());
■■action_data.m_Player.GetWeaponManager().LoadMultiBullet(mag, this);
■override bool CanBePerformedFromInventory()
■■return false;
■override bool CanBeSetFromInventory()
■■return false:
■override void OnEndInput( ActionData action_data )
```

■ action_data.m_Player.GetWeaponManager().LoadMultiBulletStop();

```
----- FirearmActionMechanicManipulate.c - START -------
class FirearmActionMechanicManipulate: FirearmActionBase
■void FirearmActionLoadBulletQuick()
■}■
■override bool HasTarget()
■■return false;
■}
■override typename GetInputType()
■■return WeaponManipulationActionInput;
■override void CreateConditionComponents()
■■m_ConditionItem = new CCINonRuined();
■■m_ConditionTarget = new CCTSelf;
■override bool HasProgress()
■■return false;
■override bool ActionCondition( PlayerBase player, ActionTarget target, ItemBase item ) //condition for ac
■■if (!super.ActionCondition( player, target, item ))
■■■return false;
■■bool result = false;
■■Weapon_Base wpn = Weapon_Base.Cast(item);
■■if (player.GetWeaponManager().CanEjectBullet(wpn))
■■if( GetGame().IsServer() && GetGame().IsMultiplayer() )
 I■■■result = true;
else
  ■■■if( player.GetWeaponManager().CanEjectBulletVerified() )
 I■■■result = true:
■■■■player.GetWeaponManager().SetEjectBulletTryTimestamp();
■ return result;
■override void Start( ActionData action_data )
■■super.Start( action_data );
```

■■action_data_m_Player GetWeanonManager() FiectRulletVerified(this):

```
// ----- FirearmActionUnjam.c - START ------
class FirearmActionUnjam: FirearmActionBase
■void FirearmActionUnjam()
■}■
■override bool HasTarget()
■■return false;
■override typename GetInputType()
■ return Continuous Weapon Manipulation Action Input;
■override void CreateConditionComponents()
■ m_ConditionItem = new CCINonRuined();
■■m_ConditionTarget = new CCTSelf;
■override bool HasProgress()
■■return false;
■override bool ActionCondition( PlayerBase player, ActionTarget target, ItemBase item ) //condition for ac
■■if (!super.ActionCondition( player, target, item ))
■■■return false;
■■Weapon_Base wpn = Weapon_Base.Cast(item);
■■return player.GetWeaponManager().CanUnjam(wpn);
■}
■override void Start( ActionData action_data )
■■super.Start( action_data );
■■action_data.m_Player.GetWeaponManager().Unjam( this );
// ----- FirearmActionUnjam.c - END ------//
// -----
// ----- FireConsumable.c - START ------
```

class FireConsumable

```
// ----- FireConsumableType.c - START ------
class FireConsumableType
■typename ■m_ItemType;
■float ■■m_Energy;
■bool ■■m_lsKindling;
■string ■■m_AttSlot;
■void FireConsumableType (typename item_type, float energy, bool is_kindling, string att_slot)
■■m_ItemType = item_type;
■m_Energy = energy;
■■m_lsKindling = is_kindling;
■■m_AttSlot = att_slot;
■}
■//Item typename
■typename GetItemType()
■■return m_ItemType;
■//Energy
■float GetEnergy()
■■return m_Energy;
■//Is Kindling
■bool IsKindling()
■■return m_lsKindling;
■//Attachment slot
■string GetAttSlot()
■ return m_AttSlot;
■}
// ----- FireConsumableType.c - END ------
/// ----- FireExtinguisher.c - START ------
class FireExtinguisher: Inventory_Base
override void SetActions()
■■super.SetActions();
```

```
// ----- FirefighterAxe.c - START ------
class FirefighterAxe extends ToolBase
■void FirefighterAxe()
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionMineTree);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionMineBush);
■■//AddAction(ActionRepairPart);
■■AddAction(ActionDismantlePart);
■■//AddAction(ActionBuildPart);
■■//AddAction(ActionDestroyPart);
■■//AddAction(ActionSawPlanks);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionSkinning);
■}
}
// ----- FirefighterJacket_ColorBase.c - START ------
class FirefighterJacket_ColorBase extends Clothing
■override void SetActions()
■ super.SetActions();
■■AddAction(ActionWringClothes);
|
class FirefighterJacket_Beige extends FirefighterJacket_ColorBase {};
class FirefighterJacket_Black extends FirefighterJacket_ColorBase {};
// ----- FirefighterJacket_ColorBase.c - END ------
// -----
------ FirefightersHelmet_ColorBase.c - START -------
class FirefightersHelmet_ColorBase extends HelmetBase {};
class FirefightersHelmet_Red extends FirefightersHelmet_ColorBase {};
```

class Firefighters Helmet White extends Firefighters Helmet Color Rase ():

```
// ----- FirefightersPants_ColorBase.c - START ------
class FirefightersPants_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class FirefightersPants_Beige extends FirefightersPants_ColorBase {};
class FirefightersPants_Black extends FirefightersPants_ColorBase \{\};
// ----- FirefightersPants_ColorBase.c - END ------
// ----- Fireplace.c - START ------
class Fireplace extends FireplaceBase
■bool m_ContactEventProcessing;
■void Fireplace()
■■//Particles - default for FireplaceBase
■■PARTICLE_FIRE_START ■= ParticleList.CAMP_FIRE_START;
■■PARTICLE_SMALL_FIRE ■= ParticleList.CAMP_SMALL_FIRE;
■■PARTICLE_NORMAL_FIRE■= ParticleList.CAMP_NORMAL_FIRE;
■■PARTICLE_SMALL_SMOKE ■= ParticleList.CAMP_SMALL_SMOKE;
■■PARTICLE_NORMAL_SMOKE■= ParticleList.CAMP_NORMAL_SMOKE;
■■PARTICLE_FIRE_END ■■= ParticleList.CAMP_FIRE_END;
■■PARTICLE_STEAM_END■■= ParticleList.CAMP_STEAM_2END;
■■SetEventMask( EntityEvent.CONTACT | EntityEvent.TOUCH );
■override bool IsBaseFireplace()
■ return true;
■override void EOnTouch( IEntity other, int extra )
■■ContactEvent( other, GetPosition() );
■override void EOnContact( IEntity other, Contact extra )
■■ContactEvent( other, extra.Position );
■void ContactEvent( IEntity other, vector position )
```

■ ■■if (GetGame() IsServer() && Im. ContactEventProcessing && dBodyIsActive(this) && IIsSetEorDeletion

```
...
// ----- FireplaceBase.c - START ------
enum FireplaceFireState
■NO_FIRE■■■= 1,
■START_FIRE■■= 2,
■SMALL_FIRE■■= 3,■
■NORMAL FIRE■■■= 4,
■END_FIRE■■■= 5
■EXTINGUISHING_FIRE = 6,
■EXTINGUISHED_FIRE = 7,
■REIGNITED_FIRE■■= 8,
■COUNT■■■= 9■■■//for net sync purposes
enum FirePlaceFailure
 ■WIND■■■= 0,
■WET■■■= 1,■
class FireplaceBase extends ItemBase
■//State params
■protected bool m_lsBurning ■■■■■= false;
■protected bool m_HasAshes■■■■■= false;
■protected bool m_lsOven■■■■■= false;
■protected bool m_HasStoneCircle ■■■= false;
■protected bool m_RoofAbove ■■■■■= false;
■protected bool m_NoIgnite ■■■■■= false;
■protected int m_OvenAttachmentsLockState ■■= -1;
■protected FireplaceFireState m_FireState ■= FireplaceFireState.NO_FIRE;
■protected FireplaceFireState m_LastFireState ■= FireplaceFireState.NO_FIRE;■■//for synchronization
■protected vector m_HalfExtents;
■//Fireplace params
■protected float m_TemperatureLossMP■■■■= 1.0;■■//! determines how fast will the fireplace loose its
■protected float m_FuelBurnRateMP■■■■= 1.0;■■//! determines how fast will the fuel item burn before
■//cooking
■protected ref Cooking m_CookingProcess;
■const float PARAM_SMALL_FIRE_TEMPERATURE
■■= 150;■■//! maximum fireplace temperature of a
■const float PARAM_NORMAL_FIRE_TEMPERATURE ■■= 1000;■■//! maximum fireplace temperature ■const float PARAM_MIN_FIRE_TEMPERATURE ■■■= 30;■■//! minimum fireplace temperature under
■const float■PARAM_TEMPERATURE_INCREASE ■■■= 9;■■//! how much will temperature increase v
■const float■PARAM_TEMPERATURE_DECREASE ■■■= 20;■■//! how much will temperature decrease
■const float■PARAM_MAX_WET_TO_IGNITE ■■■= 0.2;■■//! maximum wetness value when the firepla ■const float PARAM_MIN_TEMP_TO_REIGNITE ■■■= 30;■■//! minimum fireplace temperature under value with the fireplace with the fireplace temperature with the fireplace wi
■const float■PARAM_IGNITE_RAIN_THRESHOLD ■■= 0.1;■■//! maximum rain value when the fireplace
■const float■PARAM_BURN_WET_THRESHOLD ■■■= 0.40;■■//! maximum wetness value when the fi
■const float■PARAM_WET_INCREASE_COEF ■■■= 0.02;■■//! value for calculating of wetness that fire statement of the statement o
■const float■PARAM_WET_COOLING_DECREASE_COEF ■= 0.002; ■//! value for calculating wetness I
■const float■PARAM_FIRE_CONSUM_RATE_AMOUNT■■= 0.5;■■//! base value of fire consumption rate const float■PARAM_BURN_DAMAGE_COEF■■■■= 5.0;■■//! value for calculating damage on items I
■const float■PARAM_ITEM_HEAT_TEMP_INCREASE_COEF■= 10;■■//! value for calculating temperate
```

■const float■PARAM ITEM HEAT MIN TEMP■■■ 40:■■//I minimum temperature for items that can be

```
// ----- FireplaceIndoor.c - START ------
class FireplaceIndoor extends FireplaceBase
■protected float ■■■m_SmokePosX;
■protected float ■■■■m_SmokePosY;
■protected float ■■■m_SmokePosZ;
■protected int■■■■m_FirePointIndex = 1; | //limited to 1 decimal place (1-9)
■static const string FIREPOINT_ACTION_SELECTION■= "fireplace_action";
■static const string FIREPOINT_FIRE_POSITION ■= "fireplace_point";
■static const string FIREPOINT_PLACE_ROT ■■= "fireplace_rot";
■static const string FIREPOINT_SMOKE_POSITION ■= "fireplace_smoke";
■void FireplaceIndoor()
•{
■■//Particles - default for FireplaceBase
■■PARTICLE_FIRE_START ■= ParticleList.HOUSE_FIRE_START;
■■PARTICLE SMALL FIRE ■= ParticleList.HOUSE SMALL FIRE:
■■PARTICLE_NORMAL_FIRE■= ParticleList.HOUSE_NORMAL_FIRE;
■■PARTICLE_SMALL_SMOKE ■= ParticleList.HOUSE_SMALL_SMOKE
■■PARTICLE_NORMAL_SMOKE■= ParticleList.HOUSE_NORMAL_SMOKE;
■■PARTICLE_FIRE_END ■■= ParticleList.HOUSE_FIRE_END;
■■PARTICLE STEAM END■■= ParticleList.HOUSE FIRE STEAM 2END:■■
■■//register sync variables
RegisterNetSyncVariableFloat( "m_SmokePosX", 0, 0, 2);
RegisterNetSyncVariableFloat( "m_SmokePosY", 0, 0, 2);
RegisterNetSyncVariableFloat( "m_SmokePosZ", 0, 0, 2);
■■RegisterNetSyncVariableInt( "m_FirePointIndex", 0, 9 );
■■m_LightDistance = 50;
\blacksquare \blacksquare m_RoofAbove = true;
■}
■// ONSTORESAVE/LOAD/AFTERLOAD
■override void OnStoreSave( ParamsWriteContext ctx )
■■super.OnStoreSave( ctx );
■■//fire point name
■■ctx.Write( m_FirePointIndex );
■■//smoke position
■■ctx.Write( m_SmokePosX );
■■ctx.Write( m_SmokePosY );
■■ctx.Write( m_SmokePosZ );
■override bool OnStoreLoad( ParamsReadContext ctx, int version )
■■if(!super.OnStoreLoad( ctx, version ))
■■■return false;
■■//--- Fireplace Indoor data ---
■■//fire point name
■■if (!ctx.Read( m_FirePointIndex ) )
```

```
// ----- FireplaceLight.c - START ------
class FireplaceLight extends PointLightBase
■static float m_FireplaceRadius = 25;
■static float m_FireplaceBrightness = 4.75;
■void FireplaceLight()
■■SetVisibleDuringDaylight(false);
■■SetRadiusTo( m_FireplaceRadius );
■■SetBrightnessTo(m_FireplaceBrightness);
■■SetCastShadow(true):
■■SetFadeOutTime(5);
■■SetDiffuseColor(1.0, 0.5, 0.3);
■SetAmbientColor(1.0, 0.5, 0.3);
■■SetFlareVisible(false);
■■SetFlickerAmplitude(0.3);
■■SetFlickerSpeed(0.9);
■■SetExteriorMode();
■EnableHeatHaze(true);
■■SetHeatHazeRadius(0.23);
■■SetHeatHazePower(0.010);
|
■// Use this mode when the light is in tight space like barrel, chimney or improvsed oven
■void SetInteriorMode()
[
■■SetDancingShadowsMovementSpeed(0.05);
■■SetDancingShadowsAmplitude(0.05);
■}
■// Use this mode when fireplace is on the ground with plenty of space for the light to wiggle around
■void SetExteriorMode()
■{
■■SetDancingShadowsMovementSpeed(0.25);
■■SetDancingShadowsAmplitude(0.10);
■}
■/*override void OnFrameLightSource(IEntity other, float timeSlice)
// ----- FireplaceLight.c - END ------//
// ----- Firewood.c - START -----
class Firewood extends ItemBase
■override void SetActions()
```

```
----- FireworksBase.c - START ------
enum EFireworksState
■DEFAULT,
■PLACED,
■IGNITED,
■FIRING.
■FINISHED
class FireworksBase: Inventory_Base
■protected EFireworksState m_State;
■protected EFireworksState m_StatePrev;
■protected ref Timer m_TimerEvent;
■protected int m_RandomSeed;
■void FireworksBase()
■Init();
■override void EEOnCECreate()
■ StandUp();
■protected void Init();
■override protected void SetActions()
■■super.SetActions();
■■AddAction(ActionTogglePlaceObject);
■■AddAction(ActionDeployObject);
■■AddAction(ActionLightItemOnFire);
■override bool HasFlammableMaterial()
■ return true;
■protected float GetMaxAllowedWetness()
■■return 0.1;
■protected EFireworksState GetState()
■■return m_State;
■protected void SetState(EFireworksState state)
```

■■if (state I- m StatePrey && GetGame() IsServer())

```
// ----- FireworksLauncher.c - START -------
class ExplosionLight: PointLightBase
■void ExplosionLight()
■{
■■SetVisibleDuringDaylight(true);
■■SetRadiusTo(80);
■■SetBrightnessTo(0.05);
■■SetFlareVisible(false);
■■SetAmbientColor(1.0, 1.0, 1.0);
■■SetDiffuseColor(1.0, 1.0, 1.0);
■■SetLifetime(2.1);
■■SetDisableShadowsWithinRadius(-1);
■■SetFadeOutTime(1);
\blacksquarem_FadeInTime = 0.25;
■■SetFlickerSpeed(7);
■■//SetFlickerAmplitude(0.5);
■■SetFlickerAmplitudeMax(3);
■■SetFlickerAmplitudeMin(0);
■}
class FireworksLauncherClientEventBase
■void OnFired();
class FireworksLauncherClientEvent: FireworksLauncherClientEventBase
■protected ref Timer ■■■m_Timer = new Timer();
■protected FireworksLauncher ■m_Item;
■protected int ■■■■■m_Index;
■protected vector■■■m_ExplosionPos;
■protected EffectSound ■■■m_FireSound;
■protected EffectSound ■■■m_ExplosionSound;
■protected ParticleSource ■■m_ParticleShot;
■protected ParticleSource ■■m_ParticleExplosion;
■protected vector ■■■ m_ShotDir;
■protected ExplosionLight ■ m_ExplosionLight;
■protected ParticleSource ■■m_ParticleAfterBurnEnd;
■protected string
■■■m_Color;
■protected int ■■■■■m_RemainingExplosions = GetSecondaryExplosionCount();
■protected ref array<ref FireworksLauncherClientEventBase> m_Events = new ref array</ref
■#ifdef DEVELOPER
■Shape ■■■■■■■■m_ShotTrajectory;
■#endif
■// ----- Tweaking Start-----
■// -----
■protected int GetSoundDelay()
■■return 0;
```

■protected int GetLightDelay()

```
// ----- FishingRod.c - START ------
class FishingRod : FishingRod_Base_New
■void FishingRod()
■override float GetFishingEffectivityBonus()
■■return 0.1;
■override void AnimateFishingRod(bool state)
■■SetAnimationPhase("AnimateRod",state);
■override void SetActions()
■ super.SetActions();
};
// ------
// ----- FishingRod.c - END -------------------//
// ----- FishingRod_Base.c - START ------//
class FishingRod_Base_New : ItemBase
■void FishingRod_Base_New()
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionFishingNew);
■float GetFishingEffectivityBonus()
■ return 0.0;
■override bool IsOpen()
■ireturn false;
```

■void AnimateFishingRod(hool state) ()■

```
// ----- Flag_Base.c - START ------
class Flag_Base extends ItemBase
■void Flag_Base()
■{
■■//synchronized variables
■■//RegisterNetSyncVariableBool( "m_IsMounted" );
■■ShowSelection("folded");
■■HideSelection("unfolded");
■void ~Flag_Base()
■// --- SYNCHRONIZATION
■void Synchronize()
■■if ( GetGame().IsServer() )
■■SetSynchDirty();
■override void OnVariablesSynchronized()
■■super.OnVariablesSynchronized();
■}
■// --- EVENTS
■override void OnStoreSave( ParamsWriteContext ctx )
■■super.OnStoreSave(ctx);
■override bool OnStoreLoad( ParamsReadContext ctx, int version )
■ if (!super.OnStoreLoad(ctx, version))
■■ return false;
Teturn true;
■}
■override void AfterStoreLoad()
■■super.AfterStoreLoad();
■■//set mounted state based on locked slot after everything is loaded
■■//SetMountedState( GetSlotLockedState() );
/*override void OnInventoryEnter(Man player)
■■super.OnInventoryEnter(player);
■■ShowSelection("folded");
```

■■HideSelection("iunfolded"):

```
// ----- Flaregun.c - START ------
enum FLAREAnimState
■COCKED ■■= 0, ■///< default weapon state, closed and discharged</p>
■UNCOCKED ■= 1, ■///< default weapon state, closed and discharged
enum FLAREStableStateID
■UNKNOWN■■■= 0,
\blacksquareEmpty\blacksquare\blacksquare\blacksquare= 1,
■Fireout■■■= 2.
\blacksquareLoaded\blacksquare\blacksquare\blacksquare= 3.
class FLAREEmpty extends WeaponStableState
 ■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {    wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.ŎnExit(e); if (LogManager.IsWeaponLogEnable()) { 
■override int GetCurrentStateID () { return FLAREStableStateID.Empty; }
■override bool HasBullet () { return false; }
■override bool HasMagazine () { return false; }
■ override bool IsJammed () { return false; } ■ override bool IsBoltOpen () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.E}; }
class FLAREFireout extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return FLAREStableStateID.Fireout; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsBoltOpen () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.F}; }
class FLARELoaded extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return FLAREStableStateID.Loaded; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsBoltOpen () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.L}; }
};
class Flaregun: Weapon_Base
■override void InitStateMachine()
■■// setup abilities
■■m_abilities.Insert(new AbilityRecord(WeaponActions.MECHANISM, WeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActi
```

■■m. abilities Insert(new AbilityRecord(WeaponActions MECHANISM, WeaponActionMechanismTypes N

```
....// ----- FlareLight.c - START ------
class FlareLight extends PointLightBase
■static float ■m_FlareRadius = 100;
■static float ■m_FlareBrightness = 10.0;
■static string ■m_MemoryPoint = "light";
■void FlareLight()
■■SetVisibleDuringDaylight( true );
■■SetRadiusTo( m_FlareRadius );
■■SetBrightnessTo( m_FlareBrightness );
■■FadeIn(1);
■■SetFadeOutTime( 0.2 );
■SetDiffuseColor( 0.7, 0.7, 0.3 );
SetAmbientColor( 0.7, 0.7, 0.3);
■■SetFlareVisible( false );
■■SetFlickerAmplitude( 0.9 );
■■SetFlickerSpeed(0.3);
■■SetDancingShadowsMovementSpeed( 0.5 );
■■SetDancingShadowsAmplitude( 0.15 );
■■//SetLifetime(50);
■■EnableLinear(true);
■■EnableHeatHaze( true );
■■SetHeatHazeRadius( 0.1 );
■■SetHeatHazePower( 0.02 );
■■#ifdef PLATFORM_WINDOWS
■■■SetCastShadow( true );
■#else
■■SetCastShadow( false );
■#endif
■}
class FlareLightRed extends FlareLight
■void FlareLightRed()
■■SetDiffuseColor( 1.0, 0.3, 0.3 );
■SetAmbientColor( 1.0, 0.3, 0.3 );
class FlareLightGreen extends FlareLight
■void FlareLightGreen()
■■SetDiffuseColor( 0.3, 1.0, 0.3 );
■SetAmbientColor( 0.3, 1.0, 0.3 );
class FlareLightBlue extends FlareLight
■void FlareLightBlue()
```

■■SetDiffuseColor(0.3, 0.3, 1.0.)

```
----- FlareSimulation.c - START -----
class FlareSimulation: Entity
■protected Particle ■■■m_ParMainFire;
■protected EffectSound ■■m_BurningSound;
■protected FlareLight■m_FlareLight;
■const static float■■MAX FARLIGHT DIST = 40:
■const static float■■■MIN_FARLIGHT_DIST = 5;
■static ref NoiseParams ■■m_NoisePar; // Contains the noise data (template and strength)
■float ■■■■■■■m_LastNoiseTime = -1;
■float ■■■■■■m_NoiseTimer = 0;
■const float ■■■■NOISE_DELAY = 5; // How much time between two consecutive noise pings
■static protected typename ■m_ScriptedLight;
■static protected int ■■m_ParticleId;
■void FlareSimulation()
•{
■■m_ScriptedLight■ = FlareLight;
■■m_ParticleId■ = ParticleList.FLAREPROJ_ACTIVATE;
■void OnActivation(Entity flare)
■■if (!GetGame().IsServer() || !GetGame().IsMultiplayer() )
■■■m_FlareLight = FlareLight.Cast( ScriptedLightBase.CreateLight( m_ScriptedLight, Vector(0,0,0) ) );
■■■if ( m_FlareLight )
■■■m_FlareLight.AttachOnObject( flare );
■■■if (m_ParMainFire)
■■■m_ParMainFire.Stop();
■■■m_ParMainFire = ParticleManager.GetInstance().PlayOnObject( m_ParticleId, flare );
■■m_ParMainFire.SetWiggle(7, 0.3);
■■■flare.PlaySoundSetLoop( m_BurningSound, "roadflareLoop_SoundSet", 0, 0);
| ||
■■if ( GetGame().lsServer() )
■■■// Create and load noise parameters
■■■m_NoisePar = new NoiseParams();
■■■m_NoisePar.LoadFromPath("cfgWeapons Flaregun_Base NoiseFlare");
——}
|}
■void OnTermination(Entity flare)
■■//MiscGameplayFunctions.GenerateAlNoiseAtPosition(flare.GetPosition(), NOISE_DELAY, m_NoisePa
■void OnFire( Entity flare)
■■//m_ParMainFire = ParticleManager.GetInstance().PlayOnObject( ParticleList.FLAREPROJ_FIRE, flare
■■//m_ParMainFire.SetWiggle(7, 0.3);
```

```
// ----- FlashbangEffect.c - START ------
class FlashbangEffect
■protected const float ■■■■■■ALPHA_MIN = 0.0;
■protected const float ■■■■■■ALPHA_MAX = 1.0;
■protected const float ■■■■■■SOUND_DEFER_TIME = 0.4;■■■//! SFX will be played ~0.5s AFTER V
■protected float ■■■■■■■m_HitDuration;
■protected float ■■■■■■m_TimeActive;
■protected float■■■■■■■m_DayTimeToggle;
■protected float■■■■■■■■ AlphaMaxActual; //actual max alpha of the effect
■protected float■■■■■■■■■■ SoundMaxActual; //actual max volume of the sound
■protected float■■■■■■■■■ ProgressMultiplier;
■protected bool■■■■■■■■m_Visual;
■protected bool ■■■■■■■m_Initialized;
■protected PlayerBase ■■■■■■m_Player;
■protected EffectSound ■■■■■■m_FlashbangEffectSound;
■protected float ■■■■■■■m_SoundStopTime;
■protected ref Timer■■■■■■■m_DeferAttenuation;
■protected PPERequester_FlashbangEffects ■m_Requester;
■void FlashbangEffect(PlayerBase player, bool visual = true)
■■m_Player = player;
■■m_Visual = visual;
■■m_Initialized = false;
\blacksquare \blacksquare m_HitDuration = 8.0;
\blacksquare \blacksquare m_BreakPoint = 2.5;
■■m_AlphaMaxActual = ALPHA_MAX;
■■m_SoundMaxActual = 1.0;
■■m_ProgressMultiplier = 1.0;
■■m_FlashbangEffectSound = null;
■■if (m_Visual)
■■■Class.CastTo(m_Requester,PPERequesterBank.GetRequester(PPERequester_FlashbangEffects));
■■m_Requester.Start();
==}
■■m_DeferAttenuation = new ref Timer();
■■m_DeferAttenuation.Run(SOUND_DËFER_TIME, this, "PlaySound", null, false);
■■//! naive time of the day selector
■■m_DayTimeToggle = 5; //! -1: night; 1: day
■■if ( g_Game.GetĎayTime() >= 2Ž.0 || g_Game.GetDayTime() < 7.0 )
■■m_DayTimeToggle = 10;
■■}
```

•}

```
// ----- FlashGrenade.c - START ------
class FlashGrenade extends Grenade_Base
■const float FX_RANGE_MAX_MULT = 1.0;
■override void OnExplosionEffects(Object source, Object directHit, int componentIndex, string surface, ve
■■super.OnExplosionEffects(source, directHit, componentIndex, surface, pos, surfNormal, energyFactor,
■■PlayerBase player = PlayerBase.Cast(GetGame().GetPlayer());
■If (player)
■■{
■■■vector headPos ■■■= player.GetDamageZonePos("Head"); // animated position in the middle of the
■■■float ammoRangeKill■ ■= GetGame().ConfigGetFloat(string.Format("CfgAmmo %1 indirectHitRange
■■■float ammoRangeMaxMult ■= 4.0;
■■■string indirectHitRangeMultiplier = string.Format("CfgAmmo %1 indirectHitRangeMultiplier", ammoTy
■■■if (GetGame().ConfiglsExisting(indirectHitRangeMultiplier))
■■■//! values less than 1.0 make no sense
■■■■ammoRangeMaxMult = Math.Clamp(GetGame().ConfigGetFloat(indirectHitRangeMultiplier), 1.0, flo
■■■}
■■■float ammoRangeMax = ammoRangeKill * ammoRangeMaxMult;
■■■ammoRangeMax = Math.Clamp(ammoRangeMax * FX_RANGE_MAX_MULT, ammoRangeKill, amm
■■■float dist■■= vector.Distance(headPos, pos);
■■■float distSq ■■= vector.DistanceSq(headPos, pos);
■■■float radiusMaxSq = Math.SqrFloat(ammoRangeMax);
■■■if (distSq <= radiusMaxSq)
■■■// ignore collisions with parent if fireplace
Inventoryltem invitem = Inventoryltem.Cast(source);
■■■EntityAl parent = invltem.GetHierarchyParent();
TEMP array<Object> excluded = new array<Object>;
■■■if (!parent || !parent.lsFireplace())
\blacksquare \blacksquare parent = null;
■■■else if (parent)
■■■■excluded.Insert(parent);
■■■■array<ref RaycastRVResult> results = new array<ref RaycastRVResult>;
■■■excluded.Insert(this); //Ignore self for visibility check
■■■//There shouldn't be cases justifying we go further than first entry (if in fireplace, self does not impact
■■■RaycastRVParams rayParams■= new RaycastRVParams(pos, headPos, excluded[0]);
■■■rayParams.flags■■■= CollisionFlags.ALLOBJECTS;
■■■DayZPhysics.RaycastRVProxy(rayParams, results, excluded);
IMP//! removes possible obstacles made by items around the grenade(or on the same position)
■■■array<Object> hitObjects = new array<Object>;
■■■for (int i = 0; i < results.Count(); i++)
■■■■if (results[i].obj && !results[i].obj.lsInherited(ItemBase))
```

■■■■hitObjects.Insert(results[i].obj);

```
// ----- Flashlight.c - START ------
class Flashlight extends ItemBase
■FlashlightLight m_Light;
■static int■■REFLECTOR_ID = 1;
■static int■■GLASS_ID = 2;
■static string ■LIGHT_OFF_GLASS = "dz\\gear\\tools\\data\\flashlight_glass.rvmat";
■static string ■LIGHT_OFF_REFLECTOR = "dz\\gear\\tools\\data\\flashlight.rvmat";
■static string ■LIGHT_ON_GLASS = "dz\\gear\\tools\\data\\flashlight_glass_on.rvmat";
■static string ■LIGHT_ON_REFLECTOR = "dz\\gear\\tools\\data\\flashlight_glass_on.rvmat";
■override void OnWorkStart()
■■if (!GetGame().IsServer() || !GetGame().IsMultiplayer() ) // Client side
■■■m_Light = FlashlightLight.Cast( ScriptedLightBase.CreateLight(FlashlightLight, "0 0 0", 0.08) ); // Po
■■■m_Light.AttachOnMemoryPoint(this, "beamStart", "beamEnd");
}
■■SetObjectMaterial(GLASS_ID, LIGHT_ON_GLASS);
■■SetObjectMaterial(REFLECTOR_ID, LIGHT_ON_REFLECTOR);
■override void OnWork( float consumed_energy )
■■if (!GetGame().IsServer() | !GetGame().IsMultiplayer()) // Client side
■■■Battery9V battery = Battery9V.Cast( GetCompEM().GetEnergySource() );
■■■if (battery && m_Light)
■■■float efficiency = battery.GetEfficiency0To1();
■■■if (efficiency < 1)
  ■■■■m_Light.SetIntensity( efficiency, GetCompEM().GetUpdateInterval() );
}
■■■else
■■■■■m_Light.SetIntensity( 1, 0 );
==}
■}
■override void OnWorkStop()
■■if (!GetGame().IsServer() | !GetGame().IsMultiplayer()) // Client side
■■if (m_Light)
■■■m_Light.FadeOut();
■■■m_Light = NULL;
——}
■■SetObjectMaterial(GLASS ID, LIGHT OFF GLASS):
```

■SetObjectMaterial(REFLECTOR ID LIGHT OFF REFLECTOR):

```
// ----- FlashlightLight.c - START -------
class FlashlightLight extends SpotLightBase
■private static float m_DefaultBrightness = 4;
■private static float m_DefaultRadius = 25;
■void FlashlightLight()
■■SetVisibleDuringDaylight( true );
■■SetRadiusTo( m_DefaultRadius );
■■SetSpotLightAngle( 110 );
■■SetCastShadow( true );
■■EnableSpecular( true );
■■SetBrightnessTo( m_DefaultBrightness );
■■SetFadeOutTime( 0.15 );
■■SetAmbientColor(`0.9, 0.85, 0.75 );
■SetDiffuseColor( 0.9, 0.85, 0.75 );
■}
■void SetIntensity( float coef, float time )
■■FadeBrightnessTo(m_DefaultBrightness * coef, time);
// ----- FlashlightLight.c - END ------
// -----
// ----- FlatCap_ColorBase.c - START ------
class FlatCap_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class FlatCap_Black extends FlatCap_ColorBase {};
class FlatCap_Blue extends FlatCap_ColorBase {};
class FlatCap_Red extends FlatCap_ColorBase {};
class FlatCap_Brown extends FlatCap_ColorBase {};
class FlatCap_Grey extends FlatCap_ColorBase {}; class FlatCap_BrownCheck extends FlatCap_ColorBase {};
class FlatCap_GreyCheck extends FlatCap_ColorBase {};
class FlatCap_BlackCheck extends FlatCap_ColorBase {};
```

```
// ----- Flies.c - START ------
class FliesMdfr: ModifierBase
■const float DISTANCE_SENSITIVITY_SQR = Math.SqrFloat(0.05/*actual distance in meters*/);
■const int TICK_FREQUENCY = 15;
■const int IDLE_COUNT_THRESHOLD = 60;
■vector m PrevPosition:
■int m IdleCount:
■override void Init()
■■m_TrackActivatedTime = false;
■■m ID ■■■■= eModifiers.MDF FLIES;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= TICK_FREQUENCY;
■■DisableActivateCheck();
■■DisableDeactivateCheck():
||
■override bool ActivateCondition(PlayerBase player)
■return false:
■override bool DeactivateCondition(PlayerBase player)
■ return false;
■}
■override void OnTick(PlayerBase player, float deltaT)
■{■
■Ifloat dist_sqr = vector.DistanceSq(player.GetPosition(), m_PrevPosition);
■■if( dist_sqr < DISTANCE_SENSITIVITY_SQR)//has the player stayed still since last check
■■m_IdleCount++;
| | |
■■else
■■■if(m IdleCount >= IDLE COUNT THRESHOLD)//disable the effect
■■■player.m CorpseState = -PlayerConstants.CORPSE STATE DECAYED;
■■■player.SetSynchDirty();
}
■■■m_ldleCount = 0;//player moved, reset the count
m_PrevPosition = player.GetPosition();
■■if( m_ldleCount == IDLE_COUNT_THRESHOLD)//should we play the effect ?
■■■player.m_CorpseState = PlayerConstants.CORPSE_STATE_DECAYED;
■■■player.SetSynchDirty();
```

■override void OnReconnect(PlayerRase player)

```
// ----- FNX45.c - START -----
class FNX45_Base : Pistol_Base
■override RecoilBase SpawnRecoilObject()
■ return new Fnx45Recoil(this);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
GameInventory inventory = GetInventory();
■ inventory.CreateInInventory( "PistolSuppressor");
■ inventory.CreateInInventory( "FNP45_MRDSOptic");
■ inventory.CreateInInventory( "TLRLight");
■ inventory.CreateInInventory( "Battery9V");
■ inventory.CreateInInventory( "Battery9V");
■■SpawnAttachedMagazine("Mag_FNX45_15Rnd");
};
// -----
// ----- FNX45.c - END -----
// ----- Fnx45Recoil.c - START -----
class Fnx45Recoil: RecoilBase
■override void Init()
 vector point_1;
 vector point_2;
■■vector point_3;
■■vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandom
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 1;
 ■■m_MouseOffsetRangeMin = 45;//in degrees min
 ■■m_MouseOffsetRangeMax = 105;//in degrees max
■■m_MouseOffsetDistance = 1.2;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.5;//[0..1] a time it takes to move the mouse the required distance rela
```

■m CamOffsetDistance – 0.04:

```
// ----- FoodPoisonAgent.c - START -----
class FoodPoisonAgent extends AgentBase
■override void Init()
■{
■ Im_Type ■ ■ ■ ■ = eAgents.FOOD_POISON;
■■m Invasibility ■■■= 1;
■■m_TransferabilityIn■■= 1;
■■m_TransferabilityOut■= 0;
■■m_AntibioticsResistance = 0.5;
■■m_MaxCount ■■■= 400;
■■m_Potency ■■■■= EStatLevels.CRITICAL;
■■m_DieOffSpeed ■■■= 1;
■■m_Digestibility ■■= 1:
■}
// ----- FoodPoisonAgent.c - END -----
// -----
// ----- FoodStage.c - START ------
enum FoodStageType
■NONE■■= 0,■■■//food stage not define
■RAW■■■= 1,■■■//default
■BAKED■\blacksquare= 2,
■BOILED■■= 3.
■DRIED■■= 4,
■BURNED■= 5,
\blacksquareROTTEN\blacksquare= 6,
■COUNT■■■■■//for net sync purposes
// Used to make getting data more readable
enum eCookingPropertyIndices
\blacksquareMIN_TEMP \blacksquare= 0,
■COŌK_TIME ■= 1,
■MAX_TEMP ■= 2
class FoodStage
■protected FoodStageType m_FoodStageTypeClientLast;
■protected FoodStageType m_FoodStageType;
■protected Edible_Base m_FoodItem;
■protected int m_SelectionIndex;
■■■//visual properties
■protected int m_TextureIndex;
■protected int m_MaterialIndex;
```

```
// ----- FoxSteakMeat.c - START ------
class FoxSteakMeat extends Edible_Base
■override bool CanBeCooked()
■return true;
■override bool CanBeCookedOnStick()
■ return true;
■override bool IsMeat()
■ return true;
■override bool CanDecay()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatMeat);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
// ----- FoxSteakMeat.c - END ------
// ----- FracturedLegNotfr.c - START ------
class FracturedLegNotfr: NotifierBase
■void FracturedLegNotfr(NotifiersManager manager)
■■m_Active = false;
■override int GetNotifierType()
■ return eNotifiers.NTF_FRACTURE;
```

```
// ----- FreezeState.c - START ------
class FreezeSymptom extends SymptomBase
■//this is just for the Symptom parameters set-up and is called even if the Symptom doesn't execute, don't
■override void OnInit()
■■m_SymptomType = SymptomTypes.PRIMARY;
\blacksquare m_Priority = 1
■■m_ID = SymptomIDs.SYMPTOM_FREEZE;
■■m_DestroyOnAnimFinish = true;
■■m_SyncToClient = false;
■■m_MaxCount = 2;
■//!gets called every frame
■override void OnUpdateServer(PlayerBase player, float deltatime)
■}
■override void OnUpdateClient(PlayerBase player, float deltatime)
■override void OnAnimationPlayFailed()
 ■override bool CanActivate()
 ■■return true;
■//!gets called once on an Symptom which is being activated
■override void OnGetActivatedServer(PlayerBase player)
■■if (LogManager.IsSymptomLogEnable()) Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetActivation of the companion of 
  ■■HùmanMovementState hms = new HumanMovementState();
■■player.GetMovementState(hms);
■■ÎtemBase item = m_Player.GetItemInHands();
■■if(!(item && item.IsHeavyBehaviour()) && m_Manager.GetCurrentCommandID() == DayZPlayerConsta
■■PlayAnimationADD(2);
 ■■}
■else
  ■■■PlaySound(EPlayerSoundEventID.FREEZING);
 }
|
■//!gets called once on a Symptom which is being activated
■override void OnGetActivatedClient(PlayerBase player)
■■if (LogManager.IsSymptomLogEnable()) Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetActivation of the company of the
```

■//lonly gets called once on an active Symptom that is being deactivated

```
// ----- FreezingSoundHandler.c - START ------
class FreezingSoundHandlerBase extends SoundHandlerBase
■override void Init()
■ m_Id = eSoundHandlers.FREEZING;
// Client
class FreezingSoundHandlerClient extends FreezingSoundHandlerBase
■const float SOUND_INTERVALS_LIGHT_MIN = 5; ■const float SOUND_INTERVALS_LIGHT_MAX = 20
■float m_SoundTime;
■EffectSound m_Sound;
■ref HumanMovementState■hms = new HumanMovementState();
■override void Update()
■■if( m_Player.GetShakeLevel() > 0 )
■■■ProcessSound();
==}
■void ProcessSound()
■■m_Player.GetMovementState(hms);
■■if (hms.m_iMovement == DayZPlayerConstants.MOVEMENTIDX_IDLE)
■■ //return;
}
■■if( GetGame().GetTime() > m_SoundTime )
■■■float offset_time = Math.RandomFloatInclusive(SOUND_INTERVALS_LIGHT_MIN, SOUND_INTERV
■■■m_SoundTime = GetGame().GetTime() + offset_time;
■■■PlaySound();
——}
|
■void PlaySound()
■■//Print("-----");
■■m_Player.PlaySoundEvent(EPlayerSoundEventID.FREEZING);
//-----
// Server
class FreezingSoundHandlerServer extends HungerSoundHandlerBase
```

*/

```
// ----- FryingPan.c - START ------
class FryingPan extends Inventory_Base
■// Cooking data
■protected CookingMethodType ■■m_CookingMethod;
■protected bool ■■■■■■m_CookingIsDone;
■protected bool ■■■■■■m_CookingIsEmpty;
■protected bool ■■■■■■m_CookingIsBurned;
■// Particles
■protected Particle ■m_ParticleCooking;
■protected int ■■m_ParticlePlaying ■= ParticleList.INVALID;
■protected int PARTICLE BAKING START ■= ParticleList.COOKING BAKING START:
■protected int PARTICLE_BAKING_DONE
■■= ParticleList.COOKING_BAKING_DONE;
■protected int PARTICLE_DRYING_START ■= ParticleList.COOKING_DRYING_START;
■protected int PARTICLE_DRYING_DONE
■■= ParticleList.COOKING_DRYING_DONE;
■protected int PARTICLE BURNING DONE ■ ParticleList.COOKING BURNING DONE:
■// Sounds
■protected SoundOnVehicle■m_SoundCooking;■//! DEPRECATED
■protected EffectSound■■m_SoundEffectCooking;
■protected string■■■m_SoundPlaying = "";
■const string SOUND_BAKING_START ■= "Baking_SoundSet";■■//! DEPRECATED
■const string SOUND_BAKING_DONE ■■= "Baking_Done_SoundSet"; ■//! DEPRECATED
■const string SOUND_DRYING_START ■= "Drying_SoundSet";■■//! DEPRECATED
■const string SOUND_DRYING_DONE ■■= "Drying_Done_SoundSet"; ■//! DEPRECATED
■const string SOUND_BURNING_DONE ■= "Food_Burning_SoundSet"; ■//! DEPRECATED
■void FryingPan()
■{
■■RegisterNetSyncVariableInt( "m_CookingMethod", CookingMethodType.NONE, CookingMethodType.0
■■RegisterNetSyncVariableBool( "m_CookingIsDone" );
■■RegisterNetSyncVariableBool( "m_CookingIsEmpty" )
■■RegisterNetSyncVariableBool( "m_CookingIsBurned");
■void ~FryingPan() {}
■override bool IsContainer()
■{
■■return true;■■
•}
■override bool CanHaveTemperature()
Teturn true:
■}
■override bool CanPutInCargo(EntityAl parent)
■■if (!super.CanPutInCargo(parent))
Example 1 return false:
■■if(parent && IsCargoException4x3( parent))
■■■return false:
```

Teturn true:

```
// ----- FSMBase.c - START ------
void fsmbDebugPrint (string s)
■//Print("" + s); // comment/uncomment to hide/see debug logs
void fsmbDebugSpam (string s)
 //Print("" + s); // comment/uncomment to hide/see debug spam
/**@class■FSMTransition
    @brief

erepresents transition src ---- event[guard]/action ----|> dst
class FSMTransition<Class FSMStateBase, Class FSMEventBase, Class FSMActionBase, Class FSMGu
■ref FSMStateBase m_srcState;
■ref FSMEventBase m_event; // @NOTE: NULL event means "completion transition" in UML speak
■ref FSMStateBase m_dstState; // @NOTE: NULL dst state == UML terminate pseudonode
■ref FSMActionBase m_action;
■ref FSMGuardBase m_guard;
■void FSMTransition (FSMStateBase src, FSMEventBase e, FSMStateBase dst, FSMActionBase a = NU
■m_srcState = src;
\blacksquare \blacksquare m_{\text{event}} = e;
■m_dstState = dst;
\blacksquare m_action = a;
\blacksquare \blacksquare m_guard = g;
|
};
enum ProcessEventResult
■FSM_OK,
■FSM_TERMINATED,
■FSM_ABORTED.
■FSM_NO_TRANSITION,
};
/**@class■■FSMBase
    @brief■■base class for finite state machine
 * stores current state (m_state) and transition table with possible transitions from each state
 * to another state via event
class FSMBase<Class FSMStateBase, Class FSMEventBase, Class FSMActionBase, Class FSMGuardBase, Class FSMGu
 ■protected ref FSMStateBase m_state; /// current fsm state
■protected ref FSMStateBase m_initialState; /// configurable initial state of the machine
■protected ref FSMEventBase m_initialEvent; /// configurable initial event to start the machine (null by def
■protected ref array<ref FSMTransition<FSMStateBase, FSMEventBase, FSMActionBase, FSMGuardBase
■void FSMBase ()
 ■■m_transitions = new array<ref FSMTransition<FSMStateBase, FSMEventBase, FSMActionBase, FSM</p>
```

■/**@fn■■■GetCurrentState

```
// ----- FuelChainsaw.c - START ------
class FuelChainsaw extends RecipeBase
■override void Init()
[
■ m_Name = "#refuel";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = 0;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Chainsaw");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Pot");//you can insert multiple ingredients this way
■■InsertIngredient(1,"CanisterGasoline");//you can insert multiple ingredients this way
■■InsertIngredient(1,"DisinfectantAlcohol");//you can insert multiple ingredients this way
■InsertIngredient(1, "Canteen");//you can insert multiple ingredients this way
■InsertIngredient(1, "WaterBottle");//you can insert multiple ingredients this way
■InsertIngredient(1, "Vodka");//you can insert multiple ingredients this way
■InsertIngredient(1, "WaterPouch_ColorBase");//you can insert multiple ingredients this way
■■InsertIngredient(1,"Barrel_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[1] = 0;// 0 = do nothing
■ m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
```

■■m ResultInheritsHealth[0] – -1:// (value) – -1 means do nothing: a (value) >– 0 means this result will i

■■m_ResultSetHealth[0] = -1;//-1 = do nothing

```
// ----- FuelStation.c - START ------
class FuelStation extends BuildingSuper
■override bool IsBuilding()
■ return false;
■override bool IsFuelStation()
■ return true;
■override float GetLiquidThroughputCoef()
■ireturn LIQUID_THROUGHPUT_FUELSTATION;
// -----
// ----- FuelStation.c - END -----
// -----
// ----- FurCourierBag.c - START ------//
class FurCourierBag : Clothing {};
// ----- FurCourierBag.c - END -----
// ----- FurImprovisedBag.c - START -------//
class FurImprovisedBag : Clothing {};
// ----- FurImprovisedBag.c - END -----
// -----
// ----- Game.c - START ------
// -----
```

// #include "Scripts/Day7Game c"

```
// ----- gameLib.c - START -----
#ifdef GAME_TEMPLATE
Game g_Game;
Game GetGame()
■return g_Game;
class Game
■ScriptModule GameScript;
■ScriptModule GetScriptModule()
■■return GameScript;
■void SetDebug(bool isDebug) {}
 ■\brief Called when some system event occur.
 ■@param eventTypeId event type.
■@param params Param object, cast to specific param class to get parameters for particular event.
*/
■void OnEvent(EventType eventTypeId, Param params)
■Print("OnEvent");
■\brief Called after full initialization of Game instance
■void OnAfterInit()
■ Print("OnAfterInit");
■}
 ■\brief Called on World update
■@param timeslice time elapsed from last call
■void OnUpdate(float timeslice)
■{
 ■\brief Sets world file to be loaded. Returns false if file doesn't exist.
■@param path Path to the ent file
■@param reload Force reload the world
■proto native bool SetWorldFile(string path, bool reload);
 ■\brief Returns path of world file loaded
```

proto native owned string GetWorldFile();

```
// ----- gameLibComponents.c - START -----
#ifdef COMPONENT_SYSTEM
//Generic components from GameLib (script side of c++ classes)
typedef int[] IEntityComponentSource;
class IEntityComponentSource: BaseContainer
};
//!Entity touch event types
enum TouchEvent
■ON_ENTER,
■ON STAY,
■ON_EXIT
//!Builtin component types
//TypeID MeshObjectTypeID;
//TypeID HierarchyTypeID;
//TypeID RigidBodyTypeID;
//TypeID SphereGeometryTypeID;
//TypeID BoxGeometryTypeID;
class GenericComponent: Managed
* Gets current eventmask of the component.
■* \return Returns bitmask of events the component accepts
■proto native int GetEventMask();
/**
■* Sets eventmask. Component accepts only events which has set bits in eventmask.
■* Bits are or'ed with existing bitmask. See enf::EntityEvents.
■* When this method is called in the constructor of the component, it will not properly set the eventmask to
■* \param mask Mask of those bits, which will be set.
■* \return Returns bitmask of events the component accepts (result of mask|GetEventMask())
■proto native int SetEventMask(IEntity owner, int mask);
/**
■* Clears bitmask. Component accepts only events which has set bits in eventmask.
■* Only bits set in the mask are cleared. See enf::EntityEvents
■* \param mask Mask of those bits, which will be cleared.
*\return returns these bits that were set before and now are cleared.
*/
■proto native int ClearEventMask(IEntity owner, int mask);
* Activate component and calls EOnActivate().
mative void Activate(IEntity owner);
* Deactivate component and calls EOnDectivate().
```

■nroto native void Deactivate(IEntity owner).

```
// ----- gameLibEntities.c - START ------
//Generic entities from GameLib (script side of c++ classes)
#ifdef COMPONENT_SYSTEM
class GenericEntity extends IEntity
■//native method implemented on c++ side
■proto native void Show(bool show);
/*!
■Finds first occurance of the coresponding component.
■\param typeName type of the component
■proto native GenericComponent FindComponent(typename typeName);
■inserts instance of the script component to the entity.
■Calls OnComponentInsert on all entity's components to inform that this new component was inserted. The
■Calls EOnInit on the component if component sets EV_INIT mask.
■Calls EOnActivate on the component if the component is active (default)
■\param component instance
*/
■proto native void InsertComponent(GenericComponent component);
/*!
■Removes component from entity. Doesn't delete the entity.
■Calls EOnDeactivate on the component.
■Calls OnComponentRemove on all entity's components to inform that this new component was removed
■\param component instance
■proto native void RemoveComponent(GenericComponent component);
/*!
■Removes and deletes component from entity.
■Calls EOnDeactivate on the component.
■Calls OnComponentRemove on all entity's components to inform that this new component was removed
■Calls OnDelete on the component.
■\param component instance
■proto native void DeleteComponent(GenericComponent component);
#ifdef WORKBENCH
/*!
■Called after updating world in Workbench. The entity must be selected.
■void _WB_AfterWorldUpdate(float timeSlice) {};
#endif
class GenericWorldEntity extends GenericEntity
class GenericTerrainEntity extends GenericEntity
```

class LightEntity extends GenericEntity

```
// ----- gameplay.c - START -----
/** @file */
/// tree traversal type, for more see http://en.wikipedia.org/wiki/Tree_traversal
enum InventoryTraversalType
■PREORDER,
■INORDER.
■POSTORDER,
■LEVELORDER
const int INDEX_NOT_FOUND = -1;
typedef Serializer ParamsReadContext;
typedef Serializer ParamsWriteContext;
\brief Class for sending RPC over network
■@code
■■// example sending
■■void Send()
■■ScriptRPC rpc = new ScriptRPC();
■■ rpc. Write (645);
■■ rpc. Write ("hello");
\blacksquare array<float> farray = {1.2, 5.6, 8.1};
■■rpc.Write(farray);
■■■rpc.Send(m_Player, ERPCs.RPC_TEST, true, m_Player.GetIdentity());
——}
■■// example receive
■■void OnRPC(ParamsReadContext ctx)
----
■■■int num;
■■■string text;
■■array<float> farray;
■■ctx.Read(num);
■■ ctx.Read(text);
■■ ctx.Read(farray);
|
■@endcode
class JsonSerializer: Serializer
■void JsonSerializer() {}
■void ~JsonSerializer() {}
/**
■\brief Script variable serialization to json string
@param variable_out script variable to be serialized to string
■@param nice if the string should be formated for human readability
```

■ param rice if the string should be formated for human readability
■ @ param result from the serialization, output or error depending on the return value

```
// ----- GameplayEffectWidgets.c - START -----
TODO - doxygen formating
//! grouped gameplay effect widgets and their handling
class GameplayEffectWidgets extends GameplayEffectWidgets_base
■protected ref Widget ■■■■■■■■■■m_Root; //dummy parent node
■protected ref map<int,ref Widget> ■■■■m_Layouts;
■protected ref set<ref Widget> ■■■■■■m_UniqueLayouts;
■protected ref GameplayEffectDataMap
■■■■m_WidgetDataMap
■protected ref set<int> ■■■■■■■■■■■■■■■■ RunningEffectsPrevious;
■protected ref array<int> ■■■■■■■■■■■■■UpdatingEffects;
■protected ref array<ref Widget> ■■■■m_UpdatedWidgetsCheck; //to make sure widgets are not upda
■protected ref array<int> ■■■■■■■■ UpdatedWidgetSetsCheck; //to make sure sets are not updated of
■protected ref set<int> ■■■■■■■■■■■■■■■■SuspendRequests;
■protected ref map<int,typename> ■■■■■m_IDToTypeMap;
■protected float ■■■■■■■■■m_TimeProgBreath;
■protected float ■■■■■■■■■■m_BreathMultStamina;
■protected float ■■■■■■■■■■■■■■■■BreathResidue;
■//UserID's for widget containers that use something different from 'EffectWidgetsTypes' defaults
■protected const int ■■■■■■■■WIDGETSET_BREATH = 100;
■//effect values
Eprotected int  BreathColor;
□ protected float ■■■■■■■■■■■■■■■BreathAlphaVal;
■protected float ■■■■■■■■■m_FlashbangCoverAlphaVal;
■void GameplayEffectWidgets()
■{
■■m_Root = GetGame().GetWorkspace().CreateWidget(FrameWidgetTypeID,0,0,1.0,1.0,WidgetFlags.VI
m_Layouts = new map<int,ref Widget>;
m_UniqueLayouts = new set<ref Widget>;
■■m_WidgetDataMap = new GameplayEffectDataMap;
m_RunningEffects = new set<int>;
m_RunningEffectsPrevious = new set<int>;
__UpdatingEffects = new array<int>;
■■m_UpdatedWidgetsCheck = new array<ref Widget>;
Image: Imag
m_SuspendRequests = new set<int>;
m_IDToTypeMap = new map<int,typename>;
\blacksquare \blacksquare m_TimeProgBreath = 0.0;
■■m_BreathMultStamina = 1.0;
■■PairIDToTypes();
■■RegisterLayouts("gui/layouts/gameplay/CameraEffects.layout",CompileEffectListing());
■■RegisterLayouts("gui/layouts/gameplay/BleedingEffects.layout",{EffectWidgetsTypes.BLEEDING_LAY
 ■■InitWidgetSet(EffectWidgetsTypes.MASK_BREATH,true,WIDGETSET_BREATH);
■■InitWidgetSet(EffectWidgetsTypes.HELMET_BREATH,true,WIDGETSET_BREATH);
■■InitWidgetSet(EffectWidgetsTypes.MOTO_BREATH,true,WIDGETSET_BREATH);
```

■■InitWidgetSet/EffectWidgetsTypes MASK_OCCLUDER false EffectWidgetsTypes MASK_OCCLUDER

```
// ----- GameplayEffectWidgets_base.c - START ------
class GameplayEffectWidgets_base extends Managed
■int m_MaskWidgetUpdateCount;//number of times the widget was updated through a single voice event
void IncreaseMaskUpdateCount(){m_MaskWidgetUpdateCount++};
■void ResetMaskUpdateCount(){m_MaskWidgetUpdateCount = 0};
■bool IsAnyEffectRunning(){}
■bool AreEffectsSuspended(){}
■void AddActiveEffects(array<int> effects){}
■void RemoveActiveEffects(array<int> effects){}
■void StopAllEffects(){}
■void AddSuspendRequest(int request_id){}
■void RemoveSuspendRequest(int request_id){}
■void ClearSuspendRequests(){}
■int GetSuspendRequestCount()({})
■void UpdateWidgets(int type = -1, float timeSlice = 0, Param p = null, int handle = -1){}
■void Update(float timeSlice){}
■void OnVoiceEvent(float breathing_resistance01){}
■void SetBreathIntensityStamina(float stamina_cap, float stamina_current){}
■void RegisterGameplayEffectData(int id, Param p){}
//
// ----- GameplayEffectWidgets_base.c - END -------//
// ------
// -----
// ----- GardenBase.c - START ------//
class GardenBase extends ItemBase //BuildingSuper
■// Paths to slot textures. Slots can have multiple states, so multiple textures must be generated
■static const string SLOT_TEXTURE_DIGGED_WET_LIME■■= "dz\\gear\\cultivation\\data\\soil_digged_
■static const string SLOT_TEXTURE_DIGGED_WET_PLANT■■= "dz\\gear\\cultivation\\data\\soil_digged
■// Wet/dry material
■static const string SLOT_MATERIAL_WET■■■■= "dz\\gear\\cultivation\\data\\soil_cultivated_wet.rvm
■static const string SLOT_MATERIAL_DRY■■■■= "dz\\gear\\cultivation\\data\\soil_cultivated.rvmat";
■static const string SLOT_MATERIAL_LIMED_WET■■■= "dz\\gear\\cultivation\\data\\soil_cultivated_lir
■static const string SLOT_MATERIAL_LIMED_DRY■■■= "dz\\gear\\cultivation\\data\\soil_cultivated_ling"
■ static const string SLOT_MATERIAL_COMPOST_WET■ = "dz\\gear\\cultivation\\data\\soil_cultivated  
■ static const string SLOT_MATERIAL_COMPOST_DRY■ = "dz\\gear\\cultivation\\data\\soil_cultivated  

■// slot names -> MUST BE LOWERCASE
■private static const string SLOT_SELECTION_DIGGED_PREFIX ■= "seedbase_";
■private static const string SLOT_SELECTION_COVERED_PREFIX ■= "slotCovered_";
■private static const string SLOT_MEMORY_POINT_PREFIX ■■= "slot_";
private static const string SLOT_SEEDBASE_PREFIX ■■■= "seedbase_";
```

Inrivate static const int ■CHECK_RAIN_INTERVAL ■■■- 15:

```
// ----- GardenLime.c - START ------
class GardenLime extends ItemBase
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■ cònst int SLOTS ARRAY = 8:
■■bool is_barrel = false;
■■bool is_opened_barrel = false;
■■bool slot_test = true;
■■string slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Plant", "OakBark", "BirchBark", "Nails", "Di
■■// is barrel
■■if (parent.lsKindOf("Barrel_ColorBase"))
■■■is_barrel = true;
| | |
■■// is opened barrel■■■■
■■if (is_barrel && parent.GetAnimationPhase("Lid") == 1)
■■is opened barrel = true;
■■// all of the barrel slots are empty
■■for ( int i = 0; i < SLOTS_ARRAY ; i++ )
■■■if ( parent.FindAttachmentBySlotName(slot_names[i]) != NULL )
■■■slot_test = false;
■■■■break;
——}
■■if ( ( is_opened_barrel && slot_test ) || !is_barrel )
■■{
■ return true;
——}
■■return false;
■}
■override bool CanDetachAttachment( EntityAl parent )
■{
■■bool is_barrel = false;
■■bool is_opened_barrel = false;
■■// is barrel
■■if (parent.lsKindOf("Barrel_ColorBase"))
■■■is_barrel = true;
■■}
■■// is opened barrel■■■■
■■if ( is_barrel && parent.GetAnimationPhase("Lid") == 1 )
```

■■■is_opened_barrel = true;

```
// ----- GardenPlot.c - START ------
class GardenPlot extends GardenBase
■Object ■m_ClutterCutter;
■private const int GARDEN_SLOT_COUNT = 9;
■void GardenPlot()
■■SetBaseFertility(0.5);
■override void EEInit()
■ super.EEInit();
||
■override bool OnStoreLoad( ParamsReadContext ctx, int version )
■■if (!super.OnStoreLoad(ctx, version))
■■ return false:
■■if (!m_ClutterCutter)
■■■m_ClutterCutter = GetGame().CreateObjectEx( "ClutterCutter6x6", GetPosition(), ECE_PLACE_ON_
■■■m_ClutterCutter.SetOrientation( GetOrientation() );
■ return true;
■override void EEDelete(EntityAl parent)
■■super.EEDelete(parent);
■■if (m_ClutterCutter && GetGame())
----
■■■GetGame().ObjectDelete(m_ClutterCutter);
■■m_ClutterCutter = NULL;
|
■override bool IsInventoryVisible()
■ return true;
■override int GetGardenSlotsCount()
■■return GARDEN_SLOT_COUNT;
■void RefreshSlots()
HideSelection("SeedBase_1");
HideSelection("SeedBase_2");
HideSelection("SeedBase_3");
HideSelection("SeedBase_4");
```

■HideSelection("SeedBase_5");
■HideSelection("SeedBase_6");

```
// ----- GasMask.c - START -----
class GasMask extends MaskBase
■override bool CanPutAsAttachment( EntityAl parent )
■■if (!super.CanPutAsAttachment(parent)) {return false;}
■■Clothing headgear = Clothing.Cast(parent.FindAttachmentBySlotName("Headgear"));
■■if ( headgear && headgear.ConfigGetBool("noMask") )
■■■return false;
——}
■■Clothing eyewear = Clothing.Cast(parent.FindAttachmentBySlotName("Eyewear"));
■■if ( eyewear && SportGlasses_ColorBase.Cast(eyewear) )
■ireturn false;
| | |
■■return true;
■override bool IsObstructingVoice()
Teturn true;
■}
■override int GetVoiceEffect()
■ return VoiceEffectObstruction;
■override void EEHealthLevelChanged(int oldLevel, int newLevel, string zone)
■■if (GetGame().IsServer())
■■■if( newLevel == GameConstants.STATE_RUINED )
■■■SetQuantity(0);
——}
——}
// ----- GasMask.c - END ------
// ----- GasMask_Filter.c - START ------
class GasMask_Filter : ItemBase
```

```
// ----- GeneratorSmoke.c - START ------
class EffGeneratorSmoke: EffectParticle
■void EffGeneratorSmoke()
■■SetParticleID(ParticleList.POWER_GENERATOR_SMOKE);
// ----- GeneratorSmoke.c - END -----
// ----- GesturesMenu.c - START -----
enum GestureCategories
■CATEGORIES,■■■■//special category selection
■CATEGORY_1,
■CATEGORY 2.
■CATEGORY_3,
■CATEGORY_4,
■CATEGORY_5
■CONSOLE_GESTURES
class GestureMenuItem
■protected int ■■■■■m_ID;
■protected string ■■■■m_Name;
■protected GestureCategories ■m_Category;
■protected EmoteBase ■■■m_EmoteClass;
■protected bool ■■■■■m_CanPerformEmote;
■//radial menu
■protected Widget ■■■■m_RadialMenuSelector;
■protected Widget■■■m_RadialMenuItemCard;
void GestureMenuItem(int id, string name, GestureCategories category)
■ m_ID■■■ id;
■■m_Name ■■■■= name;
■■m_Category ■■■= category;
■■m_CanPerformEmote ■= true;
■■PlayerBase player;
■■if (Class.CastTo(player,GetGame().GetPlayer()) && category != GestureCategories.CATEGORIES)
■■■m_EmoteClass = player.GetEmoteManager().GetNameEmoteMap().Get(id);
| | |
|
■string GetName()
```

■ return m. Name:

```
----- GEWidgetsMetaData.c - START ------
TODO - doxygen formating
//! generic metadata class
class GameplayEffectsData extends Managed
■protected ref array<ref Widget> ■m_WidgetArray;
■int ■■■■■■■■m_Type;
■int ■■■■■■■■m_WidgetSetIdentifier;
■Widget ■■■■■■■m_LayoutRoot;
■void GameplayEffectsData(array<ref Widget> input, int type, int user_override = -1)
■■m_WidgetArray = input;
\blacksquare \blacksquare m_Type = type;
■■m_WidgetSetIdentifier = type;
■■if (user_override!= -1)
■■m_WidgetSetIdentifier = user_override;
--
■}
■void Init(array<ref Widget> input, int type, Widget layout_root, int user_override = -1)
■m_WidgetArray = input;
\blacksquare \blacksquare m_Type = type;
■■m_WidgetSetIdentifier = type;
■■m_LayoutRoot = layout_root;
■■if (user_override!= -1)
■■m_WidgetSetIdentifier = user_override;
■}
■array<ref Widget> GetWidgetSet()
■■return m_WidgetArray;
■int GetWidgetSetType()
■ return m_Type;
■int GetWidgetSetID()
■■return m_WidgetSetIdentifier;
■//! Returns 'true' if this class contains update info
■bool HasDefinedHandle()
■■return false;
```

•}

```
// ----- GEWidgetsMetaDataBleeding.c - START ------
//! Manages all bleeding indicators and their updates
class GameplayEffectsDataBleeding extends GameplayEffectsData
■protected bool m_Initialized; //tied to initialization of 'BleedingSourcesManagerBase' on player object, ski
■protected bool m_Visible; //overall visibility
■protected ref map<int,ref BleedingIndicator> m_RegisteredInstances;
■protected ref array<int> m_CleanupQueue;
■protected ref array<int> m_RunningIndicators;
■protected int m_LastDropIdx;
■protected int m_ImageWidgetCount; //number of available blood drop image widgets
■protected ref map<int,ref array<float>> m_ProbabilityMap;
■protected ref array<Widget> m_PositioningFramesArray;
■protected Widget m_BloodDropsFrame;
■protected int m_LastPositionFrameUsed;
■void GameplayEffectsDataBleeding(array<ref Widget> input, int type, int user_override = -1)
RegisteredInstances = new map<int,ref BleedingIndicator>;
■■m_CleanupQueue = new array<int>;
■■m_RunningIndicators = new array<int>;
■■m_Initialized = false;
■}
■override void Init(array<ref Widget> input, int type, Widget layout_root, int user_override = -1)
■■super.Init(input, type, layout_root, user_override);
■■m_WidgetArray.ShuffleArray(); //shuffles order of the widgets on every init
■■m_ImageWidgetCount = m_WidgetArray.Count();
■■m_BloodDropsFrame = m_LayoutRoot.FindAnyWidgetById(EffectWidgetsTypes.BLEEDING_LAYER);
■■m_Visible = g_Game.GetProfileOption(EDayZProfilesOptions.BLEEDINGINDICATION);
■■m_BloodDropsFrame.Show(m_Visible);
\blacksquare \blacksquare m_LastDropIdx = -1;
■■m_LastPositionFrameUsed = -1;
 ■■BuildProbabilityData(BleedingIndicationConstants.INDICATOR_SEVERITY_LOW,BleedingIndicationC
■■BuildProbabilityData(BleedingIndicationConstants.INDICATOR_SEVERITY_MEDIUM,BleedingIndicati
■■BuildProbabilityData(BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH,BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH_BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH_BleedingIndicationConstants.INDICATOR_SEVERITY_HIGH_BleedingIndicationConstants.INDICATOR_SEVERITY
■■BuildPositioningData();
■}
■override bool HasDefinedHandle()
Teturn true;
■}
■override bool DataInitialized()
■■return m_Initialized;
■}
■override void RegisterData(Param p)
■■if (m_Initialized)
```

```
// ----- GhillieBushrag_ColorBase.c - START ------
class GhillieBushrag_ColorBase extends Clothing {};
class GhillieBushrag_Tan extends GhillieBushrag_ColorBase {}; class GhillieBushrag_Woodland extends GhillieBushrag_ColorBase {};
class GhillieBushrag_Mossy extends GhillieBushrag_ColorBase {};
// -----
// ----- GhillieBushrag_ColorBase.c - END ------
........ GhillieHood_ColorBase.c - START -------
class GhillieHood_ColorBase extends Clothing {};
class GhillieHood_Tan extends GhillieHood_ColorBase {}; class GhillieHood_Woodland extends GhillieHood_ColorBase {};
class GhillieHood_Mossy extends GhillieHood_ColorBase {};
// -----
// ----- GhillieHood_ColorBase.c - END ------
// -----
// ----- GhillieSuit_ColorBase.c - START -----
class GhillieSuit_ColorBase extends Clothing {};
class GhillieSuit_Tan extends GhillieSuit_ColorBase {};
class GhillieSuit_Woodland extends GhillieSuit_ColorBase {};
class GhillieSuit_Mossy extends GhillieSuit_ColorBase {};
// ----- GhillieSuit_ColorBase.c - END ------
// -----
// ----- GhillieTop_ColorBase.c - START ------
// -----
class GhillieTop_ColorBase extends Clothing {};
class GhillieTop_Tan extends GhillieTop_ColorBase {};
class GhillieTop_Woodland extends GhillieTop_ColorBase {};
class GhillieTop_Mossy extends GhillieTop_ColorBase {};
// ----- GhillieTop_ColorBase.c - END ------
```

```
----- GiftBox_Base.c - START ------
class GiftBox_Base extends Container_Base
■protected vector m_HalfExtents; // The Y value contains a heightoffset and not the halfextent !!!
■void GiftBox_Base()
■■m_HalfExtents = vector.Zero;
■■m_Openable = new OpenableBehaviour(false);
■■RegisterNetSyncVariableBool("m_Openable.m_IsOpened");
■}
■protected ref OpenableBehaviour m_Openable;
■override bool CanReceiveItemIntoCargo( EntityAI item )
■■if(!super.CanReceiveItemIntoCargo(item)) {return false;}
■■if (GameInventory.GetInventoryCheckContext() == InventoryCheckContext.DEFAULT )
■■■if(!GetGame().IsDedicatedServer())
■■■return IsOpen();
■■}
Teturn true;
■override void Open()
■■m_Openable.Open();
■■SetSynchDirty();
■override void Close()
■■m_Openable.Close();
■■SetSynchDirty();
■}
■override bool IsOpen()
■■return m_Openable.lsOpened();
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionUnpackGift);
■override void OnDebugSpawn()
■■EntityAl entity;
■■if ( Class.CastTo(entity, this) )
■■■entity.GetInventory().CreateInInventory( "Chemlight_Green" );■
```

```
....// ----- GiftWrapPaper.c - START ------
class GiftWrapPaper extends ItemBase
■// IGNITION ACTION
■override bool HasFlammableMaterial()
■ return true;
■override bool CanBelgnitedBy( EntityAl igniter = NULL )
■if (GetHierarchyParent()) return false;
■■return true;
■}
■override bool CanIgniteItem( EntityAl ignite_target = NULL )
■ return false;
■override void OnIgnitedTarget( EntityAl ignited_item )
|
■override void OnIgnitedThis( EntityAl fire_source )
■Fireplace.IgniteEntityAsFireplace(this, fire_source);
■override bool IsThisIgnitionSuccessful( EntityAl item_source = NULL )
■ return Fireplace. CanIgnite Entity As Fireplace (this);
■override void SetActions()
■■AddAction(ActionPackGift);
■■super.SetActions();
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
■■AddAction(ActionAttach);
■■AddAction(ActionDetach);
// ----- GiftWrapPaper.c - END ------
```

```
// ----- Glock.c - START ------
class Glock19_Base : Pistol_Base
■override RecoilBase SpawnRecoilObject()
■ return new GlockRecoil(this);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
GameInventory inventory = GetInventory();
■ inventory.CreateInInventory( "PistolSuppressor");
■ inventory.CreateInInventory( "FNP45_MRDSOptic");
■ inventory.CreateInInventory( "TLRLight");
■ inventory.CreateInInventory( "Battery9V");
■ inventory.CreateInInventory( "Battery9V");
■■SpawnAttachedMagazine("Mag_Glock_15Rnd");
};
// -----
// ----- Glock.c - END -----
// ----- GlockRecoil.c - START -----
class GlockRecoil: RecoilBase
■override void Init()
 vector point_1;
 vector point_2;
■■vector point_3;
■■vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncM
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 1;
 ■■m_MouseOffsetRangeMin = 40;//in degrees min
 ■■m_MouseOffsetRangeMax = 90;//in degrees max
■■m_MouseOffsetDistance = 1;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.5;//[0..1] a time it takes to move the mouse the required distance rela
```

■m CamOffsetDistance – 0.04

```
// ----- GoatSteakMeat.c - START ------
class GoatSteakMeat extends Edible_Base
■override bool CanBeCooked()
■return true;
■override bool CanBeCookedOnStick()
■ return true;
■override bool IsMeat()
■ return true;
■override bool CanDecay()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatMeat);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
// ----- GoatSteakMeat.c - END -----
// ----- GorkaEJacket_ColorBase.c - START ------
class GorkaEJacket_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class GorkaEJacket_Summer extends GorkaEJacket_ColorBase {};
class GorkaEJacket_Flat extends GorkaEJacket_ColorBase {};
class GorkaEJacket_Autumn extends GorkaEJacket_ColorBase {}; class GorkaEJacket_PautRev extends GorkaEJacket_ColorBase {}
```

```
// ----- GorkaHelmetComplete.c - START ------
class GorkaHelmet extends HelmetBase
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■ EntityAl entity:
■■if ( Class.CastTo(entity, this) )
entity. GetInventory().CreateInInventory( "GorkaHelmetVisor" );
——}
// ----- GorkaHelmetComplete.c - END ------
// ----- GorkaPants_ColorBase.c - START ------
class GorkaPants_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
■}
class GorkaPants_Summer extends GorkaPants_ColorBase {};
class GorkaPants_Autumn extends GorkaPants_ColorBase {};
class GorkaPants_Flat extends GorkaPants_ColorBase {};
class GorkaPants_PautRev extends GorkaPants_ColorBase {};
// ----- GorkaPants_ColorBase.c - END ------
// -----
// -----
// ----- GP5GasMask.c - START -----
// -----
class GP5GasMask extends MaskBase
■override bool CanPutAsAttachment( EntityAl parent )
■■if (!super.CanPutAsAttachment(parent)) {return false;}
■■Clothing headgear = Clothing.Cast(parent.FindAttachmentBySlotName("Headgear"));
■■if ( headgear && headgear.ConfigGetBool("noMask") )
```

■■return false:

```
// ----- GPSReceiver.c - START ------
class GPSReceiver: ItemGPS
■const string DISPLAY_TEXTURE_PATH_FORMAT ■= "dz\\gear\\navigation\\data\\GPS_%1_ca.paa";
■const string ANIM_PHASE_DISPLAY_HIDE ■■= "DisplayState";
■protected ref set<string> ■■m_DisplayGridSelections;
■protected ref set<string> ■■m_DisplayAltSelections;
■protected ref map<int, string> ■m_DisplayNumericSignTextureMap;
■//! cache
■protected ref array<int> ■■m_OrderedPositionNumbersLast;
■protected ref array<int> ■■m_AltitudeNumbersLast;
■void GPSReceiver()
•{
■■m OrderedPositionNumbersLast ■= new array<int>;
■■m_AltitudeNumbersLast ■■■= new array<int>;
■■int i;
■■for (i = 0; i < MapNavigationBehaviour.DISPLAY_GRID_POS_MAX_CHARS_COUNT * 2; ++i)</p>
■■■m_OrderedPositionNumbersLast.Insert(0);
| | |
■■for (i = 0; i < MapNavigationBehaviour.DISPLAY_ALT_MAX_CHARS_COUNT; ++i)</p>
■■■m_AltitudeNumbersLast.Insert(0);
■ | |
m_DisplayGridSelections = new set<string>();
■■m_DisplayGridSelections.Insert("grid_1_0");
■■m_DisplayGridSelections.Insert("grid_1_1")
■■m_DisplayGridSelections.Insert("grid_1_2")
■■m_DisplayGridSelections.Insert("grid_2_0");
■ m_DisplayGridSelections.Insert("grid_2_1");
■■m_DisplayGridSelections.Insert("grid_2_2");
■■m DisplayAltSelections = new set<string>();
■■m_DisplayAltSelections.Insert("alt_0");
■■m_DisplayAltSelections.Insert("alt_1"
■■m_DisplayAltSelections.Insert("alt_2");
■■m_DisplayAltSelections.Insert("alt_3");
■■m_DisplayNumericSignTextureMap = new map<int, string>();
\blacksquare for (i = -1; i < 11; i++)
■■■string texturePath = string.Format(DISPLAY_TEXTURE_PATH_FORMAT, i);
■■■//! translate numerical -1 to `-` texture
■■■if (i == -1)
■■■texturePath = string.Format(DISPLAY_TEXTURE_PATH_FORMAT, "dash");
```

■■■ DisplayNumericSignTextureMap.Insert(i, texturePath);

```
// ----- GreatHelm.c - START ------
class GreatHelm extends ClothingBase
■override array<int> GetEffectWidgetTypes()
■ return {EffectWidgetsTypes.HELMET_OCCLUDER/*,EffectWidgetsTypes.HELMET_BREATH*/};
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■Clothing eyewear = Clothing.Cast(parent.FindAttachmentBySlotName("Eyewear"));
■■if ( eyewear && eyewear.ConfigGetBool("isStrap") )
■■return false;
--}
■■Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if ( mask && mask.ConfigGetBöol("noHelmet") ) //TODÓ
■■return false;
——}
Teturn true;
■override bool IsObstructingVoice()
■ return true;
■override int GetVoiceEffect()
■ return VoiceEffectObstruction;
// ----- GreatHelm.c - END -----
// ----- GreenBellPepper.c - START ------
class GreenBellPepper: Edible_Base
override bool CanBeCookedOnStick()
■return true;
■override bool CanBeCooked()
```

return true:

```
----- Grenade_Base.c - START ------
enum EGrenadeType
\blacksquareFRAGMENTATION = 0,
■CHEMICAL,
■ILLUMINATING,
■NON LETHAL
//! For backward compatibility
class GrenadeLight : ExplosiveLight {}
class FlashGrenadeLight: PointLightBase
■protected static float m_DefaultBrightness = 50;
■protected static float m_DefaultRadius■= 20;
■void FlashGrenadeLight()
■{
■■SetVisibleDuringDaylight(true);
■■SetRadiusTo(m_DefaultRadius);
■■SetBrightnessTo(m_DefaultBrightness);
■■SetFlareVisible(false);
■■SetAmbientColor(1.0, 1.0, 1.0);
■■SetDiffuseColor(1.0, 1.0, 1.0);
\blacksquareSetLifetime(0.35);
■■SetDisableShadowsWithinRadius(-1);
■}
class Grenade_Base : ExplosivesBase
■protected const float DEFAULT_FUSE_DELAY ■= 10;
■protected ref Timer ■ m_FuseTimer;
protected float■■m_FuseDelay;
■protected float ■■m_RemainingFuseTime;
■protected bool■■■m_Pinned;
■protected bool■■■m Pinnable:
■//protected bool■■m_Explodable;■//! DEPRECATED; not used anywhere
■protected EGrenadeType■m_GrenadeType;
■void Pin()
■■if (!m_Pinned && m_Pinnable)
■■■OnPin();
——}
■void Unpin()
■if (m_Pinned)
■■OnUnpin();
```

```
----- Grenade_ChemGas.c - START ------
class Grenade_ChemGas: Grenade_Base
■protected bool ■■■■m_Exploded;
■protected ParticleSource ■■m_ParticleExploded;
■protected EffectSound ■■■m_ExplosionSound;
■void Grenade_ChemGas()
■■SetParticleExplosion(ParticleList.RGD5);
■■SetGrenadeType(EGrenadeType.CHEMICAL);
■■m_Pinned = false;
■■SetPinnable(false);
\blacksquareArm();
■void ~Grenade_ChemGas();
■override protected void OnExplode()
■m_Exploded = true;
■■if (GetGame().IsServer())
■■■GetGame().CreateObject("ContaminatedArea_Local", GetPosition());
■protected string GetExplosionSoundSet()
■■return "Grenade_detonation_SoundSet";
■override void EOnContact(IEntity other, Contact extra)
■■if (GetGame().IsServer())
----
■■■if (!m_Exploded)
■■■■OnActivateFinished();
| | |
■override void EEKilled(Object killer)
■■super.EEKilled(killer);
■override void OnDamageDestroyed(int oldLevel)
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■■GetGame().GetCallQueue(CALL_CATEGORY_SYSTEM).CallLater(Delete, 1000);
■■#ifndef SERVER
■■ClearFlags(EntityFlags.VISIBLE, false);
```

■■m. ParticleÉxploded – ParticleManager GetInstance() PlayInWorld(ParticleI ist GRENADE, CHEM, BR

```
----- GrozaGL_LowerReceiver.c - START -----
class GrozaGL_LowerReceiver extends ItemBase
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (parent.FindAttachmentBySlotName("weaponMuzzleAK") == NULL)
■■return true;
■■}
■ return true;
// ----- GrozaGL_LowerReceiver.c - END ------
// ----- Groza_Barrel_Grip.c - START ------
class Groza_Barrel_Grip extends SuppressorBase
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (!parent.FindAttachmentBySlotName("weaponButtstockAK").IsKindOf("GrozaGL_LowerReceiver"))
■■■return true;
■ return false;
■}
/// ------ Groza_Barrel_Grip.c - END ------
// ----- Groza_Barrel_Short.c - START ------
class Groza_Barrel_Short extends SuppressorBase
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (!parent.FindAttachmentBySlotName("weaponButtstockAK") | !parent.FindAttachmentBySlotName("
```

■■return true:

```
// ----- Groza_Barrel_Suppressor.c - START ------
class Groza_Barrel_Suppressor extends SuppressorBase
Eoverride bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (!parent.FindAttachmentBySlotName("weaponButtstockAK").IsKindOf("GrozaGL_LowerReceiver"))
 ■■return true:
■■}
■■return false;
// ----- Groza_Barrel_Suppressor.c - END -----
// -----
// ----- Guards.c - START -----
/**@class■WeaponGuardBase
     @brief

erepresents guard on a transition from state to state
class WeaponGuardBase
I /** @fn■■GuardCondition
* @brief enable or disable transition based on condition
 * the guard is a boolean operation executed first and which can prevent the transition from firing by return the first first and the first from fire from firing the first first from fire fro
 * @return
true if transition is allowed
■bool GuardCondition (WeaponEventBase e) { return true; }
class GuardAnd extends WeaponGuardBase
 ■ref WeaponGuardBase m_arg0;
■ref WeaponGuardBase m_arg1;
■void GuardAnd (WeaponGuardBase arg0 = NULL, WeaponGuardBase arg1 = NULL) { m_arg0 = arg0; r
■override bool GuardCondition (WeaponEventBase e)
■bool result = m_arg0.GuardCondition(e) && m_arg1.GuardCondition(e);
■■if (LogManager.lsWeaponLogEnable()) { wpnDebugPrint("[wpnfsm] guard - " + m_arg0.Type() + " && "
■■return result:
■}
};
class GuardNot extends WeaponGuardBase
■ref WeaponGuardBase m_arg0;
```

```
// ----- Guts.c - START ------
class Guts extends Edible_Base
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■ cònst int SLOTS ARRAY = 8:
■■bool is_barrel = false;
■■bool is_opened_barrel = false;
■■bool slot_test = true;
■■string slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Nails", "OakBark", "BirchBark", "Lime", "Dis
■■// is barrel
■■if (parent.lsKindOf("Barrel_ColorBase"))
■■■is_barrel = true;
| | |
■■// is opened barrel■■■■
■■if (is_barrel && parent.GetAnimationPhase("Lid") == 1)
■■■is_opened_barrel = true;
■■// all of the barrel slots are empty
■■for ( int i = 0; i < SLOTS_ARRAY ; i++ )
■■■if ( parent.FindAttachmentBySlotName(slot_names[i]) != NULL )
■■■slot_test = false;
■■■■break;
——}
■■if ( ( is_opened_barrel && slot_test ) || !is_barrel )
■■{
■ return true;
--
■■return false;
■}
■override bool CanDetachAttachment( EntityAl parent )
■{
■■bool is_barrel = false;
■■bool is_opened_barrel = false;
■■// is barrel
■■if (parent.lsKindOf("Barrel_ColorBase"))
■■■is_barrel = true;
■■}
■■// is opened barrel■■■■
■■if ( is_barrel && parent.GetAnimationPhase("Lid") == 1 )
■■■is_opened_barrel = true;
```

```
// ----- GuyFawkesMask.c - START ------
class GuyFawkesMask extends ClothingBase
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■bool headgear_present = false;
■■if ( parent.FindAttachmentBySlotName( "Headgear" ) )
■■■headgear_present = parent.FindAttachmentBySlotName( "Headgear" ).ConfigGetBool( "noMask" );
| ||
■■if ( ( GetNumberOfItems() == 0 || !parent || parent.lsMan() ) && !headgear_present )
■■return true;
■■}
■ return false;
// ----- GuyFawkesMask.c - END ------
// ----- Hacksaw.c - START ------
// -----
class Hacksaw extends ToolBase
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionMineBush);
■■AddAction(ActionSawPlanks);
■■AddAction(ActionDismantlePart);
■■//AddAction(ActionDestroyCombinationLock);
■■//AddAction(ActionDestroyPart);
■■AddAction(ActionSkinning);
■■AddAction(ActionMineTreeBark);
// ----- Hacksaw.c - END ------
// -----
```

```
// ----- Hammer.c - START ------
class Hammer extends Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionRepairPart);
■■AddAction(ActionMineRock1H);
■■AddAction(ActionBuildPart);
■}
// ----- Hammer.c - END -------//
// ----- HandAnimatedForceSwapping.c - START ------
// When editing this, take a look at HandAnimatedMoveToDst_W4T_Basic as well
// They can not be inherited from each other because of different inheritance
class HandAnimatedMoveToDst_W4T_Basic extends HandStateBase
■ref InventoryLocation m_Dst;
■override void OnEntry(HandEventBase e)
■■Man player = e.m_Player;
■■if (m_Dst && m_Dst.IsValid())
■■■EntityAl item = m_Dst.GetItem();
■■■InventoryLocation src = new InventoryLocation;
■■■if (item.GetInventory().GetCurrentInventoryLocation(src))
■■■if (GameInventory.LocationCanMoveEntity(src, m_Dst))
■■■■GameInventory.LocationSyncMoveEntity(src, m_Dst);
■■■player.OnItemInHandsChanged();
■■■else
■■■■#ifdef DEVELOPER
■■■■if(LogManager.lsInventoryHFSMLogEnable())
■■■■■Debug.InventoryHFSMLog("[hndfsm] HandAnimatedMoveToDst_W4T_Basic - not allowed");
■■■■#endif
}
■■■■Error("[hndfsm] " + Object.GetDebugName(e.m_Player) + " STS = " + e.m_Player.GetSimulationTir
```

■■Error("[hndfsm] Hand∆nimatedMoveToDst_W4T_Rasic - event has no valid m_Dst"):

else

```
----- HandAnimatedMovingToAtt.c - START ------
class HandStartHidingAnimated extends HandStartAction
■void HandStartHidingAnimated(Man player = null, HandStateBase parent = null, WeaponActions action =
■override void OnEntry(HandEventBase e)
■■super.OnEntry(e);
■override void OnAbort(HandEventBase e)
■■super.OnAbort(e);
■override void OnExit(HandEventBase e)
■■super.OnExit(e);
■override bool IsWaitingForActionFinish() { return m_ActionType == -1; }
// When editing this, take a look at HandAnimatedMoveToDst_W4T_Basic as well
// They can not be inherited from each other because of different inheritance
class HandAnimatedMoveToDst_W4T extends HandStartAction
■ref InventoryLocation m_Dst;
■override void OnEntry(HandEventBase e)
■■Man player = e.m_Player;
■■if (m_Dst && m_Dst.IsValid())
■■■EntityAl item = m Dst.GetItem();
■■InventoryLocation src = new InventoryLocation;
■■■if (item.GetInventory().GetCurrentInventoryLocation(src))
■■■if (GameInventory.LocationCanMoveEntity(src, m_Dst))
■■■■■GameInventory.LocationSyncMoveEntity(src, m_Dst);
■■■player.OnItemInHandsChanged();
---}
■■■else
  ■■■#ifdef DEVELOPER
■■■■if ( LogManager.lsInventoryHFSMLogEnable() )
■■■■■Debug.InventoryHFSMLog("[hndfsm] HandAnimatedMoveToDst_W4T - not allowed");
■■■■#endif
}
■■■■Error("[hndfsm] " + Object.GetDebugName(e.m_Player) + " STS = " + e.m_Player.GetSimulationTir
else
```

■■Error("[hndfsm] Hand∆nimatedMoveToDst_W4T - event has no valid m_Dst"):

```
class HandSwappingAnimated_Show extends HandForceSwappingAnimated_Show
};
class HandAnimatedSwapping extends HandStateBase
■ref InventoryLocation m_Src1 = null;
■ref InventoryLocation m_Src2 = null;
■ref InventoryLocation m_Dst1 = null;
■ref InventoryLocation m_Dst2 = null;
■ref HandStartHidingAnimated m_Hide;
■ref HandSwappingAnimated_Show m_Show;
■void HandAnimatedSwapping(Man player = null, HandStateBase parent = null)
•{
■■// setup nested state machine
■■m_Hide = new HandStartHidingAnimated(player, this, WeaponActions.HIDE, -1);
■■m_Show = new HandSwappingAnimated_Show(player, this, WeaponActions.SHOW, -1);
■■// events:
■■HandEventBase _fin_ = new HandEventHumanCommandActionFinished;
■■HandEventBase _AEh_ = new HandAnimEventChanged;
■■m_FSM = new HandFSM(this); // @NOTE: set owner of the submachine fsm
■■m FSM.AddTransition(new HandTransition( m_Hide, _AEh_, m_Show ));
■■m_FSM.AddTransition(new HandTransition( m_Show, _fin_,
                                                                null ));
■■m_FSM.SetInitialState(m_Hide);
■override void OnEntry(HandEventBase e)
■■HandEventSwap es = HandEventSwap.Cast(e);
■■if (es)
----
\blacksquare \blacksquare m_Src1 = es.GetSrc();
\blacksquare \blacksquare \blacksquare m\_Src2 = es.m\_Src2;
\blacksquare \blacksquare \blacksquare m_Dst1 = es.GetDst();
\blacksquare \blacksquare \blacksquare m_Dst2 = es.m_Dst2;
■■■m_Show.m_Src1 = m_Src1;
\blacksquare m_Show.m_Src2 = m_Src2;
■■■m Show.m Dst1 = m Dst1;
\blacksquare m_Show.m_Dst2 = m_Dst2;
■■■m_Hide.m_ActionType = es.m_AnimationID;
■■■m_Show.m_ActionType = es.m_Animation2ID;
■■■if (!GetGame().IsDedicatedServer())
 ■■■e.m_Player.GetHumanInventory().AddInventoryReservationEx(m_Dst2.GetItem(), m_Dst2, GameIr
■■■■e.m_Player.GetHumanInventory().AddInventoryReservationEx(m_Dst1.GetItem(), m_Dst1, GameIr
```

```
----- HandAnimatedTakingFromAtt.c - START ------
class HandTakingAnimated_Hide extends HandStartAction
class HandTakingAnimated_Show extends HandStartAction
■ref InventoryLocation m_Src;
■ref InventoryLocation m_Dst;
■void HandTakingAnimated_Show(Man player = null, HandStateBase parent = null, WeaponActions actio
■m_Src = null;
■■m Dst = null;
■override void OnEntry(HandEventBase e)
■super.OnEntry(e);
■■if (m_Src)
■■if (m_Src.IsValid())
■■■#ifdef DEVELOPER
■■■if (LogManager.IsInventoryHFSMLogEnable())
■■■■Debug.InventoryHFSMLog("Action - STS = " + e.m_Player.GetSimulationTimeStamp(), e.ToString
■■■#endif
■■■//if (GameInventory.LocationCanMoveEntity(m_Src, m_Dst))
■■■■GameInventory.LocationSyncMoveEntity(m_Src, m_Dst);
■■■■■e.m_Player.OnItemInHandsChanged();
■■■■//else
 I■■■//■hndDebugPrint("[hndfsm] HandTakingAnimated_Show - not allowed");
■■■■//}
 ∎∎else
■■■■Error("[hndfsm] " + Object.GetDebugName(e.m_Player) + " STS = " + e.m_Player.GetSimulationTir
■■■Error("[hndfsm] HandTakingAnimated_Show, error - m_Src not configured");
■}
■override void OnAbort(HandEventBase e)
\blacksquare m_Src = null;
\blacksquarem Dst = null;
■■super.OnAbort(e);
■}
■override void OnExit(HandEventBase e)
```

■ Src - null:

```
----- HandAnimated Guards.c - START ------
int SlotToAnimType(notnull Man player, notnull InventoryLocation src, InventoryLocation dst = null)
//Print("src.GetType() " + src.GetType());
■InventoryLocation invloc1 = new InventoryLocation;
//InventoryLocation invloc2 = new InventoryLocation;
■if ( (dst && dst.GetParent() && !dst.GetParent().GetHierarchyRootPlayer()) || (src && src.GetParent() &&
■■return -1;
■if (dst && (dst.GetType() == InventoryLocationType.ATTACHMENT || dst.GetType() == InventoryLocatio
■■invloc1.Copy(dst);
■■//invloc2.Copy(src);
■else if (src.GetType() == InventoryLocationType.ATTACHMENT || src.GetType() == InventoryLocationTy
■■invloc1.Copy(src);
■■//invloc2.Copy(dst);
else
■■return -1;
■int val = -1;
■if(invloc1.GetItem() && invloc1.GetItem().GetInventoryHandAnimation(invloc1,val))
■■return val;
■if (invloc1.GetType() == InventoryLocationType.ATTACHMENT /*|| src.GetType() == InventoryLocationT
■ //return WeaponHideShowTypes.HIDESHOW_SLOT_KNIFEBACK;
■■switch (invloc1.GetSlot())
■■■case InventorySlots.SHOULDER:
 I■■■if (invloc1.GetItem() && invloc1.GetItem().IsWeapon())
  ■■■return WeaponHideShowTypes.HIDESHOW_SLOT_RFLLEFTBACK;
 I■■■else if (invloc1.GetItem() && invloc1.GetItem().IsOneHandedBehaviour())
  I■■■return WeaponHideShowTypes.HIDESHOW_SLOT_1HDLEFTBACK;
  I■■return WeaponHideShowTypes.HIDESHOW_SLOT_2HDLEFTBACK;
  ■case InventorySlots.MELEE:
■■■■if (invloc1.GetItem() && invloc1.GetItem().IsWeapon())
  I■■■return WeaponHideShowTypes.HIDESHOW_SLOT_RFLRIGHTBACK;
   ■■else if (invloc1.GetItem() && invloc1.GetItem().IsOneHandedBehaviour())
    ■■return WeaponHideShowTypes.HIDESHOW_SLOT_1HDRIGHTBACK;
```

■■■return WeaponHideShowTypes HIDESHOW SLOT 2HDRIGHTRACK:

```
// ----- HandcuffKeys.c - START ------
class HandcuffKeys: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionUnrestrainTarget);
};
...
// ----- HandcuffKeys.c - END -------
// ----- Handcuffs.c - START -----
class Handcuffs: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionRestrainTarget);
■■AddAction(ActionRestrainSelf);
■}
};
// ----- Handcuffs.c - END ------//
// ----- HandcuffsLocked.c - START -----
class RestrainingToolLocked extends ItemBase
■void ~RestrainingToolLocked()
■PlayerBase player = PlayerBase.Cast(GetHierarchyRootPlayer());
■■if (player && player.IsRestrained())
■■■player.SetRestrained(false);
| ||
```

■override void EEItemLocationChanged(notnull InventoryLocation oldLoc, notnull InventoryLocation newL

```
// ----- HandDrillKit.c - START ------
class HandDrillKit extends ItemBase
■//! Override this method and and check if the given item can be ignited. It is not necesarry to check here
■override bool CanIgniteItem( EntityAl ignite_target = NULL )
■ return true;
■override void OnIgnitedTarget( EntityAl ignited_item )
■■if ( GetGame().IsServer() )
■■DecreaseHealth(20);
||
■override void OnIgnitedTargetFailed( EntityAl target_item )
■■if ( GetGame().IsServer() )
■■DecreaseHealth(20);
| | |
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionLightItemOnFire);
/*
■override bool IsTargetIgnitionSuccessful( EntityAl item_target = NULL )
|}
*/
// ----- HandDrillKit.c - END ------
// -----
// -----
// ----- HandFSM.c - START ------
void hndDebugPrint (string s)
#ifdef INV_DEBUG
■PrintToRPT("" + s); // comment/uncomment to hide/see debug logs
■//Print("" + s); // comment/uncomment to hide/see debug logs
```

void hndDehugSnam (string s)

```
----- HandReplacingItemElsewhereWithNewInHands.c - START ------
class HandStartReplacingItemElsewhereWithNewInHands extends HandStateBase
■void HandStartReplacingItemElsewhereWithNewInHands (Man player = NULL, HandStateBase parent =
[ }
■override void OnEntry (HandEventBase e)
■■super.OnEntry(e);
■■Man player = e.m_Player;
■■HandEventReplaceWithNewBase edr = HandEventReplaceWithNewBase.Cast(e);
■■if (edr)
■■■hndDebugPrint("[hndfsm] HandStartReplacingItemElsewhereWithNewInHands about to execute laml
■■■HumanInventoryWithFSM inv = HumanInventoryWithFSM.Cast(player.GetInventory());
■■■edr.m_Lambda.Execute(inv);
■■return;
■■else
■override void OnAbort (HandEventBase e)
■■super.OnAbort(e);
■override void OnExit (HandEventBase e)
■■super.OnExit(e);
■override bool IsWaitingForActionFinish () { return true; }
class HandReplacingItemElsewhereWithNewInHands extends HandStateBase
■ref HandStartReplacingItemElsewhereWithNewInHands m_Replacing;
■void HandReplacingItemElsewhereWithNewInHands (Man player = NULL, HandStateBase parent = NUI
■ | // setup nested state machine
■■m_Replacing = new HandStartReplacingItemElsewhereWithNewInHands(player, this);
■■// events:
■■HandEventBase _fin_ = new HandEventHumanCommandActionFinished;
■■m_FSM = new HandFSM(this); // @NOTE: set owner of the submachine fsm
■■m_FSM.AddTransition(new HandTransition( m_Replacing, _fin_,
                                                            NULL ));
■■m_FSM.SetInitialState(m_Replacing);
```

};

```
----- HandReplacingItemInHands.c - START ------
class HandStartReplacingItemInHands extends HandStateBase
■void HandStartReplacingItemInHands (Man player = NULL, HandStateBase parent = NULL)
[ }
■override void OnEntry (HandEventBase e)
■super.OnEntry(e);
■■Man player = e.m_Player;
■■EntityAl itemInHands = player.GetHumanInventory().GetEntityInHands();
■■InventoryLocation src = new InventoryLocation;
■■if (itemInHands.GetInventory().GetCurrentInventoryLocation(src))
■■■HandEventDestroyAndReplaceWithNew edr = HandEventDestroyAndReplaceWithNew.Cast(e);
■■■if (edr)
  ■■■hndDebugPrint("[hndfsm] HandStartReplacingItemInHands about to execute lambda");
■■■HumanInventoryWithFSM inv = HumanInventoryWithFSM.Cast(player.GetInventory());
■■■edr.m_Lambda.Execute(inv);
■■■//player.GetItemAccessor().OnItemInHandsChanged();
■■■return;
}
■■else
■■■■Error("[hndfsm] HandStartReplacingItemInHands - not a HandEventDestroyAndReplaceWithNew e
■■■Error("[hndfsm] HandStartReplacingItemInHands - itemInHands has no InventoryLocation");
■override void OnAbort (HandEventBase e)
■■super.OnAbort(e);
■}
■override void OnExit (HandEventBase e)
■■super.OnExit(e);
■override bool IsWaitingForActionFinish () { return true; }
class HandReplacingItemInHands extends HandStateBase
■ref HandStartReplacingItemInHands m_Replacing;
■void HandReplacingItemInHands (Man player = NULL, HandStateBase parent = NULL)
// setup nested state machine
■■m_Replacing = new HandStartReplacingItemInHands(player, this);
III// events:
■■HandEventBase _fin_ = new HandEventHumanCommandActionFinished;
```

```
// ----- Hands.c - START ------
class MaleHands_Base extends InventoryItem {};
class FemaleHands_Base extends InventoryItem {};
class MaleAdamHands extends MaleHands_Base {};
class MaleBorisHands extends MaleHands_Base {};
class MaleCyrilHands extends MaleHands_Base {};
class MaleDenisHands extends MaleHands_Base {};
class MaleEliasHands extends MaleHands_Base {};
class MaleFrancisHands extends MaleHands_Base {};
class MaleGuoHands extends MaleHands_Base {};
class MaleHassanHands extends MaleHands_Base {};
class MaleIndarHands extends MaleHands_Base {};
class MaleJoseHands extends MaleHands_Base {};
class MaleKaitoHands extends MaleHands_Base {};
class MaleLewisHands extends MaleHands_Base {}
class MaleManuaHands extends MaleHands_Base {};
class MaleNikiHands extends MaleHands_Base {};
class MaleOliverHands extends MaleHands_Base {};
class MalePeterHands extends MaleHands_Base {};
class MaleQuinnHands extends MaleHands_Base {};
class MaleRolfHands extends MaleHands_Base {};
class MaleSethHands extends MaleHands_Base {};
class MaleTaikiHands extends MaleHands_Base {};
class MaleDeanHands extends MaleHands_Base {};
class FemaleEvaHands extends FemaleHands_Base {};
class FemaleFridaHands extends FemaleHands_Base {};
class FemaleGabiHands extends FemaleHands_Base {};
class FemaleHelgaHands extends FemaleHands_Base {};
class FemaleIrenaHands extends FemaleHands_Base {};
class FemaleJudyHands extends FemaleHands_Base {};
class FemaleKeikoHands extends FemaleHands_Base {};
class FemaleLindaHands extends FemaleHands_Base {};
class FemaleMariaHands extends FemaleHands_Base {};
class FemaleNaomiHands extends FemaleHands_Base {};
//
// ----- Hands.c - END ------/
// ------
...
// ----- HandsArea.c - START -------//
// -----
class HandsArea: Container
■protected ScrollWidget■■m_Scroller;
■protected ref HandsContainer
■m_HandsContainer;
■protected ref SizeToChild■■m_HandsResizer;
■protected bool■■■■■m_ShouldChangeSize = true;
■void HandsArea( LayoutHolder parent )
```

■m HandsContainer – new HandsContainer(this)·

```
// ----- HandSaw.c - START ------
class HandSaw: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionMineBush);
■■AddAction(ActionSawPlanks);
■■AddAction(ActionDismantlePart);
■■//AddAction(ActionDestroyCombinationLock);
■■//AddAction(ActionDestroyPart);
■■AddAction(ActionSkinning);
■■AddAction(ActionMineTreeBark);
};
// -----
// ----- HandSaw.c - END ------
// -----
// ----- HandsContainer.c - START ------//
class HandsContainer: Container
protected bool
■protected ref HandsHeader■■■■■■■■ CollapsibleHeader;
■protected ref HandsPreview■■■■■■■■■ HandsPreview;
■protected ref CargoContainer
■■■■■■■ CargoGrid;
■protected ref map<EntityAl, ref CargoContainer>■■■m_AttachmentCargos;
■protected ref map<EntityAl, AttachmentsWrapper>■■■m_AttachmentAttachmentsContainers;
■protected ref map<EntityAl, ref Attachments>■■■m_AttachmentAttachments;
protected ref array<int>
Image: The content of the
■protected ScrollWidget■■■■■■■■■■ScrollWidget;
■void HandsContainer( LayoutHolder parent )
■■m_AttachmentCargos■■■■= new map<EntityAl, ref CargoContainer>;
■■m_AttachmentAttachmentsContainers■= new map<EntityAl, AttachmentsWrapper>;
■■m_AttachmentAttachments■■■= new map<EntityAl, ref Attachments>;
■■m_CollapsibleHeader = new HandsHeader( this, "CollapseButtonOnMouseButtonDown" );
■■GetMainWidget().SetFlags(WidgetFlags.IGNOREPOINTER);
■■m_MainWidget = m_MainWidget.FindWidget( "body" );
■■GetMainWidget() SetFlags( WidgetFlags IGNOREPOINTER );
```

```
----- HandsCover improvised.c - START ------
class HandsCover_Improvised extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- HandsCover_improvised.c - END ------
// ----- HandsHeader.c - START ------
class HandsHeader: Header
■protected bool■■m_ForceHideCollapseButtons;
■protected Widget m_ItemHeader;
■void HandsHeader( LayoutHolder parent, string function_name )
■■m_DefaultFontSize■= 24;
■■m_ItemHeader■■= m_MainWidget.FindAnyWidget( "hands_item_header" );
■■m_MainWidget■■= GetMainWidget().FindAnyWidget( "height_wrapper" );
■■m_DefaultColor■■= GetMainWidget().GetColor();
##ifdef PLATFORM_CONSOLE
■■ShowCollapseButtons(false, true);
■#endif
■override void SetLayoutName()
m_LayoutName = WidgetLayoutName.HandsHeader;
■override void UpdateInterval()
■ PlayerBase p = PlayerBase.Cast( GetGame().GetPlayer() );
■■if (!p)
■■return:
■■EntityAl item = p.GetHumanInventory().GetEntityInHands();
■■if (!m_ForceHideCollapseButtons)
■■■if ( item && !item.GetInventory().IsInventoryLockedForLockType( HIDE_INV_FROM_SCRIPT ) && ite
 ■■■ShowCollapseButtons( true );
■■else
```

[

```
....// ----- HandShivers.c - START ------
class HandShiversSymptom extends SymptomBase
■int m_ShakeLevel;
■//this is just for the Symptom parameters set-up and is called even if the Symptom doesn't execute, don't
■override void OnInit()
■■m_SymptomType = SymptomTypes.SECONDARY;
\blacksquare m_Priority = 0;
■■m_ID = SymptomIDs.SYMPTOM_HAND_SHIVER;
■■m_SyncToClient = false;
■}
■override void SetParam(Param p)
■■Param1<int> p1 = Param1<int>.Cast(p);
■if (p1)
■■m_ShakeLevel = p1.param1;
■■■if ( m_ShakeLevel > PlayerBase.SHAKE_LEVEL_MAX )
■■■m_ShakeLevel = PlayerBase.SHAKE_LEVEL_MAX;
}
■override void OnUpdateClient(PlayerBase player, float deltatime)
■override void OnGetActivatedServer(PlayerBase player)
■■player.SetShakesForced(m_ShakeLevel);
■}
■override void OnGetDeactivatedServer(PlayerBase player)
■■player.SetShakesForced(0);
■override void OnGetActivatedClient(PlayerBase player)
■//!only gets called once on an active Symptom that is being deactivated
■override void OnGetDeactivatedClient(PlayerBase player)
```

```
----- HandsPreview.c - START ------
class HandsPreview: Container
■protected ref lcon m_lcon;
■protected EntityAl m_AttachmentsInitialized;
■protected float■m_lconSize;
■protected ItemBase■m_Item
■void HandsPreview( LayoutHolder parent )
■■GetGame().GetPlayer().GetOnItemAddedToHands().Insert( CreateNewIcon );
■■GetGame().GetPlayer().GetOnItemRemovedFromHands().Insert( DeleteIcon );
■void ~HandsPreview()
■■GetGame().GetPlayer().GetOnItemAddedToHands().Remove( CreateNewIcon );
■■GetGame().GetPlayer().GetOnItemRemovedFromHands().Remove(DeleteIcon);
void RefreshQuantity( EntityAl m_Item_to_refresh )
■■if ( m_lcon )
•
■■■m_lcon.SetQuantity();
——}
■}
■override EntityAl GetFocusedItem()
■ return m_ltem;
■Icon GetIcon()
■■return m_lcon;
■}
■override void SetDefaultFocus(bool while_micromanagment_mode = false)
■■super.SetDefaultFocus(while_micromanagment_mode);
■■if ( m_lcon )
■■m_lcon.SetActive(true);
■}
■override void SetLastFocus()
■ super.SetLastFocus();
■■if ( m_lcon )
■■m_lcon.SetActive(true);
■}
■override void Unfocus()
■■super.Unfocus();
■■if (m_lcon)
```

■■m Icon SetActive(false)

```
....// ----- HandStableState.c - START -------
/**@class■■HandStableState

    @brief
    represents stable state (i.e. the basic states that the fsm will spend the most time in)

class HandStableState extends HandStateBase
■int m_AnimState;
■void HandStableState (Man player = NULL, HandStateBase parent = NULL, int anim_state = -1) { m_Anim_state = -1) 
■void SyncAnimState () { }
■override void OnEntry (HandEventBase e)
■■super.OnEntry(e);
■■SyncAnimState();
■■//m_weapon.OnStableStateEntry();
■override void OnUpdate (float dt)
■■super.OnUpdate(dt);
■■SyncAnimState();
■override void OnAbort (HandEventBase e)
■■super.OnAbort(e);
■override void OnExit (HandEventBase e)
 ■■//m_weapon.ResetWeaponAnimState();
 ■■super.OnExit(e);
■override bool IsIdle () { return true; }
■int GetCurrentStateID () { return 0; }
■/// query for entity in hands
■bool HasEntityInHands () { return false; }
};
// -----
// ----- HandStableState.c - END ------//
// ----- HandStartAction.c - START ------
/**@class ■HandStartAction
  * @brief
simple class starting animation action specified by m_action and m_actionType
```

class HandStartAction extends HandStateBase

```
// ----- HandStateBase.c - START ------
/**@class■HandStateBase
  @brief

represent hand state base
 Class comes with entry/update/exit hooks that can be overriden in custom states
class HandStateBase
Man m_Player; /// entity that this state relates to
■HandStateBase m_parentState; /// hierarchical parent state of this state (or null)
■ref HandFSM m_FSM; /// nested state machine (or null)
■void HandStateBase (Man player = NULL, HandStateBase parent = NULL) { m_Player = player; m_pare
■/**@fn■■SetParentState
* @brief
allows construction of hierarchical state machine
woid SetParentState (HandStateBase parent) { m_parentState = parent; }
■/**@fn■■GetParentState
* @return state that owns this sub-state (or null if plain state)
■HandStateBase GetParentState () { return m_parentState; }
■bool HasFSM () { return m_FSM != NULL; }
■HandFSM GetFSM () { return m_FSM; }
■bool ProcessEvent (HandEventBase e)
■{
■if (HasFSM())
■■return m_FSM.ProcessEvent(e);
■ return false:
■/**@fn■■AddTransition
■ * @brief■adds transition into m FSM transition table
■void AddTransition (HandTransition t)
■■if (HasFSM())
■■■m_FSM.AddTransition(t);
■■■Error("[hndfsm] adding transition to state without FSM. Configure FSM first.");
■/**@fn■■OnEntry
■ * @brief

called upon entry to state
■ * @NOTE■if state has (non-running) sub-machine, it's started on entry
■ * @param[in] e■the event that triggered transition to this state
■void OnEntry (HandEventBase e)
■■if (HasFSM() && !m_FSM.lsRunning())
■■{
■■■if (e)
■■■IndDebugPrint("[hndfsm] { " + Object.GetDebugName(e.m_Player) + " STS = " + e.m_Player.GetS
■■■hndDebugPrint("[hndfsm] { " + this.Type().ToString() + " Has Sub-FSM! Starting submachine...");
■■■m FSM.Štart(e);
```

```
// ----- Hand Actions.c - START ------
///@{ actions
/**@class■HandActionBase
* @brief■represents action executed on transition just between OnExit from old state and OnEntry to new
class HandActionBase
I/**@fn■■■Action
* @brief executed when transition occurs
■void Action (HandEventBase e) { }
class HandActionCreated extends HandActionBase
■override void Action (HandEventBase e)
■#ifdef DEVELOPER
■■if (LogManager.IsInventoryHFSMLogEnable())
■■■Debug.InventoryHFSMLog("Action - STS = " + e.m_Player.GetSimulationTimeStamp(), e.ToString(),
■#endif
■■e.m_Player.OnItemInHandsChanged();
■}
}:
class HandActionTake extends HandActionBase
■override void Action (HandEventBase e)
■{
■#ifdef DEVELOPER
■■if ( LogManager.lsInventoryHFSMLogEnable() )
■■■Debug.InventoryHFSMLog("Action - STS = " + e.m_Player.GetSimulationTimeStamp(), e.ToString(),
--}
■■#endif
■■GameInventory.LocationSyncMoveEntity(e.GetSrc(), e.GetDst());
■■e.m_Player.OnItemInHandsChanged();
|
class HandActionDrop extends HandActionBase
■override void Action (HandEventBase e)
■#ifdef DEVELOPER
■■if (LogManager.IsInventoryHFSMLogEnable())
■■■Debug.InventoryHFSMLog("Action - STS = " + e.m_Player.GetSimulationTimeStamp(), e.ToString() ,
■#endif
```

■■GameInventory.LocationSyncMoveEntity(e.GetSrc(), e.GetDst());

■■e m Player OnItemInHandsChanged()

```
// ----- Hand_Events.c - START ------
///@{ events
/**@enum■HandEventID
* @brief■identifier for events mainly for rpc purposes
enum HandEventID
■UNKNOWN,
■TAKE,
■MOVETO,
■DROP.
■THROW.
■SWAP
■FORCESWAP,
■DESTROY,
■CREATED
■DESTROYED,
■REPLACE,
■REPLACE2,
■REPLACE3,
■REPLACED.
■HUMANCOMMAND_ACTION_FINISHED,
■HUMANCOMMAND_ACTION_ABORTED,
■ANIMEVENT_CHANGE_HIDE
enum JunctureRequestResult
■JUNCTURE_NOT_REQUIRED,
■JUNCTURE_ACQUIRED,
■JUNCTURE_DENIED,
■ERROR,
/**@class■HandEventBase
 @brief

represents event that triggers transition from state to state
class HandEventBase
\blacksquareint m_EventID = 0;
\blacksquareint m AnimationID = -1;
■Man m_Player;
■ref InventoryLocation m_Src;
■void HandEventBase (Man p = null, InventoryLocation src = null) { m_Player = p; m_Src = src; }
■HandEventID GetEventID () { return m_EventID; }
■void ReadFromContext (ParamsReadContext ctx) { } // actual read is in CreateHandEventFromContext
■void WriteToContext (ParamsWriteContext ctx)
■■ctx.Write(m_EventID);
■ ctx.Write(m_Player);
■■OptionalLocationWriteToContext(m_Src, ctx);
■ ctx.Write(m_AnimationID);
```

Inventoryl ocation GetSrc () { return m. Src: }

```
// ----- Hand Guards.c - START ------
///@{ guards
/**@class■HandGuardBase
* @brief

represents guard on a transition from state to state
class HandGuardBase
I/**@fn■■■GuardCondition
* @brief==enable or disable transition based on condition
lacktriangle ^* the guard is a boolean operation executed first and which can prevent the transition from firing by retui
■ * @return■■true if transition is allowed
■bool GuardCondition(HandEventBase e) { return true; }
class HandGuardAnd extends HandGuardBase
■ref HandGuardBase m_arg0;
■ref HandGuardBase m_arg1;
■void HandGuardAnd(HandGuardBase arg0 = null, HandGuardBase arg1 = null) { m_arg0 = arg0; m_arg
■override bool GuardCondition(HandEventBase e)
■■bool result = m_arg0.GuardCondition(e) && m_arg1.GuardCondition(e);
■#ifdef DEVELOPER
■■if (LogManager.lsInventoryHFSMLogEnable())
■■■Debug.InventoryHFSMLog("GuardCondition result: " + result + " - " + m_arg0.Type() + " && " + m_arg0.
■■#endif
■return result;
■}
class HandGuardNot extends HandGuardBase
■ref HandGuardBase m_arg0;
■void HandGuardNot(HandGuardBase arg0 = null) { m_arg0 = arg0; }
■override bool GuardCondition(HandEventBase e)
■■bool result = !m_arg0.GuardCondition(e);
■■if (LogManager.lsInventoryHFSMLogEnable())
■■Debug.InventoryHFSMLog("GuardCondition result: " + result + " - " + m_arg0.Type(), "HandGuardNo
■■#endif
■return result;
```

};

```
// ----- Hand_States.c - START ------
///@{ states
enum HandStateID
■UNKNOWN■■■■= 0,
■Empty■■■= 1,
\blacksquareEquipped\blacksquare\blacksquare= 2,
class HandStateEmpty: HandStableState
■override void OnEntry(HandEventBase e)
• {
■■if(e)
■■switch (e.m_EventID)
  ■■■ case HandEventID.MOVETO:
■■■■if (HumanInventory.HasInventoryReservation(e.GetSrcEntity(), e.GetDst()))
LIBERTH SET OF THE PROOF OF TH
■■■■break:
■■■■default: {};
■super.OnEntry(e);
■override void OnExit(HandEventBase e) { super.OnExit(e); }
■override int GetCurrentStateID() { return HandStateID.Empty; }
class HandStateEquipped : HandStableState
■override void OnEntry(HandEventBase e)
•{
■■if(e)
■■{
  ■■■switch (e.m_EventID)
    ■■■case HandEventID.MOVETO:
■■■■if (HumanInventory.HasInventoryReservation(e.GetSrcEntity(), e.GetDst()))
LIBERTH SET OF THE PROOF OF TH
■■■■break:
■■■■default: {};
---
 | ||
■super.OnEntry(e);
■override void OnExit(HandEventBase e)
 ■ ** /* switch (e.m_EventID)
    ■■case HandEventID.MOVETO:
■■■■if (HumanInventory.HasInventoryReservation(e.GetSrcEntity(), e.GetDst()))
  ■■■■HumanInventory.ClearInventoryReservation(e.GetSrcEntity(), e.GetDst());
■■■break;
```

```
// ----- Hatchback_02.c - START ------
class Hatchback_02 extends CarScript
■protected ref UniversalTemperatureSource m_UTSource;
■protected ref UniversalTemperatureSourceSettings m_UTSSettings:
■protected ref UniversalTemperatureSourceLambdaEngine m_UTŠLEngine;
■void Hatchback_02()
\blacksquare//m_dmgContactCoef\blacksquare= 0.070;
■■m_EngineStartOK■■■= "Hatchback_02_engine_start_SoundSet";
■ m_EngineStartBattery = "Hatchback_02_engine_failed_start_battery_SoundSet";
■■m EngineStartPlug■■= "Hatchback_02_engine_failed_start_sparkplugs_SoundSet";
■■m_EngineStartFuel■■= "Hatchback_02_engine_failed_start_fuel_SoundSet";
■■m_EngineStopFuel■■= "offroad_engine_stop_fuel_SoundSet";
■■m CarDoorOpenSound■■= "offroad door open SoundSet":
■■m_CarDoorCloseSound■■= "offroad_door_close_SoundSet";
■■m_CarHornShortSoundName = "Hatchback_02_Horn_Short_SoundSet";
■■m_CarHornLongSoundName■= "Hatchback_02_Horn_SoundSet";
■■SetEnginePos("0 0.7 1.4");
■}
■override void EEInit()
■ super.EEInit();
■■if (GetGame().IsServer() | !GetGame().IsMultiplayer())
■■■m_UTSSettings ■■■■■ new UniversalTemperatureSourceSettings();
■■■m_UTSSettings.m_ManualUpdate ■= true;
■■■m_UTSSettings.m_TemperatureMin■= 0;
■■m_UTSSettings.m_TemperatureMax■= 30;
■■■m_UTSSettings.m_RangeFull■■= 0.5;
■■■m_UTSSettings.m_RangeMax■■= 2;
■■■m_UTSSettings.m_TemperatureCap■= 25;
■■■m_UTSLEngine■■■■■= new UniversalTemperatureSourceLambdaEngine();
■■■ UTSource ■■■■■■ new UniversalTemperatureSource(this, m_UTSSettings, m_UTSLEngine);
---}
|
■override void OnEngineStart()
■■super.OnEngineStart();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■m_UTSource.SetDefferedActive(true, 20.0);
■■}
■}
■override void OnEngineStop()
■■super.OnEngineStop();
```

```
// ----- Hatchback_02FrontLight.c - START ------
class Hatchback_02FrontLight extends CarLightBase
■void Hatchback_02FrontLight()
■{
■■m_SegregatedBrightness = 6;
■■m SegregatedRadius = 65;
■■m_SegregatedAngle = 80;
■ Manage Segregated Color RGB = Vector (0.8, 0.8, 1);
■■m_AggregatedBrightness = 12;
■■m_AggregatedRadius = 90;
■■m_AggregatedAngle = 90;
■■m_AggregatedColorRGB = Vector(0.8, 0.8, 1);
■ ■ FadeIn(0.3);
■■SetFadeOutTime(0.25);
■■SegregateLight();
/// ------ Hatchback_02FrontLight.c - END ------
______
// ----- Hatchback_02RearLight.c - START ------
// -----
class Hatchback 02RearLight extends CarRearLightBase
void Hatchback_02RearLight()
[
■■// Brake light only
■■m_SegregatedBrakeBrightness = 1;
■■m SegregatedBrakeRadius = 6:
■■m_SegregatedBrakeAngle = 270;
■ SegregatedBrakeColorRGB = Vector(1, 0.05, 0.05);
■■// Reverse light only
■■m_SegregatedBrightness = 2;
■■m_SegregatedRadius = 13;
■■m_SegregatedAngle = 180;
■■m_SegregatedColorRGB = Vector(1.0, 1.0, 1.0);
■■// Brake & Revese lights combined
■■m_AggregatedBrightness = 2.5;
■■m_AggregatedRadius = 15;
■■m_AggregatedAngle = 180;
■ MagregatedColorRGB = Vector(1.0, 0.5, 0.5);
■ FadeIn(0.1);
■■SetFadeOutTime(0.1);
■■SetVisibleDuringDaylight(false);
```

■SetCastShadow(false):

```
// ----- Hatchet.c - START ------
class Hatchet extends ToolBase
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionMineTree);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionMineBush);
■■AddAction(ActionRepairPart);
■■AddAction(ActionDismantlePart);
■■AddAction(ActionBuildPart);
■■//AddAction(ActionDestroyPart);
■■//AddAction(ActionSawPlanks);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionSkinning);
■}
// -----
// ----- Hatchet.c - END ------
// ----- HayHook.c - START ------
class HayHook: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionSkinning);
};
// -----
// ----- HayHook.c - END ------
// -----
// -----
// ----- Head.c - START ------
class Head: ItemBase
```

```
// ----- HeadBandana_ColorBase.c - START ------
class HeadBandana_ColorBase extends Clothing {};
class HeadBandana_Green extends HeadBandana_ColorBase {};
class HeadBandana_Black extends HeadBandana_ColorBase {};
class HeadBandana_Blue extends HeadBandana_ColorBase {};
class HeadBandana_Red extends HeadBandana_ColorBase {};
class HeadBandana_Yellow extends HeadBandana_ColorBase {};
// ----- HeadBandana_ColorBase.c - END ------
// -----
// ----- HeadCover_improvised.c - START -----
class HeadCover_Improvised extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- HeadCover improvised.c - END ------
// -----
// ----- Header.c - START -----
// -----
class Header: LayoutHolder
■protected int■■■m_DefaultColor;
■protected int■■■m_DefaultFontSize;
■protected EntityAl■■m_Entity;
■protected Widget■■m_CollapseButton;
■protected Widget■■m_UpArrowButton;
■protected Widget■m_DownArrowButton;
■protected TextWidget■m_HeaderText;
■void Header( LayoutHolder parent, string function_name )
■ m_CollapseButton = GetMainWidget().FindAnyWidget( "collapse_button" );
■■m_UpArrowButton■■= GetMainWidget().FindAnyWidget( "opened" );
```

■■m DownArrowButton■- GetMainWidget() FindAnyWidget("closed"

```
....// ----- HeadtorchLight.c - START ------
class HeadtorchLight extends SpotLightBase
■private static float m_DefaultBrightness = 3;
■private static float m_DefaultRadius = 20;
■void HeadtorchLight()
■■SetVisibleDuringDaylight( true );
■■SetRadiusTo( m_DefaultRadius );
■■SetSpotLightAngle(95);
■■SetCastShadow( true );
■■FadeIn( 0.06 );
■■SetBrightnessTo( m_DefaultBrightness );
■SetAmbientColor( 0.92, 0.85, 0.58 );
■SetDiffuseColor( 0.92, 0.85, 0.58 );
■■SetFadeOutTime(0.1);
■■//SetDisableShadowsWithinRadius(0.25); // Idea for optimization: Uncomment this to disable shadows
■}
■void SetColorToWhite()
■■SetAmbientColor( 0.92, 0.85, 0.86 );
■SetDiffuseColor( 0.92, 0.85, 0.86 );
■}
■void SetColorToRed()
■ SetAmbientColor( 1.0, 0.2, 0.2 );
■ SetDiffuseColor( 1.0, 0.2, 0.2 );
■void SetIntensity( float coef, float time )
■■FadeBrightnessTo( m_DefaultBrightness * coef, time );
■■FadeRadiusTo( m_DefaultRadius * coef, time );
■}
// ----- HeadtorchLight.c - END ------
// ----- Headtorch_Black.c - START ------
class Headtorch_Black : Headtorch_ColorBase
■override void OnLightCreated()
■ Light.SetColorToRed();
```

■override void OnDebugSpawn()

```
// ----- Headtorch ColorBase.c - START ------
class Headtorch_ColorBase extends Clothing
■HeadtorchLight m_Light;
■static int■■REFLECTOR_ID = 4;
■static int■■GLASS_ID = 5;
■static string ■LIGHT_OFF_GLASS ■■= "dz\\characters\\headgear\\data\\HeadTorchGlass.rvmat";
■static string ■LIGHT_OFF_REFLECTOR ■= "dz\\characters\\headgear\\data\\HeadTorch.rvmat";
■static string ■LIGHT_ON_GLASS ■■■= "dz\\characters\\headgear\\data\\HeadTorchGlass_on.rvmat";
■ static string ■ LIGHT_ON_GLASS_RED ■ = "dz\\characters\\headgear\\data\\HeadTorchGlass_on_red.
■ static string ■ LIGHT_ON_REFLECTOR ■ ■ = "dz\\characters\\headgear\\data\\HeadTorch_ON.rvmat";
■static string ■LIGHT_ON_REFLECTOR_RED■= "dz\\characters\\headgear\\data\\HeadTorch_ON_red.r
■static vector m_OnHeadLocalPos = Vector(0.12,0.15,0);
■static vector m_OnHeadLocalOri = Vector(0,90,0);
■static string m_OffHeadLightPoint = "beamStart";
■static string m_OffHeadLightTarget = "beamEnd";
■ref Timer m_Timer;
■void Headtorch_ColorBase()
■ if (!m_Timer)
■■■m_Timer = new Timer(CALL_CATEGORY_SYSTEM);
■■m_Timer.Run(1, this, "CheckParent", NULL, false);
■override bool CanPutAsAttachment(EntityAl parent)
■■if (!super.CanPutAsAttachment(parent))
■■Preturn false;
■■Clothing helmet = Clothing.Cast(parent.FindAttachmentBySlotName("Headgear"));
■■if (helmet && helmet.ConfigGetBool("noNVStrap"))
■■■return false;
| | |
■■Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if (mask && mask.ConfigGetBool("noEyewear"))
■■return false;
==}
■■return true;
■void CheckParent()
■■EntityAl owner = GetHierarchyParent();
■■// Spawn a battery in the headtorch if it's attached on a zombie and switch it on
■■if (owner && owner.lsZombie())
■■■GetInventory().CreateAttachment("Battery9V");
```

■■GetCompEM() SwitchOn()

```
// ----- Headtorch_Grey.c - START ------
class Headtorch_Grey : Headtorch_ColorBase
■override void OnDebugSpawn()
■■Battery9V.Cast(GetInventory().CreateInInventory("Battery9V"));
};
// ----- Headtorch_Grey.c - END ------
// -----
// ----- Health.c - START -----
class HealthMdfr: ModifierBase
■private float■m_LastHealthLevel;
■private float m_LastBloodLevel;
■override void Init()
■■m_TrackActivatedTime = false;
■■m_ID ■■■■■= eModifiers.MDF_HEALTH;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■■DisableDeactivateCheck();
|
■override bool ActivateCondition(PlayerBase player)
■■return true;
■}
■override bool DeactivateCondition(PlayerBase player)
■return false;
■override void OnTick(PlayerBase player, float deltaT)
{
■■float blood = player.GetHealth("GlobalHealth", "Blood");
■■float health = player.GetHealth("GlobalHealth", "Health");■
■■float healthdelta = Math.AbsInt(health - m_LastHealthLevel);
■■if (health < m_LastHealthLevel) healthdelta = -healthdelta;
■■//if( player.m_NotifiersManager ) player.m_NotifiersManager.FindNotifier(eNotifiers.NTF_LIVES).Displa
■■m_LastHealthLevel = health;
■■float blooddelta = Math.AbsInt(blood - m_LastBloodLevel);
```

■■if (blood < m. LastBloodLevel) blooddelta - -blooddelta:

```
// ----- HealthNotfr.c - START ------
 class HealthNotfr: NotifierBase
  `/*
■private const float ■HEALTHY_BLOOD_TRESHOLD = 5000;
■private const float ■HEALTHY_TRESHOLD = 5000;
 ■private const float
■HEALING_ENERGY_TRESHOLD
■ 4000;
■private const float■ ■HEALING_WATER_TRESHOLD■= 2500;
■private const float■ ■HEALING_BLOOD_TRESHOLD■= 5000;
 ■private const float ■DEC_TRESHOLD_LOW ■■■= 0;
■ private const float ■ DEC_TRESHOLD_MED ■ ■ = -0.7; ■ private const float ■ DEC_TRESHOLD_HIGH■ = -1.3; ■ private const float ■ INC_TRESHOLD_LOW ■ ■ = 0;
 ■private const float ■INC_TRESHOLD_MED ■■■= 0.7;
 ■private const float ■INC_TRESHOLD_HIGH■■= 1.3;
 ■void HealthNotfr(NotifiersManager manager)
 \blacksquare \blacksquare m_TickInterval = 3000;
 ■■m_TendencyBufferSize = 6;
 ■override int GetNotifierType()
 ■■return eNotifiers.NTF_HEALTHY;
 ■override void DisplayBadge()
 ■}
 ■override void DisplayTendency(float delta)
 ■■int tendency = CalculateTendency(delta, INC_TRESHOLD_LOW, INC_TRESHOLD_MED, INC_TRES
 ■■//PrintString("tendency:" + tendency);
 ■■//GetVirtualHud().SetStatus(eDisplayElements.DELM_TDCY_HEALTH,tendency);
 ■■//DSLevels level = DetermineLevel( GetObservedValue(), PlayerConstants.THRESHOLD_HEALTH_W
 ■■EStatLevels health_level = m_Player.GetStatLevelHealth();
 ■■DisplayElementTendency dis_elm = DisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElement
 ■■if( dis_elm )
 ■■■dis_elm.SetSeriousnessLevel(health_level);
 ■■■dis_elm.SetTendency(tendency);
 ——}
 ■}
 ■override void HideBadge()
 ■{
  Image: Indicate the control of th
```

■override protected float GetObservedValue()

```
// ----- HealthRegen.c - START ------
class HealthRegenMdfr: ModifierBase
■override void Init()
■{
■ TrackActivatedTime = false;
■■m_ID ■■■■= eModifiers.MDF_HEALTH_REGEN;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■■DisableDeactivateCheck();
■}
■override bool ActivateCondition(PlayerBase player)
■ return true;
■override void OnActivate(PlayerBase player)
■override void OnReconnect(PlayerBase player)
■{
■override bool DeactivateCondition(PlayerBase player)
■■return false;
■override void OnTick(PlayerBase player, float deltaT)
■■if (player.IsAlive())//this needs to be here, some of the other modifiers can kill the character during the s
■■■float regen_speed = player.GetHealthRegenSpeed() * deltaT;;
■■■player.AddHealth("GlobalHealth", "Health", regen_speed);
■■■player.AddHealth("RightArm","Health",regen_speed * PlayerConstants.DAMAGE_ZONE_BLOOD_R
■■■player.AddHealth("RightHand","Health",regen_speed * PlayerConstants.DAMAGE_ZONE_BLOOD_I
■■■player.AddHealth("LeftArm","Health",regen_speed * PlayerConstants.DAMAGE_ZONE_BLOOD_RE
■■■player.AddHealth("LeftHand","Health",regen_speed * PlayerConstants.DAMAGE_ZONE_BLOOD_RI
 ■■■//Leg regen when legs are NOT BROKEN
■■■if ( player.GetBrokenLegs() == eBrokenLegs.NO_BROKEN_LEGS )
player.AddHealth("RightLeg","Health", PlayerConstants.LEG_HEALTH_REGEN); player.AddHealth("RightFoot","Health", PlayerConstants.LEG_HEALTH_REGEN); player.AddHealth("LeftLeg","Health", PlayerConstants.LEG_HEALTH_REGEN);
■■■player.AddHealth("LeftFoot", "Health", PlayerConstants.LEG HEALTH REGEN);
}
■■else
 {
 ■■■//Leg regen when legs are BROKEN or SPLINTED
■■■■player.AddHealth("RightLeg","Health", PlayerConstants.LEG_HEALTH_REGEN_BROKEN);
■■■■player.AddHealth("RightFoot","Health",PlayerConstants.LEG_HEALTH_REGEN_BROKEN);
player.AddHealth("LeftLeg","Health", PlayerConstants.LEG_HEALTH_REGEN_BROKEN);
```

```
// ----- HeartAttack.c - START ------
class HeartAttackMdfr: ModifierBase
■private const float ■HEALTH_DECREMENT_PER_SEC = -0.2;
■private const float ■SHOCK_DECREMENT_PER_SEC = -2;
■private const float ■SHOCK_LIMIT = 0;
■override void Init()
■■m_TrackActivatedTime = false;
■■m_ID ■■■■■= eModifiers.MDF_HEART_ATTACK;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■■m IsPersistent = true:
■■DisableDeactivateCheck();
■■DisableActivateCheck();
■override bool ActivateCondition(PlayerBase player)
■■return false;
■override void OnActivate(PlayerBase player)
•}
■override bool DeactivateCondition(PlayerBase player)
■ return false:
■override void OnTick(PlayerBase player, float deltaT)
■if (player.GetHealth("GlobalHealth", "Shock") <= SHOCK_LIMIT)
Table 1 float currenthealth = player.GetHealth("GlobalHealth", "Health");
■■■player.AddHealth("GlobalHealth", "Health", HEALTH_DECREMENT_PER_SEC * deltaT );
■■else
•
Table 1 float currentshock = player.GetHealth("GlobalHealth", "Shock");
■■■player.AddHealth("GlobalHealth", "Shock", SHOCK_DECREMENT_PER_SEC * deltaT);
——}
■}
};
// ----- HeartAttack.c - END ------
// -----
// ----- HeartbeatNotfr.c - START -----
```

class HeartbeatNotfr: NotifierBase

```
----- HeatBuffer.c - START ------
class HeatBufferMdfr: ModifierBase
■protected const float HEATBUFFER_SHOW = 25.0;
■protected const float HEATBUFFER_HIDE = 20.0;
■override void Init()
■{
■■m_TrackActivatedTime = false;
■■m_ID ■■■■■= eModifiers.MDF_HEATBUFFER;
■■m TickIntervalInactive ■= 1;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■override void OnTick(PlayerBase player, float deltaT)
■override bool ActivateCondition(PlayerBase player)
■■float heatbuffer = player.GetStatHeatBuffer().Get();
■■if ( heatbuffer >= HEATBUFFER_SHOW )
Example 1 return true:
■■}
■■else
---
■■return false:
■override void OnActivate(PlayerBase player)
■■if( player.GetNotifiersManager() )
■■■//player.GetNotifiersManager().ActivateByType(eNotifiers.NTF_HEATBUFFER);
■■■player.ToggleHeatBufferVisibility(true);
——}
■override void OnDeactivate(PlayerBase player)
■■if( player.GetNotifiersManager() )
■■■//player.GetNotifiersManager().DeactivateByType(eNotifiers.NTF_HEATBUFFER);
■■player.ToggleHeatBufferVisibility(false);
| | |
■override bool DeactivateCondition(PlayerBase player)
■■float heatbuffer = player.GetStatHeatBuffer().Get();
■■if ( heatbuffer < HEATBUFFER_HIDE )
■■return true:
}
else
```

```
----- HeatComfortAnimHandler.c - START ------
class HeatComfortAnimHandler
■const float TICK_INTERVAL = 2;
■float m_TimeSinceLastTick;
■float m_ProcessTimeAccuFreeze;
■float m_ProcessTimeAccuHot;
■PlayerBase m_Player;
■float m_EventTimeFreeze = -1;
■float m_EventTimeHot = -1;
■protected ref HumanMovementState m_MovementState = new HumanMovementState();
■const float TIME_INTERVAL_HC_MINUS_LOW_MIN = 5; const float TIME_INTERVAL_HC_MINUS_LC
■const float TIME_INTERVAL_HC_MINUS_HIGH_MIN = 15; const float TIME_INTERVAL_HC_MINUS_H
■const float TIME_INTERVAL_HC_PLUS_LOW_MIN = 5; const float TIME_INTERVAL_HC_PLUS_LOW
■const float TIME INTERVAL HC PLUS HIGH MIN = 15; const float TIME INTERVAL HC PLUS HIGH
■void HeatComfortAnimHandler(PlayerBase player)
■ m_Player = player;
■void Update(float delta_time, HumanMovementState hms)
m_TimeSinceLastTick += delta_time;
■■if( m_TimeSinceLastTick > TICK_INTERVAL )
■■■Process(m_TimeSinceLastTick);
■■■m_TimeSinceLastTick = 0;
——}
|
■float GetEventTime(float hc_value ,float threshold_low, float threshold_high, float low_min, float high_min
■■float inv_value = Math.InverseLerp(threshold_low, threshold_high, hc_value);
■■float value_min = Math.Lerp(low_min, high_min,inv_value);
■■float value_max = Math.Lerp(low_max,high_max,inv_value);
■■return Math.RandomFloatInclusive(value_min,value_max);
■void Process(float delta_time)
■■if( GetGame().IsServer() )
■■{
■■■float hc = m_Player.GetStatHeatComfort().Get();
■■■float inv_value;
■■■float value_min;
■■■float value_max;
■■■float offset_time;
■■■if(hc <= PlayerConstants.THRESHOLD_HEAT_COMFORT_MINUS_WARNING)
```

■■■m ProcessTimeAccuFreeze++

```
// ----- HeatComfortEvents.c - START ------
class HeatComfortEventsBase extends PlayerSoundEventBase
■void HeatComfortEventsBase()
■■m_HasPriorityOverTypes = EPlayerSoundEventType.DUMMY | EPlayerSoundEventType.INJURY | EF
■■m_Type = EPlayerSoundEventType.GENERAL;
■override bool HasPriorityOverCurrent(PlayerBase player, EPlayerSoundEventID other_state_id,EPlayerS
Teturn true;
class FreezingSoundEvent extends HeatComfortEventsBase
■void FreezingSoundEvent()
■■m_ID = EPlayerSoundEventID.FREEZING;
■■m_SoundVoiceAnimEventClassID = 11;
class HotSoundEvent extends HeatComfortEventsBase
■void HotSoundEvent()
■ m_ID = EPlayerSoundEventID.HOT;
■■m_SoundVoiceAnimEventClassID = 11111111;
■}
// -----
// ----- HeatComfortEvents.c - END ------
// ----- HeatComfortMdfr.c - START ------
class HeatComfortMdfr: ModifierBase
■override void Init()
■ TrackActivatedTime = false;
■■m_ID ■■■■= eModifiers.MDF_TEMPERATURE;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■■DisableDeactivateCheck();
■}
■override bool ActivateCondition(PlayerBase player)
```

return true:

```
// ----- Heatpack.c - START -----
class Heatpack: ItemBase
■override bool CanHaveTemperature()
■return true;
■override void OnWorkStart()
■ if (GetGame().IsServer())
■■SetTemperature(60);
■}
■override void OnWork( float consumed_energy )
■ if (GetGame().IsServer())
■■SetTemperature(60);
■override void OnWorkStop()
■ if (GetGame().IsServer())
■■SetHealth(0);
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionTurnOnHeatpack);
};
// ----- Heatpack.c - END -----
// ----- Helicopter.c - START -----
■Base native class for helicopter.
class Helicopter extends Transport
```

```
// ----- HelicopterScript.c - START ------
■Base script class for helicopters.
class HelicopterScript extends HelicopterAuto
■void HelicopterScript()
■■SetEventMask(EntityEvent.POSTSIMULATE);
■override void EOnPostSimulate(IEntity other, float timeSlice)
■■Gets called everytime the game wants to start the engine.
■■This callback is called on server only.
■■\return true if the engine can start, false otherwise.
*/
■bool OnBeforeEngineStart()
■ return true;
■}
■//! Gets called everytime the engine starts.
■void OnEngineStart()
■//! Gets called everytime the engine stops.
■void OnEngineStop()
■{
// ----- HelicopterScript.c - END ------
// -----
// ----- HelmetBase.c - START ------
// -----
class HelmetBase extends ClothingBase
};
// ----- HelmetBase.c - END ------
// -----
```

```
----- HelpScreen.c - START ------
class HelpScreen extends UIScriptedMenu
■TextListboxWidget m_KeyBindingsTextListboxWidget;
■TextListboxWidget m_MouseBindingsTextListboxWidget;
■ButtonWidget m_CloseConsoleButton;
■void HelpScreen()
■{
■}
■void ~HelpScreen()
■override Widget Init()
■■PluginKeyBinding module_keybinding = PluginKeyBinding.Cast( GetPlugin(PluginKeyBinding) );
■■layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/help_screen.layout");
■■m KeyBindingsTextListboxWidget = TextListboxWidget.Cast( layoutRoot.FindAnyWidget("KeyBindings
■■m_MouseBindingsTextListboxWidget = TextListboxWidget.Cast( layoutRoot.FindAnyWidget("MouseBindingsTextListboxWidget)
■■array<ref KeyBinding> keybindings = module_keybinding.GetKeyBindings();
\blacksquare for (int i = 0; i < keybindings.Count(); i++)
■■M_KeyBindingsTextListboxWidget.AddItem( keybindings.Get(i).GetInfoBind(), NULL, 0 );
■■■m_KeyBindingsTextListboxWidget.SetItem(i, keybindings.Get(i).GetInfoDescription(), NULL, 1);
\blacksquare for (i = 0; i < mousebindings.Count(); i++)
■■■m MouseBindingsTextListboxWidget.AddItem( mousebindings.Get(i).GetInfoBind(), NULL, 0 );
■■■m_MouseBindingsTextListboxWidget.SetItem(i, mousebindings.Get(i).GetInfoDescription(), NULL, 1
■■m_CloseConsoleButton = ButtonWidget.Cast( layoutRoot.FindAnyWidget("CloseButtonWidget") );
■■return layoutRoot;
■}
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
■■if ( w == m_CloseConsoleButton )
EXECTION();
■■return true;
■■}
■■return false;
```

```
----- HemolyticReaction.c - START ------
class HemolyticReactionMdfr: ModifierBase
■private float■m_RunningTime;
override void Init()
■■m_TrackActivatedTime = true;
■■m_ID ■■■■= eModifiers.MDF_HEMOLYTIC_REACTION;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
\blacksquare \blacksquare m\_TickIntervalActive <math>\blacksquare = DEFAULT\_TICK\_TIME\_ACTIVE;
■■m IsPersistent = true;
m_RunningTime = CalculateRunTime();
■■DisableActivateCheck();
■override bool ActivateCondition(PlayerBase player)
■■return false;
■override void OnActivate(PlayerBase player)
■■player.IncreaseDiseaseCount();
■override void OnDeactivate(PlayerBase player)
■■player.DecreaseDiseaseCount();
■override void OnReconnect(PlayerBase player)
■■OnActivate(player);
■override bool DeactivateCondition(PlayerBase player)
■■float attached_time = GetAttachedTime();
■■if(attached_time > m_RunningTime )
■■return true;
——}
■■else
■■■return false;
==}
■override void OnTick(PlayerBase player, float deltaT)
player.AddHealth("","Blood",-PlayerConstants.HEMOLYTIC_BLOOD_DRAIN_PER_SEC * deltaT);
■float CalculateRunTime()
■■float time = PlayerConstants.HEMOLYTIC_BLOODLOSS_AMOUNT / PlayerConstants.SALINE_BLOC
```

```
----- HescoBox.c - START -----
class HescoBox extends Inventory_Base
■static const int FOLDED
■static const int UNFOLDED ■■ = 1;
■static const int FILLED ■■ = 2;
■static const int PERCENTUAL_DAMAGE = 1;
■ref Timer ■■■■■■m_Timer;
■ref protected EffectSound ■■m_DeployLoopSound;
■protected int m_State;
■void HescoBox()
■m_State = FOLDED;
■■//synchronized variables
■■RegisterNetSyncVariableInt( "m_State", FOLDED, FILLED );
■■RegisterNetSyncVariableBool("m_IsSoundSynchRemote");
■■RegisterNetSyncVariableBool("m_IsDeploySound");
■void ~HescoBox()
■■SEffectManager.DestroyEffect( m_DeployLoopSound );
■override bool HasProxyParts()
■ return true;
■}
■override bool CanPutIntoHands( EntityAl parent )
■■if(!super.CanPutIntoHands(parent))
■ return false;
■■return CanBeManipulated();
■}
■void Synchronize()
■■SetSynchDirty();
■override void OnVariablesSynchronized()
■■super.OnVariablesSynchronized();
■■//refresh visuals
■■RefreshVisuals();
■■if (IsDeploySound())
■■PlayDeploySound();
```

```
// ----- HFSMBase.c - START ------
void fsmDebugPrint (string s)
■//Print("" + s); // comment/uncomment to hide/see debug logs
void fsmDebugSpam (string s)
//Print("" + s); // comment/uncomment to hide/see debug spam
/**@class■■HFSMBase
  @brief■■base class for hierarchic finite state machine
* stores current state (m_State) and transition table with possible transitions from each state
  to another state via event
 each state can have nested state machine, thus creating hierarchy
class HFSMBase<Class FSMStateBase, Class FSMEventBase, Class FSMActionBase, Class FSMGuard
protected ref FSMStateBase m_State; /// current fsm state
■protected FSMStateBase m_OwnerState; /// state that owns this fsm (or null if root)
■protected ref FSMStateBase m_InitialState; /// configurable initial state of the machine
■protected ref array<ref FSMTransition<FSMStateBase, FSMEventBase, FSMActionBase, FSMGuardBase
■protected bool m_HasCompletions = false;
■void HFSMBase (FSMStateBase ownerState = NULL)
■ Market = OwnerState;
■/**@fn■■GetCurrentState
■ * @return■returns currently active state within this machine (i.e. not hierarchic state)
■FSMStateBase GetCurrentState ()
■■return m_State;
■ * @return■returns state that is owner of this fsm submachine. returns null if this is a root machine.
■FSMStateBase GetOwnerState ()
■ return m_OwnerState;

■/**@fn
■GetHierarchyPath

* @brief==returns hierarchic state (path to root) of a state
* @param[in] state \p state the path is starting
* @param[out] path \p current hierarchic state
■ * @return true if current state returned in path argument, false otherwise
■bool GetHierarchyPath (FSMStateBase state, out array<FSMStateBase> path)
■■FSMStateBase curr = state;
■■while (curr)
■■ path.Insert(curr);
```

curr – curr GetParentState().

```
----- HiddenSelectionsData.c - START ------
class HiddenSelectionsData
■ref array<string> m_HiddenSelections = new array<string>;
■ref array<string> m_HiddenSelectionsTextures = new array<string>;
■ref array<string> m_HiddenSelectionsMaterials = new array<string>;
■ref map<string, int> m_HiddenSelectionNameToIndex = new map<string, int>;
 ■void HiddenSelectionsData(string type)
■■GetGame().ConfigGetTextArray( string.Format("CfgVehicles %1 hiddenSelections", ■■■type), m_HidenSelectionsTextures", ■type), m_HidenSelectionsTextures (string.Format("CfgVehicles %1 hiddenSelectionsTextures", ■type), m_HidenSelectionsTextures (string.Format("CfgVehicles %1 hiddenSelectionsTextures"), m_HidenSelectionsTextures (string.Format("CfgVehicles %1 hiddenSelectionsTextures (string.Format("CfgVehicles %1 hiddenSelectionsTextur
■■GetGame().ConfigGetTextArray() string.Format("CfgVehicles %1 hiddenSelectionsMaterials", type), m_
\blacksquarefor (int i = 0; i < m_HiddenSelections.Count(); ++i)
■■■m_HiddenSelectionNameToIndex.Insert(m_HiddenSelections[i], i);
■}
 ■int GetHiddenSelectionIndex(string selection)
■Int index:
■■if (m_HiddenSelectionNameToIndex.Find(selection, index))
■■return index:
■■return -1;
■TStringArray GetHiddenSelectionsTextures()
■■return m_HiddenSelectionsTextures;
■}
■TStringArray GetHiddenSelectionsMaterials()
■■return m_HiddenSelectionsMaterials;
 ■static array<string> GetHiddenSelectionsConfig(string type)
 array<string> hiddenSelections = new array<string>;
■■GetGame().ConfigGetTextArray( string.Format("CfgVehicles %1 hiddenSelections", type), hiddenSelections
■■return hiddenSelections;
 ■static array<string> GetHiddenSelectionsTexturesConfig(string type)
 ■■array<string> hiddenSelectionsTextures = new array<string>;
■■GetGame().ConfigGetTextArray( string.Format("CfgVehicles %1 hiddenSelectionsTextures", type), hid
■■return hiddenSelectionsTextures;
■}
 ■static array<string> GetHiddenSelectionsMaterialsConfig(string type)
 ■■array<string> hiddenSelectionsMaterials = new array<string>;
■■GetGame().ConfigGetTextArray( string.Format("CfgVehicles %1 hiddenSelectionsMaterials", type), hid
■■return hiddenSelectionsMaterials:
```

```
// ----- HighCapacityVest_ColorBase.c - START ------
class HighCapacityVest_ColorBase extends Clothing {};
class HighCapacityVest_Black extends HighCapacityVest_ColorBase {};
class HighCapacityVest_Olive extends HighCapacityVest_ColorBase {};
// ----- HighCapacityVest_ColorBase.c - END ------
// ----- HikingBootsLow_ColorBase.c - START ------
// -----
class HikingBootsLow_ColorBase extends Clothing {};
class HikingBootsLow_Black extends HikingBootsLow_ColorBase {};
class HikingBootsLow_Blue extends HikingBootsLow_ColorBase {};
class HikingBootsLow_Beige extends HikingBootsLow_ColorBase {};
class HikingBootsLow_Grey extends HikingBootsLow_ColorBase {};
// ----- HikingBootsLow_ColorBase.c - END ------
// -----
// -----
// ----- HikingBoots_ColorBase.c - START ------
// -----
class HikingBoots_ColorBase extends Clothing {};
class HikingBoots_Brown extends HikingBoots_ColorBase {};
class HikingBoots_Black extends HikingBoots_ColorBase {};
// ----- HikingBoots_ColorBase.c - END ------
// -----
// ----- HikingJacket_ColorBase.c - START ------
class HikingJacket_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
|
class HikingJacket_Black extends HikingJacket_ColorBase {};
class HikingJacket_Blue extends HikingJacket_ColorBase {};
```

class Hiking lacket Red extends Hiking lacket ColorBase (

```
// ----- HintPage.c - START ------
■Data model class for Hint ison
■Location:
class HintPage
■private string ■m_Headline;■■■// Headline hint text■
■private string ■m_Description;■■// Hint description text
■private string ■m_ImagePath;■■// Hint image, can be null
■string GetHeadlineText()
■ return m_Headline;
■string GetDescriptionText()
■■return m_Description;
■string GetImagePath()
■ return m_ImagePath;
// ----- HintPage.c - END ------
// -----
// ----- HitDirectionArrow.c - START ------
class HitDirectionEffectArrow extends HitDirectionEffectBase
■override HitDirectionImagesBase GetImageData()
■{
■ typename type = HitDirectionImagesArrow;
■■HitDirectionImagesArrow data = HitDirectionImagesArrow.Cast(type.Spawn());
■■return data;
■override void FinalizePositionCalculation()
■■//blobs move around the edges, the rest on elypsis
■■float distance_x = (m_DistanceAdjust * m_SizeXEnf) + (m_SizeXEnf / 2.5);
■■float distance_y = (m_DistanceAdjust * m_SizeYEnf) + (m_SizeYEnf / 2.5);
■■m_PosX = Math.Sin(m_AngleRad) * distance_x;
■■m_PosY = -Math.Cos(m_AngleRad) * distance_y;
■override void SetIndicatorRotation(float timeslice = -1.0)
■if (m RotationOverride == HitDirectionConstants.ROTATION DEFAULT)
```

```
// ----- HitDirectionBase.c - START ---------
class HitDirectionEffectBase
■const float DURATION_COEF_MIN = 0.6;
■const float INTENSITY_MIN = 0.6;
■float m_HitDirection;
■float m_Duration;
■float m_BreakPoint;
■float m_TimeActive;
■float m_IntensityMax;
■Widget m_LayoutRoot;
■Widget m_Image;
■DayZPlayer m_Player;
■bool m_Initialized;
■int m_SizeXEnf;
■int m_SizeYEnf;
■float m_PosX;
■float m_PosY;
■float m_PosXScreenEdge;
■float m_PosYScreenEdge;
■float m_AngleRad;
■float m_AngleRadPrev;
■float m_SmoothVel[1];
■ref HitDirectionImagesBase m_ImageData;
■void HitDirectionEffectBase()
■{
■■m_Initialized = false;
\blacksquarem PosX = 0.0;
\blacksquare m_PosY = 0.0;
\blacksquarem_AngleRad = 0.0;
\blacksquare m_SmoothVel[0] = 0.0;
■■m_ImageData = GetImageData();
■■m_ImageData.GetCurrentImageData(m_LayoutRoot,m_Image);
•}
■//! Called manually after object spawn
■void Init(DayZPlayer player, float hit_direction, float intensity_max)
■■m_Player = player;
■■float duration_coef = Math.Clamp(intensity_max,DURATION_COEF_MIN,1);
■■m_IntensityMax = Math.Clamp(intensity_max,INTENSITY_MIN,1);
■■m_Duration = m_DurationMax * duration_coef;
■■m_BreakPoint = Math.Clamp(m_BreakPointBase * m_Duration,0,m_Duration);
■m_Scatter = Math.Clamp(m_Scatter,0.0,180.0);
■■m_HitDirection = hit_direction + (Math.RandomFloatInclusive(0,m_Scatter) * Math.Pow(-1.0,Math.RandomFloatInclusive(0,m_Scatter) * Math.RandomFloatInclusive(0,m_Scatter) * Math.Ran
■■Widget w = m_LayoutRoot;
\blacksquare \blacksquare w = w.GetChildren();
```

■■while (w)

```
----- HitDirectionImagesArrow.c - START ------
class HitDirectionImagesArrow_Static
■static ref array<string> ■m_ImagePathsLayouts;
■static ref array<string> ■m_ImagePathsImages;
■static void InitArrays()
■if (!m_ImagePathsLayouts && !m_ImagePathsImages)
ImagePathsLayouts = new array<string>;
■■■m_ImagePathsImages = new array<string>;
■}
class HitDirectionImagesArrow extends HitDirectionImagesBase
■override protected void PerformRegisterImages()
■■HitDirectionImagesArrow_Static.InitArrays();
■■RegisterImage("gui/layouts/gameplay/HitDirectionIndication.layout", "Single_indicator_Arrow_0");
■override protected ref array<string> GetTypeLayoutPathArray()
■ return HitDirectionImagesArrow_Static.m_ImagePathsLayouts;
■override protected ref array<string> GetTypeImagePathArray()
■■return HitDirectionImagesArrow_Static.m_ImagePathsImages;
// ----- HitDirectionImagesArrow.c - END -----
// ----- HitDirectionImagesBase.c - START ------
class HitDirectionImagesBase
■int ■■■■■■m_lmageIndex;
■void HitDirectionImagesBase()
■■if ( (!GetTypeLayoutPathArray() && !GetTypeImagePathArray()) )
■■PerformRegisterImages();
```

```
----- HitDirectionImagesSpike.c - START ------
class HitDirectionImagesSpike_Static
static ref array<string> ■m_ImagePathsLayouts;
■static ref array<string> ■m_ImagePathsImages;
■static void InitArrays()
■■if (!m_ImagePathsLayouts && !m_ImagePathsImages)
ImagePathsLayouts = new array<string>;
■■■m_ImagePathsImages = new array<string>;
■}
class HitDirectionImagesSpike extends HitDirectionImagesBase
■override protected void PerformRegisterImages()
■HitDirectionImagesSpike_Static.InitArrays();
■■RegisterImage("gui/layouts/gameplay/HitDirectionIndication.layout", "Single_indicator_Spike_0");
■override protected ref array<string> GetTypeLayoutPathArray()
■■return HitDirectionImagesSpike_Static.m_ImagePathsLayouts;
■override protected ref array<string> GetTypeImagePathArray()
■■return HitDirectionImagesSpike_Static.m_ImagePathsImages;
// ----- HitDirectionImagesSpike.c - END -----
// ----- HitDirectionImagesSplash.c - START ------
class HitDirectionImagesSplash_Static
■static ref array<string> ■m_ImagePathsLayouts;
■static ref array<string> ■m_ImagePathsImages;
■static void InitArrays()
■■if (!m_ImagePathsLayouts && !m_ImagePathsImages)
```

■■m ImagePathsLavouts - new array/etrings:

```
class HitDirectionEffectSpike extends HitDirectionEffectBase
■override HitDirectionImagesBase GetImageData()
[
■ typename type = HitDirectionImagesSpike;
■■HitDirectionImagesSpike data = HitDirectionImagesSpike.Cast(type.Spawn());
■■return data:
■}
■override void FinalizePositionCalculation()
■■//blobs move around the edges, the rest on elypsis
■■float distance_x = (m_DistanceAdjust * m_SizeXEnf) + (m_SizeXEnf / 2.5);
■■float distance_y = (m_DistanceAdjust * m_SizeYEnf) + (m_SizeYEnf / 2.5);
■■m_PosX = Math.Sin(m_AngleRad) * distance_x;
■■m PosY = -Math.Cos(m AngleRad) * distance v:
■override void SetIndicatorRotation(float timeslice = -1.0)
■■if (m_RotationOverride == HitDirectionConstants.ROTATION_DEFAULT)
■■■m_LayoutRoot.SetRotation(0,0,Math.RAD2DEG * m_AngleRad,true);
| | |
■■else
■■m_LayoutRoot.SetRotation(0,0,m_RotationOverride,true);
| | |
// ----- HitDirectionSpike.c - END ------
// ----- HitDirectionSplash.c - START ------
class HitDirectionEffectSplash extends HitDirectionEffectBase
■override HitDirectionImagesBase GetImageData()
■■typename type = HitDirectionImagesSplash;
■■HitDirectionImagesSplash data = HitDirectionImagesSplash.Cast(type.Spawn());
■■return data:
■}
■override void FinalizePositionCalculation()
■■//blobs move around the edges, the rest on elypsis
■■m_PosX = m_PosXScreenEdge;
```

■■m PosY - m PosYScreenEdge

```
// ----- HitInfo.c - START -----
class HitInfo
■proto native float GetSurfaceNoiseMultiplier();
■proto native string GetAmmoType();
■proto native vector GetPosition();
■proto native vector GetSurfaceNormal();
■proto native string GetSurface();
■proto native bool IsWater();
// -----
// ----- HitInfo.c - END ------
// -----
// ----- Hit_Concrete.c - START ------
class Hit_Concrete: EffBulletImpactBase
■void Hit_Concrete()
■■SetEnterParticle(ParticleList.IMPACT_CONCRETE_ENTER);
■■SetExitParticle(ParticleList.IMPACT_CONCRETE_EXIT);
■■SetRicochetParticle(ParticleList.IMPACT_CONCRETE_RICOCHET);
\blacksquarem_AngledEnter = 0.50;
■}
// -----
// ----- Hit_Concrete.c - END ------
// ----- Hit_Dirt.c - START -----
class Hit_Dirt : EffBulletImpactBase
■void Hit_Dirt()
■■SetEnterParticle(ParticleList.IMPACT_DIRT_ENTER);
■■SetExitParticle(ParticleList.IMPACT_DIRT_EXIT);
■■SetRicochetParticle(ParticleList.IMPACT_DIRT_RICOCHET);
■}
// ----- Hit Dirt.c - END ------
```

// _____

```
// ----- Hit Error.c - START ------
class Hit_ErrorNoMaterial: EffBulletImpactBase
■void Hit_ErrorNoMaterial()
•{
■#ifdef DEVELOPER
■■SetSingleParticle(ParticleList.IMPACT_TEST_NO_MATERIAL_ERROR);
■■SetSingleParticle(ParticleList.IMPACT_TEST);
■#endif
|
// -----
// ----- Hit_Error.c - END ------//
// ----- Hit_Foliage.c - START ------
class Hit_Foliage: EffBulletImpactBase
■void Hit_Foliage()
■■SetEnterParticle(ParticleList.IMPACT_FOLIAGE_ENTER);
■■SetExitParticle(ParticleList.IMPACT_FOLIAGE_EXIT);
■■SetRicochetParticle(ParticleList.IMPACT_FOLIAGE_ŔICOCHET);
■}
■override float CalculateStoppingForce(float in_speedf, float out_speedf, string ammoType, float weight)
■if ( m_ImpactType == ImpactTypes.MELEE )
■■ return 500;
■■float projectile_weight_coef = weight / DEFAULT_PROJECTILE_WEIGHT;
■■float stopping_force = in_speedf * projectile_weight_coef * 0.5;
■ return stopping_force;
■}
...... Hit_Foliage.c - END ------
```

```
// ----- Hit Glass.c - START ------
class Hit_Glass: EffBulletImpactBase
■void Hit_Glass()
■■SetEnterParticle(ParticleList.IMPACT_GLASS_ENTER);
■■SetExitParticle(ParticleList.IMPACT_GLASS_EXIT);
■■SetRicochetParticle(ParticleList.IMPACT_GLASS_RICOCHET);
}
// ----- Hit Glass.c - END ------
// -----
// ----- Hit_Glass_Thin.c - START ------
class Hit_Glass_Thin: EffBulletImpactBase
■void Hit_Glass_Thin()
■■SetEnterParticle(ParticleList.IMPACT_GLASS_ENTER);
■■SetExitParticle(ParticleList.IMPACT_GLASS_EXIT);
■■SetRicochetParticle(ParticleList.IMPACT_GLASS_RICOCHET);
■}
}
// -----
// ----- Hit_Glass_Thin.c - END ------
// -----
class Hit_Grass : EffBulletImpactBase
■void Hit_Grass()
■■SetEnterParticle(ParticleList.IMPACT_GRASS_ENTER);
■■SetExitParticle(ParticleList.IMPACT_GRASS_ENTER);
■■SetRicochetParticle(ParticleList.IMPACT_GRASS_RICOCHET);
\blacksquare \blacksquare m_AngledEnter = 0.6;
// ----- Hit Grass.c - END ------
```

```
// ----- Hit Gravel.c - START ------
class Hit_Gravel : EffBulletImpactBase
■void Hit_Gravel()
■{
■■SetEnterParticle(ParticleList.IMPACT_GRAVEL_ENTER);
■■SetExitParticle(ParticleList.IMPACT_GRAVEL_EXIT);
■■SetRicochetParticle(ParticleList.IMPACT_GRAVEL_RICOCHET);
}
// ----- Hit Gravel.c - END -----
// ----- Hit_MeatBones.c - START ------
class Hit_MeatBones : EffBulletImpactBase
■float m_ScalingByDistance;
■void Hit_MeatBones()
■■SetEnterParticle(ParticleList.IMPACT_MEATBONES_ENTER);
■■SetExitParticle(ParticleList.IMPACT_MEATBONES_EXIT);
■■SetRicochetParticle(ParticleList.IMPACT_MEATBONES_RICOCHET);
■m_AngledEnter = 10;
■■m_EnterSplashCoef = 0.002;
■■m_ExitSplashCoef = 0.006;
■■m_ScalingByDistance = 0.05;
\blacksquareMIN_SCALING_PARAM = 0.2;
■}
■override float CalculateStoppingForce(float in_speedf, float out_speedf, string ammoType, float weight)
■■if ( m_ImpactType == ImpactTypes.MELEE )
■■ return 400;
}
■■float projectile_weight_coef = weight / DEFAULT_PROJECTILE_WEIGHT;
■■float stopping_force = in_speedf * projectile_weight_coef;
■■if (m_DirectHit)
 ■■■// TO DO: Doesn't work because IsAlive() is false, even when it shouldn't be.
■■■if ( m_DirectHit.IsMan() && m_componentIndex == SURVIVOR_HEAD && m_DirectHit.IsAlive() ) /
```

Stopping_force = stopping_force * 2;

```
// ----- Hit_MeatBones_MeleeFist.c - START ------
class Hit_MeatBones_MeleeFist : Hit_MeatBones
void Hit_MeatBones_MeleeFist()
■■SetSingleParticle(ParticleList.INVALID);
// ----- Hit_MeatBones_MeleeFist.c - END ------
// -----
// ----- Hit_MeatBones_MeleePipeWrench.c - START ------
class Hit_MeatBones_MeleePipeWrench : Hit_MeatBones
woid Hit_MeatBones_MeleePipeWrench()
// ----- Hit_MeatBones_MeleeShovel.c - START ------
class Hit_MeatBones_MeleeShovel : Hit_MeatBones
■void Hit_MeatBones_MeleeShovel()
// ----- Hit_MeatBones_MeleeShovel.c - END ------
// ----- Hit_MeatBones_MeleeWrench.c - START ------
// -----
```

class Hit MeatBones MeleeWrench : Hit MeatBones

```
// ----- Hit_Metal.c - START ------
class Hit_Metal: EffBulletImpactBase
■void Hit_Metal()
■■SetEnterParticle(ParticleList.IMPACT_METAL_ENTER);
■■SetExitParticle(ParticleList.IMPACT METAL EXIT);
■■SetRicochetParticle(ParticleList.IMPACT_METAL_RICOCHET);
}
// -----
// ----- Hit Metal.c - END -----
// -----
// ----- Hit_Plaster.c - START ------
class Hit_Plaster: EffBulletImpactBase
■void Hit_Plaster()
■■SetEnterParticle(ParticleList.IMPACT_PLASTER_ENTER);
■■SetExitParticle(ParticleList.IMPACT_PLASTER_EXIT);
■■SetRicochetParticle(ParticleList.IMPACT_PLASTER_RICOCHET);
■}
// -----
// ----- Hit Plaster.c - END -----
// -----
// ----- Hit_Plastic.c - START ------
class Hit_Plastic : EffBulletImpactBase
■void Hit_Plastic()
■■SetEnterParticle(ParticleList.IMPACT_PLASTIC_ENTER);
■■SetRicochetParticle(ParticleList.IMPACT_PLASTIC_ENTER);
■■SetExitParticle(ParticleList.IMPACT_PLASTIC_ENTER);
•}
// ----- Hit_Plastic.c - END ------
```

```
// ----- Hit Rubber.c - START ------
class Hit_Rubber : EffBulletImpactBase
■void Hit_Rubber()
■■SetEnterParticle(ParticleList.IMPACT_RUBBER_ENTER);
■■SetExitParticle(ParticleList.IMPACT_RUBBER_EXIT);
■■SetRicochetParticle(ParticleList.IMPACT_RUBBER_RICOCHET);
}
// ----- Hit_Rubber.c - END ------
// -----
// ----- Hit_Sand.c - START ------
class Hit_Sand : EffBulletImpactBase
■void Hit_Sand()
■■SetEnterParticle(ParticleList.IMPACT_SAND_ENTER);
■■SetRicochetParticle(ParticleList.IMPACT_SAND_ENTER);
■■SetExitParticle(ParticleList.IMPACT_SAND_ENTER);
■}
}
// -----
// ----- Hit_Sand.c - END -----
// ----- Hit_Textile.c - START -------
class Hit_Textile: EffBulletImpactBase
■void Hit_Textile()
■■SetEnterParticle(ParticleList.IMPACT_TEXTILE_ENTER);
■■SetRicochetParticle(ParticleList.IMPACT_TEXTILE_ENTÉR);
■■SetExitParticle(ParticleList.IMPACT_TEXTILE_EXIT);
■}
// ----- Hit_Textile.c - END ------
```

```
// ----- Hit_Undefined.c - START ------
class Hit_Undefined : EffBulletImpactBase
■void Hit_Undefined()
■■SetSingleParticle(ParticleList.IMPACT_TEST);
// ----- Hit_Undefined.c - END -------
// ----- Hit_Water.c - START ------
class Hit_Water : EffBulletImpactBase
■void Hit_Water()
■■SetSingleParticle(ParticleList.IMPACT_WATER_SMALL_ENTER);
■■m_AngledEnter = 10;
■override void EvaluateEffect(Object directHit, int componentIndex, vector pos, int impact_type, vector su
■■super.EvaluateEffect(directHit, componentIndex, pos, impact_type, surfNormal, exitPos, inSpeed, outS
■m_SurfNormal = "0 0 0";
■override float CalculateStoppingForce(float in_speedf, float out_speedf, string ammoType, float weight)
■■float projectile_weight_coef = weight / DEFAULT_PROJECTILE_WEIGHT;
■■float stopping_force = (in_speedf - out_speedf) * projectile_weight_coef;
■■if(stopping_force < 350)
■■■SetEnterParticle(ParticleList.IMPACT_WATER_SMALL_ENTER);
■■if ( stopping_force >= 350 && stopping_force < 750 )
■■■SetEnterParticle(ParticleList.IMPACT_WATER_MEDIUM_ENTER);
■■if (stopping_force >= 750)
■■■SetEnterParticle(ParticleList.IMPACT_WATER_LARGE_ENTER);
■■return stopping_force;
■}
■override void OnEnterCalculations( Particle p )
■■// no particle scaling
```

```
// ----- Hit_Wood.c - START ------
class Hit_Wood : EffBulletImpactBase
■void Hit_Wood()
■{
■■SetEnterParticle(ParticleList.IMPACT_WOOD_ENTER);
■■SetExitParticle(ParticleList.IMPACT_WOOD_EXIT);
■■SetRicochetParticle(ParticleList.IMPACT_WOOD_RICOCHET);
■override void OnEnterCalculations( Particle p )
■■// All values represent scale
■■float velocity min = MIN SCALING PARAM + (m StoppingForce * m EnterSplashCoef):
■■float velocity_max = MIN_SCALING_PARAM + (m_StoppingForce * m_EnterSplashCoef);
■■float size = MIN_SCALING_PARAM + ( m_StoppingForce * m_EnterSplashCoef)*0.5;
■■float birth_rate = MIN_SCALING_PARAM + (m_StoppingForce * m_EnterSplashCoef)*0.5;
■■if (velocity min < MIN SCALING PARAM)
■■■velocity_min = MIN_SCALING_PARAM;
■■if (size < MIN_SCALING_PARAM)
■■size = MIN_SCALING_PARAM;
■■if (birth rate < MIN SCALING PARAM)
■■■birth_rate = MIN_SCALING_PARAM;
■■p.ScaleParticleParam(EmitorParam.VELOCITY, velocity_min);
■ p.ScaleParticleParam(EmitorParam.VELOCITY_RND, velocity_max);
■■p.ScaleParticleParam(EmitorParam.SIZE, size);
■■p.ScaleParticleParam(EmitorParam.BIRTH_RATE, birth_rate);
|}
■override void OnExitCalculations(Particle p, float outSpeedf)
■■float velocity_min = 1 + (outSpeedf * m_ExitSplashCoef);
■■float velocity_max = 1 + (outSpeedf * m_ExitSplashCoef);
■■float size = 1 + (outSpeedf * m ExitSplashCoef)*0.5;
■■float birth_rate = 1 + (outSpeedf * m_ExitSplashCoef)*0.5;
■■if (velocity_min < MIN_SCALING_PARAM)
■■■velocity_min = MIN_SCALING_PARAM;
■■if (size < MIN_SCALING_PARAM)
■■size = MIN_SCALING_PARAM;
■■if (birth_rate < MIN_SCALING_PARAM)
■■■birth_rate = MIN_SCALING_PARAM;
■■p.ScaleParticleParam(EmitorParam.VELOCITY, velocity_min);
■ p.ScaleParticleParam(EmitorParam.VELOCITY_RND, velocity_max);
■■p.ScaleParticleParam(EmitorParam.SIZE, size);
■■p.ScaleParticleParam(EmitorParam.BIRTH_RATE, birth_rate);
■}
```

```
// ----- Hive.c - START ------
// -----
/** @file */
// -----
class Hive
private void Hive() {}
■private void ~Hive() {}
■proto native void InitOnline( string ceSetup, string host = "" );
■proto native void InitOffline();
■proto native void InitSandbox();
■proto native bool IsIdleMode();
proto native void SetShardID( string shard );
■proto native void SetEnviroment( string env );
■proto native void CharacterSave( Man player );
■proto native void CharacterKill( Man player );
■proto native void CharacterExit( Man player );
proto native void CallUpdater( string content );
};
proto native Hive CreateHive();
proto native void DestroyHive();
proto native Hive GetHive():
// -----
// ----- Hive.c - END -----
// -----
// -----
// ----- HockeyHelmet_ColorBase.c - START ------
// -----
class HockeyHelmet_ColorBase extends HelmetBase {};
class HockeyHelmet_Black extends HockeyHelmet_ColorBase {};
class HockeyHelmet_Blue extends HockeyHelmet_ColorBase {};
class HockeyHelmet_Red extends HockeyHelmet_ColorBase ();
class HockeyHelmet_White extends HockeyHelmet_ColorBase {};
// ----- HockeyHelmet_ColorBase.c - END ------
```

```
....// ----- HockeyMask.c - START ------
class HockeyMask extends Clothing
■override bool CanPutAsAttachment( EntityAl parent )
■■if (!super.CanPutAsAttachment(parent)) {return false;}
■■Clothing headgear = Clothing.Cast(parent.FindAttachmentBySlotName("Headgear"));
■■if ( headgear && (headgear.ConfigGetBool("noMask") && !PumpkinHelmet.Cast(headgear)) )
■■■return false;
——}
■■Clothing eyewear = Clothing.Cast(parent.FindAttachmentBySlotName("Eyewear"));
■■if ( eyewear && SportGlasses_ColorBase.Cast(eyewear) )
■ return false;
==}
■ return true;
// ----- HockeyMask.c - END ------//
// ----- HoldBreathEvents.c - START ------
class HoldBreathSoundEventBase extends PlayerSoundEventBase
■void HoldBreathSoundEventBase()
■■m_HasPriorityOverTypes = -1;
■override bool HasHoldBreathException()
■ return true;
class HoldBreathSoundEvent extends HoldBreathSoundEventBase
void HoldBreathSoundEvent()
■ Type = EPlayerSoundEventType.GENERAL;
■■m_IĎ = EPlayerSoundEventID.HOLD_BREATH;
■■m_SoundVoiceAnimEventClassID = 20;
```

override hool HasPriorityOverCurrent(PlayerBase player_EPlayerSoundEventID other_state_id_EPlayer

```
// ----- Hologram.c - START -----
class Hologram
■#ifdef SERVER
■protected const int SPAWN_FLAGS ■= ECE_CREATEPHYSICS;
■protected const int SPAWN_FLAGS ■= ECE_LOCAL;
■#endif
■protected const string SUFFIX_MATERIAL_DEPLOYABLE ■= "_deployable.rvmat";
■protected const string SUFFIX_MATERIAL_UNDEPLOYABLE = "_undeployable.rvmat";
■protected const string SUFFIX_MATERIAL_POWERED ■■= "_powered.rvmat";
■protected ItemBase ■■■m_Parent;
■protected EntityAl ■■■m_Projection;
■protected PlayerBase ■■m_Player;
protected ProjectionTrigger m_ProjectionTrigger;
■protected string■■■m_ProjectionTypename;
■protected bool ■■■■m_IsColliding;
■protected bool ■■■■m_IsCollidingGPlot;
■protected bool ■■■■m_lsSlope;
■protected bool ■■■■m_IsCollidingPlayer;
■protected bool ■■■■m_lsFloating;
■protected bool ■■■■m UpdatePosition:
■protected bool ■■■■m_lsHidden;
■protected vector ■■■m_DefaultOrientation;
■protected vector ■■ m_Rotation;
■ protected vector ■ ■ m_y_p_r_previous; ■ protected vector ■ ■ m_ContactDir;
■protected vector ■■■m_FromAdjusted;
■protected const string ■■ANIMATION_PLACING ■■■■= "Placing";
■protected const string ■■ANIMATION_INVENTORY ■■■= "Inventory";
■protected const string ■■SELECTION_PLACING ■■■■= "placing";
■protected const string ■■SELECTION_INVENTORY ■■■= "inventory";
■protected const float ■■SMALL_PROJECTION_RADIUS ■■= 1;
■protected const float ■■SMALL_PROJECTION_GROUND ■■= 2;
■protected const float■■DISTANCE_SMALL_PROJECTION■■= 1; //! Deprecated
■ protected const float ■■LARGE_PROJECTION_DISTANCE_LIMIT ■= 6; ■ protected const float ■■PROJECTION_TRANSITION_MIN■■= 1;
■protected const float ■■PROJECTION_TRANSITION_MAX■■= 0.25;
protected const float ■■LOOKING_TO_SKY■■■■= 0.75;
■static const float ■■■DEFAULT_MAX_PLACEMENT_HEIGHT_DIFF = 1.5;
■protected float ■■■m_SlopeTolerance;
■protected bool
■■■m_AlignToTerrain;
■protected vector ■■■m_YawPitchRollLimit;
■protected int■■■m_ContactComponent;
■protected ref set<string> ■m_SelectionsToRefresh ■■■= new set<string>;
■// Watchtower correction variables
■// These watchtower component names should be corrected when colliding with them as they are suppose
■static const protected ref array<string>■m_WatchtowerlgnoreComponentNames■= new array<string>;
■// These watchtower components are supposed to be trigger boxes, but should block placement on them
```

Istatic const protected ref array/string.■m. WatchtowerRlockedComponentNames■– new array/strings

```
class Hoodie_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class Hoodie_Blue extends Hoodie_ColorBase {};
class Hoodie_Black extends Hoodie_ColorBase {};
class Hoodie_Brown extends Hoodie_ColorBase {}; class Hoodie_Green extends Hoodie_ColorBase {};
class Hoodie_Grey extends Hoodie_ColorBase {}; class Hoodie_Red extends Hoodie_ColorBase {};
// ----- Hoodie_ColorBase.c - END ------//
// -----
// ----- HorizontalSpacer.c - START ------//
class HorizontalSpacer : SpacerBase
■reference int Border;
■reference int Gap;
■override protected void UpdateChild(Widget child, float w, float h, int index)
■■float itemWidth = (w - (Border * 2) - ((m_count - 1) * Gap)) / m_count;
■■float itemHeight = h - (2 * Border);
■■child.SetPos(Border + ((itemWidth + Gap) * index), Border);
■ child.SetSize(itemWidth, itemHeight):
■■if(child.GetChildren())
■■■Widget c = child.GetChildren();
■■■RightGap gap;
■■■c.ĞetScript(gap);
■■■if(gap)
■■■gap.OnUpdate(c);
■■■//gap.Update();
};
// ----- HorizontalSpacer.c - END ------
```

```
...
// ----- HorizontalSpacerWithFixedAspect.c - START --------//
class HorizontalSpacerWithFixedAspect: ScriptedWidgetEventHandler
■protected Widget m_root;
■reference int border;
■reference int gap;
■reference float coef;
■float itemWidth:
■float itemHeight;
I// -----
■void OnWidgetScriptInit(Widget w)
\blacksquare m_{root} = w;
■■m_root.SetHandler(this);
I// -----
■override bool OnUpdate(Widget w)
■if (w == m_root) UpdateLayout();
■ return false;
protected void UpdateLayout()
■■Widget child = m_root.GetChildren();
\blacksquare int index = 0;
■■■while (child)
■■■if( index == 0 )
■■■child.GetScreenSize(itemWidth, itemHeight);
Example se
----
■■■■child.SetFlags(WidgetFlags.EXACTPOS, false);
■■■■child.SetPos(itemWidth+(itemWidth*coef), 0):
}
■■■index++;
■■■child = child.GetSibling();
■■}
|
};
// ----- HorizontalSpacerWithFixedAspect.c - END ------
```

```
// ----- HotState.c - START ------
class HotSymptom extends SymptomBase
■//this is just for the Symptom parameters set-up and is called even if the Symptom doesn't execute, don't
■override void OnInit()
■■m_SymptomType = SymptomTypes.PRIMARY;
\blacksquare m_Priority = 1
■■m_ID = SymptomIDs.SYMPTOM_HOT;
■■m_DestroyOnAnimFinish = true;
■■m_SyncToClient = false;
■■m_MaxCount = 2;
■//!gets called every frame
■override void OnUpdateServer(PlayerBase player, float deltatime)
■}
■override void OnUpdateClient(PlayerBase player, float deltatime)
■override void OnAnimationPlayFailed()
■override bool CanActivate()
 ■■return true;
■//!gets called once on an Symptom which is being activated
■override void OnGetActivatedServer(PlayerBase player)
■■if (LogManager.IsSymptomLogEnable()) Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetActivation of the companion of 
  ■■HùmanMovementState hms = new HumanMovementState();
■■player.GetMovementState(hms);
■■ÎtemBase item = m_Player.GetItemInHands();
■■if(!(item && item.IsHeavyBehaviour()) && m_Manager.GetCurrentCommandID() == DayZPlayerConsta
■■PlayAnimationADD(3);
 ■■}
■else
  ■■■PlaySound(EPlayerSoundEventID.HOT);
 ■■}
|
■//!gets called once on a Symptom which is being activated
■override void OnGetActivatedClient(PlayerBase player)
■■if (LogManager.IsSymptomLogEnable()) Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetActivation of the company of the
```

I/lonly gets called once on an active Symptom that is being deactivated

```
// ----- HouseBlock_1F1.c - START -----
class Land_HouseBlock_1F1 extends BuildingWithFireplace
// ----- HouseBlock_1F1.c - END ------
// -----
// ----- HouseBlock_1F3.c - START ------
// -----
class Land_HouseBlock_1F3 extends BuildingWithFireplace
// -----
// ----- HouseBlock_1F3.c - END ------
// ----- HouseBlock_1F4.c - START ------
class Land_HouseBlock_1F4 extends BuildingWithFireplace
// -----
// ----- HouseBlock_1F4.c - END -----
// ----- HouseBlock_2F1.c - START ------
// -----
class Land_HouseBlock_2F1 extends BuildingWithFireplace
// ----- HouseBlock_2F1.c - END ------
```

```
// ----- HouseBlock_2F8.c - START ------
class Land_HouseBlock_2F8 extends BuildingWithFireplace
// ----- HouseBlock_2F8.c - END ------
// -----
// ----- HouseBlock_2F9.c - START ------
// -----
class Land_HouseBlock_2F9 extends BuildingWithFireplace
// -----
// ----- HouseBlock_2F9.c - END ------
// -----
// ----- HouseBlock_3F2.c - START ------
class Land_HouseBlock_3F2 extends BuildingWithFireplace
// -----
// ----- HouseBlock_3F2.c - END ------
// ----- HouseBlock_5F.c - START ------
// -----
class Land_HouseBlock_5F extends BuildingWithFireplace
// ----- HouseBlock_5F.c - END ------
// -----
```

```
// ----- HoverEffect.c - START ------//
class HoverEffect: ScriptedWidgetEventHandler
■reference float speed;■reference float amount;
■protected float m_orginal_width;
■protected float m_orginal_height;
■protected Widget m_root;
■protected ref AnimatorTimer m_anim;
■void HoverEffect()
■m_anim = new AnimatorTimer();
■void OnWidgetScriptInit(Widget w)
\blacksquarem_root = w;
■■m_root.SetHandler(this);
■protected void Update()
■Ifloat p = amount * m_anim.GetValue();
■■m_root.SetSize(m_orginal_width + (m_orginal_width * p), m_orginal_height + (m_orginal_height * p));
float c = 1.0 - (0.5 * m_anim.GetValue());

m_root.SetColor(ARGBF(1, 1, c, c));
|
■override bool OnMouseEnter(Widget w, int x, int y)
■■if (!m_anim.lsRunning()) m_root.GetSize(m_orginal_width, m_orginal_height);
■■m_anim.Animate(1.0, speed);
■ return false:
■}
I// -----
■override bool OnMouseLeave(Widget w, Widget enterW, int x, int y)
■ m_anim.Animate(0.0, speed);
■ return false;
■}
};
// -----
// ----- HoverEffect.c - END ------
```

```
----- HoxtonMask.c - START ------
class HoxtonMask extends ClothingBase
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■bool headgear_present = false;
■■if ( parent.FindAttachmentBySlotName( "Headgear" ) )
■■■headgear_present = parent.FindAttachmentBySlotName( "Headgear" ).ConfigGetBool( "noMask" );
■■if ( ( GetNumberOfItems() == 0 || !parent || parent.lsMan() ) && !headgear_present )
■■return true;
■■}
■■return false;
// ----- HoxtonMask.c - END ------
// ----- HudDebug.c - START -----
//! PluginDayzPlayerDebugUI
class HudDebugEventHandler extends ScriptedWidgetEventHandler
■HudDebug m_HudDebug;
■void HudDebugEventHandler( HudDebug hud_debug )
■■m_HudDebug = hud_debug;
■HudDebug GetHudDebug()
■■return m_HudDebug;
■}
■override bool OnClick( Widget w, int x, int y, int button )
■■super.OnClick( w, x, y, button );
■■return GetHudDebug().OnClick( w, x, y, button );
■override bool OnFocus(Widget w, int x, int y)
■ Print("OnFocus");
```

```
// ----- HudDebugWinBase.c - START -----
class HudDebugWinBase
■Widget m_WgtRoot;
■protected bool m_Show;
■protected bool m_RPCSent;
I//-----
■// Constructor
■void HudDebugWinBase( Widget widget_root )
■m_WgtRoot = widget_root;
■// GetType
■int GetType()
■ return HudDebug.HUD_WIN_UNDEFINED;
■void Init( Widget widget_root );
■void SetUpdate( bool state );
■void Update()
■{
■ if(m_Show && !m_RPCSent)
■■SetUpdate(true);
■■}
■// SetUpdate
■void SetRPCSent()
■{
■■m_RPCSent = true;
■// Show
■void Show()
■m_WgtRoot.Show(true);
\blacksquare \blacksquare m\_Show = true;
■void Hide()
```

```
----- HudDebugWinCharAgents.c - START -----
class DebugAgentData
■string m_Name;
■int m_ID;
■void DebugAgentData( string name, int id )
\blacksquare \blacksquare m_Name = name;
\blacksquare \blacksquare m_ID = id;
■}
■string GetName()
■■return m_Name;
■int GetID()
■■return m_ID;
class HudDebugWinCharAgents extends HudDebugWinBase
■protected Widget m_WgtAgents;
■protected ref array<ref Widget> m_AgentWidgets = new array<ref Widget>;
■protected ref map<Widget, ref DebugAgentData> m_AgentWidgetData = new map<Widget, ref DebugAgentData</p>
I//-----
■// HudDebugWinCharAgents
■void HudDebugWinCharAgents( Widget widget_root )
[
■ m_WgtRoot = widget_root;
■■//m_WgtAgents = TextListboxWidget.Cast( m_WgtRoot.FindAnyWidget( "txl_CharAgents_Values" ) );
m_WgtAgents = m_WgtRoot.FindAnyWidget( "AgentList" );
■■//FitWindowByContent( m_WgtAgents );
■void ~HudDebugWinCharAgents()
■SetUpdate(false);
■// GetWinType
■override int GetType()
■■return HudDebug.HUD_WIN_CHAR_AGENTS;
■override void SetUpdate( bool state )
```

```
// ----- HudDebugWinCharDebug.c - START ------
class HudDebugWinCharDebug extends HudDebugWinBase
■private PluginDeveloper m_ModuleDeveloper;
■private TextWidget ■■m_PlayerPosTextWidget;
■private TextWidget ■■m ClipboardTextWidget:
I//----
■// HudDebugWinCharDebug
■void HudDebugWinCharDebug(Widget widget root)
{
■m_PlayerPosTextWidget = TextWidget.Cast( widget_root.FindAnyWidget("txt_PlayerPos") );
■■m_ClipboardTextWidget = TextWidget.Cast( widget_root.FindAnyWidget("txt_Clipboard") );
■void ~HudDebugWinCharDebug()
{
■// Update
■override void Update()
■isuper.Update();
■■PlayerBase player = PlayerBase.Cast( GetGame().GetPlayer() );
■■if (player != NULL)
----
■■■vector pos = player.GetPosition();
■■■string pos_str = "Pos: " + pos[0].ToString() + " " + pos[2].ToString();
■■■m_PlayerPosTextWidget.SetText(pos_str);
——}
■■string clipboard;
■■GetGame().CopyFromClipboard(clipboard);
■■clipboard = clipboard.Substring(0, Math.Min(clipboard.Length(), 128));■//max 128 chars
■■clipboard = "Clipboard: " + clipboard;
■■m_ClipboardTextWidget.SetText(clipboard);
■// GetWinType
■override int GetType()
■■return HudDebug.HUD_WIN_CHAR_DEBUG;
```

// ----- HudDebugWinCharDebug c - FND -------

```
// ----- HudDebugWinCharLevels.c - START -----
class HudDebugWinCharLevels extends HudDebugWinBase
TextListboxWidget■■■m_WgtValues;
■// Constructor
■void HudDebugWinCharLevels(Widget widget_root)
■ m_WgtValues = TextListboxWidget.Cast( widget_root.FindAnyWidget("txl_CharLevels_Values") );
■FitWindow();
■}
I//----
■// Destructor
■void ~HudDebugWinCharLevels()
[
■■SetUpdate( false );
■// GetWinType
■override int GetType()
■ return HudDebug.HUD_WIN_CHAR_LEVELS;
■// Show
■override void Show()
■isuper.Show();
■■//Print("Show()");
■■SetUpdate( true );
■// Hide
■override void Hide()
■■super.Hide();
■■//Print("Hide()");
■■SetUpdate( false );
|
```

■// SetUpdate

```
// ----- HudDebugWinCharModifiers.c - START ------
class DebugModifierData
■string m_Name;
■int m_ID;
■void DebugModifierData( string name, int id )
■■m_Name = name;
\blacksquare \blacksquare m_ID = id;
■}
■string GetName()
■■return m_Name;
■int GetID()
■■return m_ID;
■}
class HudDebugWinCharModifiers extends HudDebugWinBase
■protected Widget■■■■■■■■■■■■■■■■■■■wgtModifiersContent;
■protected ref array<ref Widget>■■■■■■■■■ModifierWidgets;
■protected ref map<Widget, ref DebugModifierData>■■m_ModifierWidgetData;
■protected PluginDeveloperSync m_PluginDeveloperSync;
■protected Widget ■■■■■■■■■■■m_WgtDetailedInfo;
■protected TextWidget ■■■■■■■■■ WgtDetailedInfoText;
protected int
//m_RPCSent
■// HudDebugWinCharModifiers
■void HudDebugWinCharModifiers( Widget widget_root )
■■m_WgtRoot = widget_root;
■■m_WgtModifiersContent = Widget.Cast( m_WgtRoot.FindAnyWidget( "pnl_CharModifiers_Values" ) );
■■m_ModifierWidgets = new array<ref Widget>;
■■m_ModifierWidgetData = new map<Widget, ref DebugModifierData>;
■■m_PluginDeveloperSync = PluginDeveloperSync.Cast( GetPlugin( PluginDeveloperSync ) );
■}
■void ~HudDebugWinCharModifiers()
■■SetUpdate( false );
■// GetWinType
■override int GetType()
■■return HudDebug.HUD_WIN_CHAR_MODIFIERS;
```

```
// ----- HudDebugWinCharStats.c - START -----
class HudDebugWinCharStats extends HudDebugWinBase
■TextListboxWidget■■■■■m_WgtValues;
■Widget■■■■■■■■m_WgtPanel;
■ref array<ref Widget> ■■■■■m_StatWidgets = new array<ref Widget>;
■ref map <ref SliderWidget, string> ■■m_SliderWidgets = new map <ref SliderWidget, string>;
■ref array<ref TextWidget> ■■■■m_StatValues = new array<ref TextWidget>;
■ref map<ref EditBoxWidget, string> ■■m_StatValuesInput = new map<ref EditBoxWidget, string>;
■bool■■■■■■■■■m_Populated;
■bool■■■■■■■■■m_ChangingSlider;
■// Constructor
■void HudDebugWinCharStats(Widget widget_root)
■ WqtRoot = widget root:
■■m_WgtPanel = Widget.Cast(m_WgtRoot.FindAnyWidget("Stats"));
■■//FitWindow():
■// Destructor
■void ~HudDebugWinCharStats()
{
■■SetUpdate( false );
■// GetWinType
I//-----
■override int GetType()
■■return HudDebug.HUD_WIN_CHAR_STATS;
■// Show
■override void Show()
■ super.Show();
■■//Print("Show()");
■■SetUpdate( true );
■// Hide
■override void Hide()
■super.Hide();
```

■■//Print("Hide()"):

```
// ----- HudDebugWinCharStomach.c - START ------
class HudDebugWinCharStomach extends HudDebugWinBase
■TextListboxWidget■■■m_WgtValues;
■TextWidget■■■■■m_WgtOverall;
I//----
■// Constructor
■void HudDebugWinCharStomach(Widget widget_root)
■ MgtValues = TextListboxWidget.Cast( widget_root.FindAnyWidget("txl_StomachContents") );
■■m_WgtOverall = TextWidget.Cast( widget_root.FindAnyWidget("InfoOverall") );
■■//FitWindow():
■}
■// Destructor
■void ~HudDebugWinCharStomach()
■SetUpdate(false);
■}
■// GetWinType
■override int GetType()
■ return HudDebug.HUD_WIN_CHAR_STOMACH;
■}
■override void Show()
■■super.Show();
■■//Print("Show()");
■■SetUpdate( true );
■}
I//----
■// Hide
■override void Hide()
■■super.Hide();
■■//Print("Hide()");
■■SetUpdate( false );
```

■// SetLIndate

```
----- HudDebugWinTemperature.c - START ------
class HudDebugWinTemperature extends HudDebugWinBase
■private PluginDeveloper ■■m_ModuleDeveloper;
■private TextWidget ■■■■m_EnviroTextWidget;
■protected PluginDeveloperSync ■m_PluginDeveloperSync;
I//-----
■// HudDebugWinTemperature
■void HudDebugWinTemperature(Widget widget_root)
m_EnviroTextWidget = TextWidget.Cast( widget_root.FindAnyWidget("txt_Temp") );
■■m_PluginDeveloperSync = PluginDeveloperSync.Cast( GetPlugin( PluginDeveloperSync ) );
■}
■// ~HudDebugWinTemperature
■void ~HudDebugWinTemperature()
■{
■// Set Update
■override void SetUpdate( bool state )
■■//Disable update on server (PluginDeveloperSync)
■■PlayerBase player = PlayerBase.Cast( GetGame().GetPlayer() );
■■//if client, send RPC
■■if ( GetGame().IsClient() )
■■CachedObjectsParams.PARAM1_BOOL.param1 = state;
■■if (player)
■■■■player.RPCSingleParam( ERPCs.DEV_TEMP_UPDATE, CachedObjectsParams.PARAM1_BOOL,
■■■■SetRPCSent():
}
■■//else set directly
else
■■■if ( m_PluginDeveloperSync )
■■■■m_PluginDeveloperSync.EnableUpdate( state, ERPCs.DEV_TEMP_UPDATE, player );■
| ||
■// Show / Hide
■override void Show()
```

■isuper.Show();

```
// ----- HudDebugWinVersion.c - START ------
class HudDebugWinVersion extends HudDebugWinBase
private PluginDeveloper m_ModuleDeveloper;
■private TextWidget ■■m_VersionTextWidget;
■// HudDebugWinVersion
■void HudDebugWinVersion(Widget widget_root)
■ TextWidget = TextWidget.Cast( widget_root.FindAnyWidget("txt_Version") );
■string version;
■■g_Game.GetVersion(version);
■■m_VersionTextWidget.SetText(string.Format("exe: %1 | scripts: %2", version, GetPBOAPI().GetPBOVersionTextWidget.SetText(string.Format("exe: %1 | scripts: %2", version, GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOAPI().GetPBOA
■}
■// ~HudDebugWinVersion
■void ~HudDebugWinVersion()
■}
■// Update
■override void Update()
■■super.Update();
■// GetWinType
■override int GetType()
■ireturn HudDebug.HUD_WIN_VERSION;
■}
// ----- HudDebugWinVersion.c - END ------
// ----- human.c - START ------
/** @file
```

this file is interface to Human

```
// ----- HumanInventory.c - START ------
/**@class■■HumanInventory
  @brief■■inventory for plain man/human
  HumanInventory has simple synchronous operations only, i.e.
  no animations are involved while adding/removing/swapping to/from hands.
* Animations are added on higher level of hierarchy (DayZPlayerInventory for example)
class HumanInventory: GameInventory
■int m_syncClearUserReservationindex = -1;
■//int m_UserReservationToClear = -1;
■/**@fn■■■GetEntityInHands
■ * @return■■entity in hands
■proto native EntityAl GetEntityInHands ();
■/**@fn■■■CanAddEntityInHands
■ * @brief■■alternative for TestAddEntityInHands(e, true, true, true);
■proto native bool CanAddEntityInHands (EntityAl e);
■/**@fn■■■TestAddEntityInHands
■ * @param[in] ■e■entity to test for taking in hands
■ * @param[in]■do_item_check■■deny if entity is not InventoryItem

* @param[in] do_occupancy_test deny if there is item in hands already
* @param[in] do_script_check deny if script conditions fail

* @return true if item passed all tests
■proto native bool TestAddEntityInHands (EntityAl e, bool do_resevation_check, bool do_item_check, bool
■/**@fn■■■CanRemoveEntityInHands
■ * @return■■true if entity can be removed from hands
■proto native bool CanRemoveEntityInHands ();
■proto native bool CanOpenInventory();
■/**@fn■■■CreateInHands
■ * @brief■■creates new entity in hands
■ * @param[in]■typeName type name of the entity to be created
* @return new entity or null otherwise
■proto native EntityAl CreateInHands (string typeName);
■proto native int GetUserReservedLocationCount ();
■proto native int FindUserReservedLocationIndex (notnull EntityAl e);
■proto native int FindCollidingUserReservedLocationIndex (notnull EntityAl e, notnull InventoryLocation des
■proto native void GetUserReservedLocation (int index, out notnull InventoryLocation dst);
■proto native int FindFirstUserReservedLocationIndexForContainer(notnull ÉntityAl e);
■proto native void SetUserReservedLocation (notnull EntityAl eai, notnull InventoryLocation dst);
■proto native void ClearUserReservedLocation (notnull EntityAl eai);
■proto native bool ClearUserReservedLocationAtIndex (int index);
■proto native void ClearUserReservedLocationForContainer (notnull EntityAl eai);
■proto native bool GetDebugFlag ();
```

```
// ----- HumanInventoryWithFSM.c - START ------
  @class HumanInventoryWithFSM
* @brief■HumanInventory... with FSM (synchronous, no anims)
class HumanInventoryWithFSM: HumanInventory
■protected ref HandFSM m_FSM; /// hand slot state machine
■protected ref HandStateBase m_Empty;
■protected ref HandStateBase m_Equipped;
■void HumanInventoryWithFSM ()
■■m_FSM = new HandFSM();
■void CreateStableStates ()
■■// stable states are created only if they do not exist already (for example created by derived class like D
■■// @NOTE: this cannot be done in constructor, as there is NO owner set yet. GetManOwner() will there
■■if (!m_Empty)
■■■m_Empty = new HandStateEmpty(GetManOwner());
■■if (!m_Equipped)
■■m_Equipped = new HandStateEquipped(GetManOwner());
■override void Init ()
■■// setup state machine
■■hndDebugPrint("[hndfsm] Initializing Human Inventory FSM");
■■// basic states
■■CreateStableStates();
■■// events
■■HandEventBase __T_ = new HandEventTake;
■■HandEventBase __D_ = new HandEventDrop;
■HandEventBase __Tw_ = new HandEventThrow;
■■HandEventBase __M_ = new HandEventMoveTo;
■■HandEventBase __W_ = new HandEventSwap;
■■HandEventBase __F_ = new HandEventForceŚwap;
■■HandEventBase __X_ = new HandEventDestroy;
■■HandEventBase __Xd_ = new HandEventDestroyed;
■■HandEventBase __R_ = new HandEventDestroyAndReplaceWithNew;
■■HandEventBase __Re_ = new HandEventDestroyAndReplaceWithNewElsewhere;
■■HandEventBase __Rh_ = new HandEventDestroyElsewhereAndReplaceWithNewInHands;
■■HandEventBase __Rd_ = new HandEventReplaced;
■■HandEventBase __Cd_ = new HandEventCreated;
■■HandEventBase _fin_ = new HandEventHumanCommandActionFinished;
■■HandEventBase _abt_ = new HandEventHumanCommandActionAborted;
■■HandReplacingItemInHands replacing = new HandReplacingItemInHands(GetManOwner());
■■HandReplacingItemInHands replacingElsewhere = new HandReplacingItemInHands(GetManOwner());
■■HandReplacingItemElsewhereWithNewInHands replacingElsewhere3 = new HandReplacingItemElsewhere
■■// setup transitions
■■m_FSM.AddTransition(new HandTransition( m_Empty , __T__, m_Equipped, new HandActionTake, 
■■m_FSM_AddTransition(new HandTransition( m_Empty , __T__, m_Equipped, new HandActionCreate
```

```
// ----- humansettings.c - START ------
class SHumanGlobalSettings
■private void SHumanGlobalSettings() {}
■private void ~SHumanGlobalSettings() {}
■float■■m_fPhysMoveMaxTracedDistance;■■//!<■when actual phys step is lower than this -> distance is
class SHumanCommandMoveSettings
■private void SHumanCommandMoveSettings() {}
■private void ~SHumanCommandMoveSettings() {}
■float ■■m_fRunSpringTimeout;■■■■//!< filter span value■■[s]
■float■■m_fRunSpringMaxChange;■■■■//!< filter speed value■■[val/s]
■float■■m_fDirFilterTimeout;■■■■//!< direction filter timeout [s]
■float■■m_fDirFilterSprintTimeout;■■■//!< sprint direction filter timeout [s]
■float■■m_fDirFilterSpeed;■■■■■//!< direction filter max rot speed [rad/s]
■float■■m_fMaxSprintAngle;■■■■■//!< max sprint angle [rad]
■float ■■m_fTurnAngle;■■■■■■//!< when character starts to turn (45 deg default)
■float ■■m_fTurnEndUpdateNTime;■■■■//!< when turn values are not updated anymore (normalized tir
■float ■■m_fTurnNextNTime;■■■■■//!< when next turn is started from previous turn
■float■■m_fSlidingPoseAngle;■■■■//!< angle (0.707 * PI)■- when angle is bigger - sliding pose is done
■float■■m_fSlidingPoseTrackTime;■■■//!< time change of angle is tracked in the past (sec)
■float■■m_fSlidingPoseRepTime;■■■■//!< not to do sliding pose after another sliding pose (sec)
■float■■m_fHeadingChangeLimiterIdle;
■float■■m_fHeadingChangeLimiterWalk;
■float■■m_fHeadingChangeLimiterRun;
■float■■m_fLeaningSpeed;
■float■■m_fWaterLevelSpeedRectrictionLow;■//!< Water level (in meters) - m_iMaxSpeedNormal_Water</p>
■float■■m_fWaterLevelSpeedRectrictionHigh; ■//!< Water level (in meters) - m_iMaxSpeedNormal_Wate
■int■■■m_iMaxSpeedNormal_WaterLevelLow;■//!< Max movement speed for m_fWaterLevelSpeedRed</p>
■int■■■m_iMaxSpeedFast_WaterLevelLow;■■//!< Max movement speed for m_fWaterLevelSpeedRection
■int■■■m_iMaxSpeedNormal_WaterLevelHigh;■//!< Max movement speed for m_fWaterLevelSpeedRed</p>
■int■■■m_iMaxSpeedFast_WaterLevelHigh;■■//!< Max movement speed for m_fWaterLevelSpeedRect</p>
class SHumanCommandSwimSettings
■private void SHumanCommandSwimSettings() {}
■private void ~SHumanCommandSwimSettings() {}
■float ■■m_fAlignIdleTimeout;■■■■//! align filters in idle, slow, fast
■float ■■m_fAlignIdleMaxChanged;■
■float ■■m_fAlignSlowTimeout;■■
■float ■■m_fAlignSlowMaxChanged;■
■float ■■m_fAlignFastTimeout;■■
■float ■■m_fAlignFastMaxChanged;■
```

float m_fMovementSpeed;

```
// ----- HumanSteakMeat.c - START ------
class HumanSteakMeat extends Edible_Base
■void HumanSteakMeat()
■InsertAgent(eAgents.BRAIN, 1);
■override bool CanBeCooked()
■ return true;
■override bool CanBeCookedOnStick()
■ return true;
■override bool IsMeat()
■ return true;
■override bool CanDecay()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatMeat);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
// -----
// ----- HumanSteakMeat.c - END ------
// ----- Hunger.c - START ------
class HungerMdfr: ModifierBase
■protected float■m_EnergyDelta;
■protected float■m_LastEnergyLevel;
■ref HumanMovementState■■m_MovementState■= new HumanMovementState();
```

Override void Init()

```
// ----- HungerNotfr.c - START ------
class HungerNotfr: NotifierBase
■ protected const float ■ DEC_TRESHOLD_LOW ■ ■ = 0; ■ protected const float ■ DEC_TRESHOLD_MED ■ = -0.35; ■ protected const float ■ DEC_TRESHOLD_HIGH■ = -0.57;
■ protected const float ■INC_TRESHOLD_LOW ■ ■ 0; ■ protected const float ■INC_TRESHOLD_MED ■ 0.35; ■ protected const float ■INC_TRESHOLD_HIGH■ 0.57;
■void HungerNotfr(NotifiersManager manager)
■override int GetNotifierType()
■■return eNotifiers.NTF_HUNGRY;
■override void DisplayTendency(float delta)
■■//PrintString("delta:"+delta.ToString());
■■int tendency = CalculateTendency(delta, INC_TRESHOLD_LOW, INC_TRESHOLD_MED, INC_TRES
■■//GetVirtualHud().SetStatus(eDisplayElements.DELM_TDCY_ENERGY,tendency);
 ■■//DSLevels level = DetermineLevel( GetObservedValue(), PlayerConstants.THRESHOLD_ENERGY_V
■■EStatLevels energy_level = m_Player.GetStatLevelEnergy();
■■DisplayElementTendency dis_elm = DisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElement
■■if( dis_elm )
 ■■■dis_elm.SetTendency(tendency);
■■■dis_elm.SetSeriousnessLevel(energy_level);
}
■■Print("water:"+ typename.EnumToString(EStatLevels,m_Player.GetStatLevelWater()));
■■Print("energy:"+ typename.EnumToString(EStatLevels,m_Player.GetStatLevelEnergy()));
■■Print("health:"+ typename.EnumToString(EStatLevels,m_Player.GetStatLevelHealth()));
■■Print("blood:"+ typename.EnumToString(EStatLevels,m_Player.GetStatLevelBlood()));
*/
■}
■override void DisplayBadge()
■override void HideBadge()
 ■override float GetObservedValue()
```

■ return m Player GetStatEnergy() Get():

```
// ----- HungerSoundHandler.c - START ------
class HungerSoundHandlerBase extends SoundHandlerBase
■override void Init()
■m_Id = eSoundHandlers.HUNGER;
// Client
class HungerSoundHandlerClient extends HungerSoundHandlerBase
 `■const float SOUND_INTERVALS_LIGHT_MIN = 10;
■const float SOUND_INTERVALS_LIGHT_MAX = 30;
 ■float m_SoundTime;
■EffectSound m_Sound;
■override void Update()
■if ( m_Player.GetMixedSoundStates() & eMixedSoundStates.HUNGRY )
■ProcessSound();
■■}
■void ProcessSound()
■■if ( GetGame().GetTime() > m_SoundTime)
■■Ifloat offset_time = Math.RandomFloatInclusive(SOUND_INTERVALS_LIGHT_MIN, SOUND_INTERVALS_LIGHT_MIN, SOUND_INTERVALS_LIGHT_M
■■■m_SoundTime = GetGame().GetTime() + offset_time;
■■■PlaySound();
——}
■}
■void PlaySound()
■m_Sound = SEffectManager.PlaySoundOnObject("hungry_uni_Voice_Char_SoundSet", m_Player);
■■if( m_Sound )
■■m_Sound.SetAutodestroy(true);
■■}
■■else
■■Debug.LogError("Missing sounset");
——}
|
//-----
// Server
```

class HungerSoundHandlerServer extends HungerSoundHandlerBase

```
// ----- HunterPants_ColorBase.c - START -----
class HunterPants_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes):
class HunterPants_Autumn extends HunterPants_ColorBase {};
class HunterPants_Brown extends HunterPants_ColorBase {};
class HunterPants_Spring extends HunterPants_ColorBase {}; class HunterPants_Summer extends HunterPants_ColorBase {};
class HunterPants_Winter extends HunterPants_ColorBase {};
// ----- HunterPants_ColorBase.c - END ------
// -----
// ----- HuntingBag.c - START ------//
class HuntingBag : Clothing {};
// ----- HuntingBag.c - END ------//
// -----
// ----- HuntingJacket_ColorBase.c - START ------
class HuntingJacket_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class HuntingJacket_Autumn extends HuntingJacket_ColorBase {};
class HuntingJacket_Brown extends HuntingJacket_ColorBase {};
class HuntingJacket_Spring extends HuntingJacket_ColorBase ();
class HuntingJacket_Summer extends HuntingJacket_ColorBase {}; class HuntingJacket_Winter extends HuntingJacket_ColorBase {};
// ----- HuntingJacket_ColorBase.c - END ------
```

```
...// ----- HuntingKnife.c - START ------
class HuntingKnife extends ToolBase
■override bool IsMeleeFinisher()
■ return true;
■override array<int> GetValidFinishers()
■ return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionBurnSewTarget);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionSkinning);
■■AddAction(ActionMineBush);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionBurnSewSelf);
■■AddAction(ActionDigWorms);
■■AddAction(ActionShaveTarget);
■■AddAction(ActionDisarmMine);
■■AddAction(ActionDisarmExplosive);
■■AddAction(ActionShave);
|
// ------
// ----- HuntingKnife.c - END -------//
// -----
// ----- HuntingOptic.c - START ------
class HuntingOptic extends ItemOptics
■EntityAl m_Parent;
■void HuntingOptic()
■ HideSelection("rings_ris");
■■HideSelection("rings_ris_pilot");
■}
■override void OnWasAttached( EntityAl parent, int slot_id )
■■super.OnWasAttached(parent, slot_id);
■■m_Parent = parent;
■■if (!ParentUsesWinchesterTypeMount())
```

■■HideSelection("rings_winchester"):

```
// ----- HuntingVest.c - START -----
class HuntingVest extends Clothing {};
// ----- HuntingVest.c - END -----
// -----
// -----
// ----- Iceaxe.c - START -----
// -----
class Iceaxe: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionBuryAshes);
■■AddAction(ActionDigGardenPlot);
■■AddAction(ActionDismantleGardenPlot):
■■//AddAction(ActionMineRock1H);
■■AddAction(ActionDigWorms);
■■AddAction(ActionDismantlePart);
■■AddAction(ActionBuildPart);
■■AddAction(ActionSkinning);
■■AddAction(ActionCreateGreenhouseGardenPlot):
|
};
// ----- Iceaxe.c - END -----
// -----
// ----- Icon.c - START -----
// -----
class Icon: LayoutHolder
■protected int■■■■■ SizeX;
■protected int■■■■m_SizeY;
■protected int■■■■m_PosX;
■protected int■■■■m_PosY;
■protected EntityAl■■■m_Lock;
■protected bool■■■■■m_lsWeapon■■= false;
■protected bool
■■■■m_lsMagazine
■= false;
■protected bool ■■■■■ m_HasTemperature = false;
■protected bool■■■■■m_HasQuantity■■= false;
■protected float■■■■m_CurrQuantity■= -1;
```

Inrotected Entity Al

```
----- IconsContainer.c - START ------
class IconsContainer: Container
■protected ref map<int, ref lcon> m_EntitiesMap = new map<int, ref lcon>;
■void IconsContainer( LayoutHolder parent )
■}
■override void UnfocusAll()
\blacksquare for (int i = 0; i < Count(); i++)
THE for (int j = 0; j < ITEMS_IN_ROW; j++)
 ■■■Get( i ).GetMainWidget().FindAnyWidget( "Cursor" + j ).Show( false );
\blacksquarefor ( i = 0; i < m_EntitiesMap.Count(); ++i)
■■■m_EntitiesMap.GetElement(i).SetActive(false);
■int GetItemCount()
■■return m_EntitiesMap.Count();
■void AddItem( Icon icon )
■■if(!m_EntitiesMap.Contains(icon.GetObject().GetID()))
■■■m_EntitiesMap.Insert( icon.GetObject().GetID(), icon);
==}
■Icon GetIcon( int entity_id )
■■return m_EntitiesMap.Get( entity_id );
■Icon GetIconByIndex( int index )
■■if( index < m_EntitiesMap.Count() && index > -1 )
■■ return m_EntitiesMap.GetElement( index );
■return null;
■void RemoveItem( Icon icon )
■■if( icon )
 I■■Icon icon_copy = icon; // for some reason garbage collector collects icon too soon, so copy has to be
■■■if( icon.GetObject() )
■■■m_EntitiesMap.Remove(icon.GetObject().GetID());
```

```
// ----- ImmuneSystem.c - START ------
class ImmuneSystemMdfr: ModifierBase
■bool m_HasDisease;
■bool m_HasHealings;
■override void Init()
■■m_TrackActivatedTime = false;
■■m_ID ■■■■= eModifiers.MDF_IMMUNE_SYSTEM;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■■DisableDeactivateCheck();
•}
■override bool ActivateCondition(PlayerBase player)
Teturn true;
■}
■override void OnActivate(PlayerBase player)
■override void OnReconnect(PlayerBase player)
■override bool DeactivateCondition(PlayerBase player)
■■return false;
■override void OnTick(PlayerBase player, float deltaT)
//■Debug.Log("ticking immune system", "agent");
■■float result ■= player.GetImmunity() * deltaT;
■■player.ImmuneSystemTick(result, deltaT);
//■■Debug.Log("result: "+result.ToString(), "agent");
■■if( m_HasDisease != player.HasDisease() )
■■■if(player.HasDisease())
■■■if( player.GetNotifiersManager() ) player.GetNotifiersManager().ActivateByType(eNotifiers.NTF_SIC
■■else
■■■■if( player.GetNotifiersManager() ) player.GetNotifiersManager().DeactivateByType(eNotifiers.NTF_
■■■m_HasDisease = player.HasDisease();
■■if( m_HasHealings != player.HasHealings() )
```

■■if(nlaver HasHealings())

```
----- ImmunityBoost.c - START ------
class ImmunityBoost: ModifierBase
■float ■■■m_LastWaterLevel;
■ref HumanMovementState■■m_MovementState■= new HumanMovementState();
■float m_RegenTime;
■override void Init()
■m_TrackActivatedTime = true;
■■m_IsPersistent = true;
■■m_ID ■■■■= eModifiers.MDF_IMMUNITYBOOST;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m TickIntervalActive ■= 1;
■■m_RegenTime = PlayerConstants.VITAMINS_LIFETIME_SECS;
■}■■
■override bool ActivateCondition(PlayerBase player)
■■return false;
■}
■override void OnReconnect(PlayerBase player)
■■OnActivate(player);
■}
■override string GetDebugText()
■■return (m_RegenTime - GetAttachedTime()).ToString();
■override void OnActivate(PlayerBase player)
■■player.SetImmunityBoosted(true);
■■player.IncreaseHealingsCount();
■■if( player.GetNotifiersManager() )
■■■player.GetNotifiersManager().ActivateByType(eNotifiers.NTF_PILLS);
|
■override void OnDeactivate(PlayerBase player)
■■player.SetImmunityBoosted(false);
■■player.DecreaseHealingsCount();
■■if( player.GetNotifiersManager() )
■■■player.GetNotifiersManager().DeactivateByType(eNotifiers.NTF_PILLS);
■}
■override bool DeactivateCondition(PlayerBase player)
■■float attached_time = GetAttachedTime();
■■if( attached_time >= m_RegenTime )
```

return true:

```
// ----- ImpactEffects.c - START -----
enum ImpactTypes
■UNKNOWN;
■STOP;
■PENETRATE;
■RICOCHET:
■MELEE;
class ImpactMaterials
■ref static map<string, typename> ■m_ImpactEffect;
■static int ■■■■■■■■m_LastRegisteredMaterial = 0;
■//! Map of ammo which will not spawn any impact effect
■ref static map<string, int>■■■m_IgnoredAmmo;
■static int ■■■■■■■■■■LastRegisteredIgnoredAmmo = 0;
■/** \name Surface effects
■*■Register all hit materials here!
■*■When modding, these can be unregistered with 'UnregisterSurface' if so desired
*/
I//@{
■static int PLASTIC■ ■■■■■ RegisterSurface("Hit_Plastic");
■static int SAND ■■■■■■ RegisterSurface("Hit_Sand");
■static int TEXTILE ■■■■■■ RegisterSurface("Hit_Textile");
■static int CONCRETE ■■■■■ RegisterSurface("Hit_Concrete");
■static int GRAVEL ■■■■■■ RegisterSurface("Hit_Gravel");
■static int DIRT ■■■■■ RegisterSurface("Hit_Dirt");
■static int FOLIAGE ■■■■■■ RegisterSurface("Hit_Foliage");
■static int GRASS ■■■■■■ RegisterSurface("Hit_Grass");
■static int WOOD ■■■■■■ RegisterSurface("Hit_Wood");
■ static int METAL ■■■■■■ RegisterSurface("Hit_Metal");
■ static int GLASS ■■■■■■ RegisterSurface("Hit_Glass");
■static int GLASS_THIN ■■■■■ RegisterSurface("Hit_Glass_Thin");
■static int WATER ■■■■■■ RegisterSurface("Hit_Water");
■static int RUBBER ■■■■■ RegisterSurface("Hit_Rubber");
■static int PLASTER ■■■■■■ RegisterSurface("Hit_Plaster");
■static int MEATBONES■■■■ = RegisterSurface("Hit_MeatBones");
■ static int MEATBONES_SHOVEL ■ RegisterSurface("Hit_MeatBones_MeleeShovel");
■ static int MEATBONES_PIPEWRENCH■ RegisterSurface("Hit_MeatBones_MeleePipeWrench");
■static int MEATBONES_WRENCH■■■■= RegisterSurface("Hit_MeatBones_MeleeWrench");
■static int MEATBONES_FIST■■■= RegisterSurface("Hit_MeatBones_MeleeFist");
■static int UNDEFINED ■■■■■ RegisterSurface("Hit_Undefined");
■static int ERROR_NO_MATERIAL■■ RegisterSurface("Hit_ErrorNoMaterial");
■//@}
■/** \name Ignored ammo
■*■Register ammo which will not spawn impact effects here
■*■When modding, these can be unregistered with 'UnregisterIgnoredAmmo' if so desired
*/
I//@{
■ static int FIST■■■■■■ RegisterIgnoredAmmo("MeleeFist");
■static int FIST_HEAVY■■■■= RegisterIgnoredAmmo("MeleeFist_Heavy");
■static int SOFT■■■■■■ RegisterIgnoredAmmo("MeleeSoft");
■static int SOFT_HEAVY■■■■ RegisterIgnoredAmmo("MeleeSoft_Heavy");
//@}
```

```
// ----- ImprovisedBag.c - START ------
class ImprovisedBag : Clothing {};
// ----- ImprovisedBag.c - END ------
// ----- ImprovisedExplosive.c - START ------
class ImprovisedExplosive: ExplosivesBase
■protected const float TIME_TRIGGER_INITIAL_DELAY_SECS ■■■= 0.1;
■ protected const float TIME_TRIGGER_TIMER_BASED_DELAY_SECS ■ ■ 1.0; ■ protected const float TIME_TRIGGER_DELAY_SECS ■ ■ ■ 0.3;
■protected static const string SLOT_TRIGGER_ALARM_CLOCK
■■= "TriggerAlarmClock";
■ protected static const string SLOT_TRIGGER_KITCHEN_TIMER■■= "TriggerKitchenTimer";
■ protected static const string SLOT_TRIGGER_REMOTE■■■■= "TriggerRemoteDetonator_Receiver";
protected static const string SLOT_EXPLOSIVE_ABBEBBB "IEDExplosiveA";
■protected static const string SLOT_EXPLOSIVE_B■■■■= "IEDExplosiveB";
■protected const int SLOT_EXPLOSIVE_COUNT■■■■■= 2;
■protected const string SLOT_EXPLOSIVES[SLOT_EXPLOSIVE_COUNT] ■= {
■■SLOT_EXPLOSIVĔ_A,
■■SLOT_EXPLOSIVE_B
■};
■protected const int SLOT_TRIGGERS_COUNT■■■■■■= 3;
■protected const string SLOT_TRIGGERS[SLOT_TRIGGERS_COUNT]
■■= {
■■SLOT_TRIGGER_ALARM_CLOCK,
■■SLOT_TRIGGER_KITCHEN_TIMER,
■■SLOT_TRIGGER_REMOTE
■};
■protected const string ANIM_PHASE_TRIGGER_EMPTY■■■■= "TriggerEmpty";
■protected const string ANIM_PHASE_TRIGGER_TIMER■■■■= "TriggerTimer"
■protected const string ANIM_PHASE_TRIGGER_CLOCK
■■■■ "TriggerClock";
■protected const string ANIM_PHASE_TRIGGER_REMOTE
■ "TriggerRemote";
■protected ref RemotelyActivatedItemBehaviour m_RAIB;
■void ImprovisedExplosive()
■■m_RAIB = new RemotelyActivatedItemBehaviour(this);
■■RegisterNetSyncVariableInt("m_RAIB.m_PairDeviceNetIdLow");
■■RegisterNetSyncVariableInt("m_RAIB.m_PairDeviceNetIdHigh");
■}
■override void EOnInit(IEntity other, int extra)
```

■■LockTriggerSlots():

```
// ----- ImprovisedFishingRod.c - START ------
class ImprovisedFishingRod: FishingRod_Base_New
■override void AnimateFishingRod(bool state)
■■SetAnimationPhase("AnimateRod",state);
};
// ----- ImprovisedFishingRod.c - END ------
// ----- ImprovisedSuppressor.c - START ------
class ImprovisedSuppressor extends SuppressorBase
■const int SLOTS_ARRAY = 9;
■string slot_names[SLOTS_ARRAY] = { /*"weaponMuzzleAK", */"weaponBayonetAK", "weaponBayonet",
■override bool CanPutAsAttachment( EntityAl parent )
■■bool cond_state = true;
■■if(!super.CanPutAsAttachment(parent)) {return false;}
Table 1 for ( int i = 0; i < SLOTS_ARRAY; i++')
■■■if (parent.FindAttachmentBySlotName(slot_names[i])!= NULL)
■■■cond_state = false;
■■■■break;
| ||
■■if (cond_state &&!parent.lsKindOf("PlateCarrierHolster") &&!parent.lsKindOf("PlateCarrierComplete")
■ return true;
■■}
■ return false;
■}
// ----- ImprovisedSuppressor.c - END ------
```

```
----- InfectedSoundEventBase.c - START -----
enum EInfectedSoundEventType
■GENERAL,
class InfectedSoundEventBase extends SoundEventBase
■ZombieBase m_Infected;
■void InfectedSoundEventBase()
■ Type = EInfectedSoundEventType.GENERAL;
■void ~InfectedSoundEventBase()
■■if (m_SoundSetCallback) m_SoundSetCallback.Stop();
■void Init(ZombieBase pInfected)
■■m_Infected = pInfected;
■void SoftStop()
■■if (m_SoundSetCallback)
■■■m_SoundSetCallback.Loop(false);
■■■m_SoundSetCallback = null;
--
■override void Stop()
■■if (m_SoundSetCallback)
■■m_SoundSetCallback.Stop();
■■■m_SoundSetCallback = null;
==}
■■GetGame().GetCallQueue(CALL_CATEGORY_GAMEPLAY).RemoveByName(this, "PosUpdate");
|
■void PosUpdate()
■■if (m_SoundSetCallback)
■■■m_SoundSetCallback.SetPosition(m_Infected.GetPosition());
==}
■override bool Play()
■string soundset_name;
■■soundset_name = string.Format("%1_%2_SoundSet", m_Infected.ClassName(), m_SoundSetNameRo
```

Manual Manual

```
// ----- InfectedSoundEventHandler.c - START ------
enum EInfectedSoundEventID
■MINDSTATE_CALM_IDLE = 1,
■MINDSTATE_CALM_MOVE
■MINDSTATE_DISTURBED_IDLE,
■//MINDSTATE_CHASE_IDLE,
■MINDSTATE_CHASE_MOVE,
■MINDSTATE_ALERTED_IDLE
■MINDSTATE_ALERTED_MOVE,
■ENUM_COUNT,
class InfectedSoundEventHandler extends SoundEventHandler
Econst int SOUND_EVENTS_MAX = EInfectedSoundEventID.ENUM_COUNT;
static ref InfectedSoundEventBase m AvailableStates[SOUND EVENTS MAX];
■ref InfectedSoundEventBase m_CurrentState;
■ZombieBase m_Infected;
■void InfectedSoundEventHandler(ZombieBase pInfected)
■■m_Infected = pInfected;
■■m_AvailableStates[EInfectedSoundEventID.MINDSTATE_CALM_IDLE] = new CalmIdleSoundEvent();
■■m_AvailableStates[EInfectedSoundEventID.MINDSTATE_CALM_MOVE] = new CalmMoveSoundEver
■■m_AvailableStates[EInfectedSoundEventID.MINDSTATE_DISTURBED_IDLE] = new DisturbedIdleSoundEventID.MINDSTATE_CHASE_IDLE] = new ChaseIdleSoundEventID.MINDSTATE_CHASE_IDLE] = new ChaseIdleSoundEventID.MINDSTATE_CHASE_IDLESOUNDEVENTIDE = new ChaseIdleSoundEventID.MINDSTATE = new ChaseIdleSoundEventID.MINDSTATE = new ChaseIdleSoundEventID.MINDSTATE = new ChaseIdleSoundEvent
■■m_AvailableStates[EInfectedSoundEventID.MINDSTATE_CHASE_MOVE] = new ChaseMoveSoundE
■■m_AvailableStates[EInfectedSoundEventID.MINDSTATE_ALERTED_IDLÉ] = new AlertedIdleSoundEventID.MINDSTATE_ALERTED_MOVE] = new AlertedMoveSoundEventID.MINDSTATE_ALERTED_MOVE] = new AlertedMoveSoundEventID.MINDSTATE_ALERTED_MOVE]
■}
■override static int GetSoundEventType(int id)
■ return m_AvailableStates[id].GetSoundEventType();
■}
■override int GetCurrentStateEventID()
■■if (m_CurrentState)
■■■return m_CurrentState.GetSoundEventID();
■■return -1;
■}
■override int GetCurrentStateEventType()
■■if (m_CurrentState)
■■■return m_CurrentState.GetSoundEventType();
■■return -1;
■}
■void Stop()
```

■■if / m CurrentState)

```
----- Influenza.c - START -----
class InfluenzaMdfr: ModifierBase
■const int AGENT_THRESHOLD_ACTIVATE = 300;
■const int AGENT_THRESHOLD_DEACTIVATE = 200;
■override void Init()
■■m_TrackActivatedTime = false;
■■m_ID ■■■■■= eModifiers.MDF_INFLUENZA;
■■m TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■override string GetDebugText()
■■return ("Activate threshold: "+AGENT_THRESHOLD_ACTIVATE + "| " +"Deativate threshold: "+AGEN
■override protected bool ActivateCondition(PlayerBase player)
■■if(player.GetSingleAgentCount(eAgents.INFLUENZA) >= AGENT_THRESHOLD_ACTIVATE)
■■ return true:
■■return false;
■override protected void OnActivate(PlayerBase player)
■■player.IncreaseDiseaseCount();
■override protected void OnDeactivate(PlayerBase player)
■■player.DecreaseDiseaseCount();
■override protected bool DeactivateCondition(PlayerBase player)
■ return (player.GetSingleAgentCount(eAgents.INFLUENZA) <= AGENT_THRESHOLD_DEACTIVATE):
■override protected void OnTick(PlayerBase player, float deltaT)
■■float chance_of_cough = player.GetSingleAgentCountNormalized(eAgents.INFLUENZA);
■■if( Math.RandomFloat01() < chance_of_cough / Math.RandomInt(5,20) )</p>
■■■player.GetSymptomManager().QueueUpPrimarySymptom(SymptomIDs.SYMPTOM_COUGH);
■}
};
// ----- Influenza.c - END -----
```

```
// ----- InfluenzaAgent.c - START -----
class InfluenzaAgent extends AgentBase
■const float INFLUENZA_AGENT_AUTOINFECT_THRESHOLD_HC = PlayerConstants.THRESHOLD_H
■override void Init()
■■m_Type ■■■■= eAgents.INFLUENZA;
■■m_Invasibility ■■= 0.33;
■■m_TransferabilityIn■■= 1;
■■m_TransferabilityOut■= 1;
■■m_MaxCount ■■■= 1000;
■■m_Digestibility■■= 0.1;
■■m_AntibioticsResistance = 0;
■■m_AutoinfectProbability = CalculateAutoinfectProbability( 0.40 );
■■m_TransferabilityAirOut = 1;
■■m_Potency ■■■■= EStatLevels.MEDIUM;
■■m_DieOffSpeed ■■■= 0.66;
■override bool CanAutoinfectPlayer(PlayerBase player)
■■if ( player.GetStatHeatComfort().Get() < INFLUENZA_AGENT_AUTOINFECT_THRESHOLD_HC )
■■■return true;■■■
■■}
■■else
----
■■■return false;■
——}
■}
// ----- InfluenzaAgent.c - END ------
// -----
// ----- IngameHud.c - START -----
class IngameHud extends Hud
■protected const float
■■■■■FADE_IN_TIME = 0.3;
■protected const float■■■■■FADE_OUT_TIME = 0.3;
■protected const float■■■■■HIDE_MENU_TIME = 5;
■protected ref map<int,string>■■■m_StatesWidgetNames;
■protected ref map<int,ImageWidget>■■■m_StatesWidgets; // [key] ImageWidget
■protected float
■■■■■■■■
BlinkTime;
■protected ref map<int,string>■■■■m_BadgesWidgetNames;
```

Invotected ref man-int int

```
// ----- InGameMenu.c - START ------
class InGameMenu extends UIScriptedMenu
■string ■■■■■■■m_ServerInfoText;
■protected Widget■■m_ContinueButton;
■protected Widget■■m_SeparatorPanel;
■protected Widget■■m_ExitButton;
■protected Widget■■m_RestartButton;
■protected Widget ■■■m_RespawnButton;
■protected Widget■■■m_RestartDeadRandomButton;
■protected Widget■■■ RestartDeadCustomButton:
■protected Widget■■m_OptionsButton;
■protected Widget ■■■m_ServerInfoPanel;
■protected Widget ■■■m_FavoriteButton;
■protected Widget ■■■m_FavoriteImage;
■protected Widget ■■■m_UnfavoriteImage;
■ protected Widget ■ ■ ■ CopyInfoButton:
■protected ref TextWidget■m_ModdedWarning;
■protected ref TextWidget ■m_ServerIP;
■protected ref TextWidget ■m_ServerPort;
■protected ref TextWidget ■m_ServerName;
■protected ref UiHintPanel m HintPanel;
■void ~InGameMenu()
■■HudShow(true);
■■Mission mission = g_Game.GetMission();
■If (mission)
mission.Continue():
| ||
■}
■override Widget Init()
■■layoutRoot = GetGame().GetWorkspace().CreateWidgets("qui/layouts/day z ingamemenu.layout");
■■m_ContinueButton■■■= layoutRoot.FindAnyWidget("continuebtn");
■■m_SeparatorPanel■■■= layoutRoot.FindAnyWidget("separator_red");
■■m_ExitButton■■■■= layoutRoot.FindAnyWidget("exitbtn");
■■m_RestartButton■■■■= layoutRoot.FindAnyWidget("restartbtn");
■■m_RespawnButton ■■■= layoutRoot.FindAnyWidget("respawn_button");
■■m_RestartDeadRandomButton■= layoutRoot.FindAnyWidget("respawn_button_random");
■■m_RestartDeadCustomButton■= layoutRoot.FindAnyWidget("respawn_button_custom");
■■m_OptionsButton■■■= layoutRoot.FindAnyWidget("optionsbtn");
■■m_ModdedWarning■■■■= TextWidget.Cast(layoutRoot.FindAnyWidget("ModdedWarning"));
■■m_HintPanel■■■■■= new UiHintPanel(layoùtRoot.FindAnyWidget("hint_frame"));
■■m_ServerInfoPanel ■■■= layoutRoot.FindAnyWidget("server_info");
■■m_ServerIP ■■■■= TextWidget.Cast(layoutRoot.FindAnyWidget("server_ip"));
■■m_ServerPort ■■■■= TextWidget.Cast(layoutRoot.FindAnyWidget("server_port"));
■■m_ServerName ■■■■= TextWidget.Cast(layoutRoot.FindAnyWidget("server_name"));
■■m_FavoriteImage ■■■= layoutRoot.FindAnyWidget("favorite_image");
■■m_UnfavoriteImage ■■■= layoutRoot.FindAnyWidget("unfavorite_image");
m CopyInfoButton ■■■= layoutRoot.FindAnyWidget("copy button");
```

```
// ----- InGameMenuXbox.c - START ------
class InGameMenuXbox extends UIScriptedMenu
//#ifdef PLATFORM_CONSOLE
■// Widgets texts id
■protected string ■■■■■■m_MuteButtonTextID;
■protected string ■■■■■■m_UnmuteButtonTextID;
■protected string ■■■■■■■■ BackButtonTextID;
■protected string ■■■■■■m_SelectButtonTextID;
■protected string ■■■■■■m_OpenGameCardButtonTextID;
■protected string ■■■■■■ CurrentMuteButtonText;
■ protected bool ■■■■■■■ SelectAvailable:
■protected bool ■■■■■■■■m_MuteAvailable;
■protected bool ■■■■■■■■■■■■BackAvailable;
■protected bool ■■■■■■■■ GamercardAvailable;
■protected bool ■■■■■■■m_PlayerAlive;
■protected ref PlayerListScriptedWidget■m_ServerInfoPanel;
■protected Widget■■■■■m_OnlineMenu;
■protected ButtonWidget■■■■m_ContinueButton;
■protected ButtonWidget■■■■m_ExitButton;
■protected ButtonWidget■■■■m_RestartDeadButton;
■protected ButtonWidget■■■■m_RestartButton;
■protected ButtonWidget■■■■m_OptionsButton;
■protected ButtonWidget■■■■■m_ControlsButton;
■protected ButtonWidget■■■■m_OnlineButton;
■protected ButtonWidget■■■■m_TutorialsButton;
■protected TextWidget■■■■m_Version;
■const int ■■■■■■■■BUTTON_XBOX_CONTROLS = 201;
■void InGameMenuXbox()
■■GetGame().GetMission().GetOnInputPresetChanged().Insert(OnInputPresetChanged);
■■GetGame().GetMission().GetOnInputDeviceChanged().Insert(OnInputDeviceChanged);
■void ~InGameMenuXbox()
■■ClientData.SyncEvent_OnPlayerListUpdate.Remove(SyncEvent_OnRecievedPlayerList);
■■OnlineServices.m_PermissionsAsyncInvoker.Remove(OnPermissionsUpdate);
■■Mission mission = GetGame().GetMission();
■If (mission)
■■IngameHud hud = IngameHud.Cast(mission.GetHud());
■■■if (hud)
■■■hud.ShowHudUI(true);
■■■hud.ShowQuickbarUl(true);
```

■■mission Continue():

```
// ----- InjectionVial.c - START ------
class InjectionVial: Inventory_Base {};
// ----- InjectionVial.c - END ------
// ----- InjuryEvents.c - START ------
class InjurySoundEvents extends PlayerSoundEventBase
■void InjurySoundEvents()
■■m_HasPriorityOverTypes = -1;//-1 for all
■■m_Type = EPlayerSoundEventType.INJURY;
■override bool CanPlay(PlayerBase player)
■■return true;
■override bool HasPriorityOverCurrent(PlayerBase player, EPlayerSoundEventID other_state_id,EPlayerS
■ return true;
■}
class InjuryLightSoundEvent extends InjurySoundEvents
■void InjuryLightSoundEvent()
■{
■■m_ID = EPlayerSoundEventID.INJURED_LIGHT;
■■m_SoundVoiceAnimEventClassID = 28;
class InjuryMediumSoundEvent extends InjurySoundEvents
void InjuryMediumSoundEvent()
■{
■■m_ID = EPlayerSoundEventID.INJURED_MEDIUM;
■■m_SoundVoiceAnimEventClassID = 28;
■}
class InjuryHeavySoundEvent extends InjurySoundEvents
```

■void InjuryHeavySoundEvent()

```
// ----- InjuryHandler.c - START ------
class InjuryHandlerThresholds
\blacksquareconst float WORN = 0.5;
■const float DAMAGED = 0.3;
■const float BADLY_DAMAGED = 0.2;
\blacksquareconst float RUINED = 0.1;
class InjuryAnimValues
\blacksquareconst float LVL0 = 0;
\blacksquareconst float LVL1 = 0.3;
\blacksquareconst float LVL2 = 0.6;
\blacksquareconst float LVL3 = 0.8;
\blacksquareconst float LVL4 = 1;
enum elnjuryHandlerLevels
■PRISTINE,
■WORN.
■DAMAGED,
■BADLY_DAMAGED,
■RUINED,
enum elnjuryOverrides
■//! MUST BE POW2
\blacksquareNONE = 0.
\blacksquareMORPHINE = 1,
■PAIN_KILLERS_LVL0 = 2,
■PAIN_KILLERS_LVL1 = 4,
■BROKEN_LEGS = 8, //New
■BROKEN_LEGS_SPLINT = 16, //New
■PRONE_ANIM_OVERRIDE = 32, //Prevent non pristine animation when prone
class InjuryAnimationHandler
■const float VALUE_CHECK_INTERVAL
■= 5;
■const float SENSITIVTY_PERCENTAGE ■■= 1; //how much the value needs to change up/down from p
■ref ScriptInvoker m_ChangedStateInvoker = new ScriptInvoker();
■float m_TimeSinceLastTick = VALUE_CHECK_INTERVAL + 1;
■float m_LastUpdate;
■eInjuryHandlerLevels m_LastHealthUpdate;
■float m_HealthMaxValue;
■private PlayerBase m_Player; //! owner
■private bool m_AnimationChange = false;
■ private bool m_InjuryAnimEnabled = false;

■ private float m_InjuryAnimDamageValue = 0;

■ int m_ForceInjuryAnimMask;
```

```
// ----- InjurySoundHandler.c - START ------
enum elnjurySoundZones
\blacksquareNONE = 0,
■LIGHT,
■MEDIUM,
■HEAVY,
■// PUT NEW STATES ABOVE
■COUNT
class InjurySoundHandlerBase extends SoundHandlerBase
■override void Init()
■ m_Id = eSoundHandlers.INJURY;
// Client
class InjurySoundHandlerClient extends InjurySoundHandlerBase
`■const float SOUND_INTERVALS_LIGHT_MIN ■= 15; const float SOUND_INTERVALS_LIGHT_MAX = :
■const float SOUND_INTERVALS_MEDIUM_MIN ■= 10; const float SOUND_INTERVALS_MEDIUM_MA
■const float SOUND_INTERVALS_HEAVY_MIN■= 3; const float SOUND_INTERVALS_HEAVY_MAX =
■ref HumanMovementState m_MovementState = new HumanMovementState;
■eInjurySoundZones m_InjurySoundZone;
■eInjuryHandlerLevels m_InjuryLevel;
■float m_SoundTime;
elnjurySoundZones DetermineInjuryZone(elnjuryHandlerLevels level)
■if( level == elnjuryHandlerLevels.PRISTINE )
■■return elnjurySoundZones.NONE;
■■m_Player.GetMovementState(m_MovementState);
■■int speed = m_MovementState.m_iMovement;
■■int stance = m_MovementState.m_iStanceIdx;
Int stance_IvI_down = DayZPlayerConstants.STANCEMASK_PRONE | DayZPlayerConstants.STANC
\blacksquareif(speed == 0)
■■ return elnjurySoundZones.NONE;
■■level--;// shift the level so that we play from higher damage
■■if( stance == DayZPlayerConstants.STANCEIDX_PRONE || stance == DayZPlayerConstants.STANC
■■■level--;
| ||
■■if( speed == DayZPlayerConstants.MOVEMENTIDX_WALK )
```

```
// ----- input.c - START -----
enum EInputDeviceType
■UNKNOWN,
■MOUSE_AND_KEYBOARD,
■CONTROLLER
class Input
// input locking
/**
■\brief Change game focus number
■@param add number to add to focus number
■@param input_device if equals -1, works globally on all devices, see INPUT_DEVICE_* values in constant
■@see HasGameFocus()
*/
■proto native void■■ChangeGameFocus(int add, int input_device = -1);
■\brief Reset game focus number (set to 0)
■@param input_device if equals -1, works globally on all devices, see INPUT_DEVICE_* values in consta
■@see HasGameFocus()
*/
■proto native void■■ResetGameFocus(int input_device = -1);
■\brief Check if game should have focus
■@param input_device if equals -1, checks all devices, see INPUT_DEVICE_* values in constants.h
■@return true if focus number == 0, false otherwise
*/
■proto native bool■■HasGameFocus(int input_device = -1);
■// actions
■proto native int■■GetActionGroupsCount();
■proto native int■■GetActionGroupSize(int group_index);
■proto int■■■GetActionGroupName(int group_index, out string name);
■proto int■■■■GetActionDesc(int action_index, out string desc);
■// getting action state
■\brief Get action state
■@param action id of action, defined in \ref 4_World/Classes/UserActionsComponent/_constants.c
■@param check_focus if true and game is unfocused, returns 0; otherwise returns actual value
■@return actual action state as float, for regular two state buttons returns 0 or 1, for analog buttons/axes i
■@see LocalValue()
*/
■proto native float■LocalValue_ID(int action, bool check_focus = true);
■proto native float■LocalValue(string action, bool check_focus = true);
■\brief Returns true just in frame, when action was invoked (button was pressed)
■\note if the input is limited (click, hold, doubleclick), 'Press' event is limited as well, and reacts to the limited as a well, and reacts to the limited apparam action id of action, defined in \ref 4_World/Classes/UserActionsComponent/_constants.c
```

■@param check_focus if true and game is unfocused, returns 0; otherwise returns actual value

moreturn true if action was invoked in that frame false otherwise

```
// ----- InputDeviceDisconnectWarningMenu.c - START ------
class InputDeviceDisconnectWarningMenu extends UIScriptedMenu
■private ref array<int> m_DisconnectedDevices;
■private ref array<int> m_DeviceOrder = {EUAINPUT_DEVICE_CONTROLLER,EUAINPUT_DEVICE_MC
■private ref map<int,string> m_DeviceMessages;
■private bool m CanClose:
■private bool m_Initialized;
■private string m_DevicesText;
■private string m_CaptionText;
■private string m_ConfirmationText;
■private WrapSpacerWidget ■m_WrapperWidget;
■private TextWidget ■■■m_CaptionWidget;
■private RichTextWidget ■■m_DeviceListWidget;
■private RichTextWidget ■■m_ActionTextWidget;
■void InputDeviceDisconnectWarningMenu()
•{
mmg_Game.GetMission().AddActiveInputExcludes(("gamepaddisconnect"));
■■m_DisconnectedDevices = new array<int>;
■■m CanClose = false:
■■BuildMessages();
■}
■void ~InputDeviceDisconnectWarningMenu()
■ if (g_Game)
■■■PPERequesterBank.GetRequester(PPERequester_ControllerDisconnectBlur).Stop();
■■■g_Game.DeleteTitleScreen(); // Removes any outstanding gamepad identification propmt; the gamep
■■■if (g_Game.GetMission())
■■■g_Game.GetMission().RemoveActiveInputExcludes({"gamepaddisconnect"},true);
| | |
■}
■override Widget Init()
■■layoutRoot = g_Game.GetWorkspace().CreateWidgets("gui/layouts/new_ui/notifications/day_z_input_c
■■m_WrapperWidget = WrapSpacerWidget.Cast(layoutRoot.FindAnyWidget("Wrapper"));
■■m_CaptionWidget = TextWidget.Cast(layoutRoot.FindAnyWidget("Caption"));
■■m_DeviceListWidget = RichTextWidget.Cast(layoutRoot.FindAnyWidget("DeviceList"));
■■m_ActionTextWidget = RichTextWidget.Cast(layoutRoot.FindAnyWidget("ActionText"));
■ Game.GetMission().GetOnInputDeviceConnected().Insert(UpdateDisconnectedDevices);
■ Game.GetMission().GetOnInputDeviceDisconnected().Insert(UpdateDisconnectedDevices);
■■UpdateDisconnectedDevices();
■■if (g_Game.GetUIManager() && g_Game.GetUIManager().IsDialogVisible())
■■■g_Game.GetUIManager().CloseDialog();
}
■■PPERequesterBank.GetRequester(PPERequester_ControllerDisconnectBlur).Start();
```

■■return layoutRoot;

```
// ----- inputManager.c - START ------
#ifdef GAME_TEMPLATE
enum InputTrigger
■UP, ■■■///< call listener when button/key is released
■DOWN,■■ ■///< call listener when button/key is pressed
■PRESSED. ■■///< call listener in each tick when button/key is pressed
■VALUE■■ ■///< call listener in each tick with current value
class ActionManager
■void ActionManager(ActionManager parent);
■proto native external bool RegisterAction(string actionName);
■proto native external bool RegisterContext(string contextName);
■proto native external float LocalValue(string actionName):
■proto native external bool GetActionTriggered(string actionName);
■proto native external bool ActivateAction(string actionName, int duration = 0);
■proto native external bool IsActionActive(string actionName);
■proto native external bool ActivateContext(string contextName, int duration = 0);
■proto native external bool IsContextActive(string contextName);
Eproto external void AddActionListener(string actionName, InputTrigger trigger, func callback);
proto native external void SetContextDebug(string contextName, bool bDebug);
■proto native void SetParent(ActionManager parent);
■proto native void SetDebug(bool bDebug);
class InputManager: ActionManager
material = private void InputManager(ActionManager parent) {};
private void ~InputManager() {};
■proto native external void ResetAction(string actionName):
■proto native void SetCursorPosition(int x, int y);
■proto native external bool RegisterActionManager(ActionManager pManager):
■proto native external bool UnregisterActionManager(ActionManager pManager);
};
#endif
// ----- inputManager.c - END -----
```

```
----- InputUtils.c - START -----
class InputUtils
■//useful for console preset differentiation
■ static const string PRESET_OLD ■ ■ ■ = "#STR_UAPRESET_0"; ■ static const string PRESET_NEW ■ ■ ■ = "#STR_UAPRESET_1";
■static const int VARIANT OLD ■■■= 0;
■static const int VARIANT NEW ■■■= 1;
■static int m_CurrentPresetIDConsole = -1;
static protected ref map<int, ref array<int>> m_InputActionSortingMap; //<sorting_idx,<input_ID>>
■static protected ref array<int> m_UnsortedInputActions;
■static const float ICON_SCALE_NORMAL = 1.21;
■static const float ICON_SCALE_TOOLBAR = 1.81;
static string GetButtonNameFromInput(string pInputName, int pInputDeviceType)
•{
■■UAInput inp = GetUApi().GetInputByName(pInputName);
\blacksquare for (int i = 0; i < inp.AlternativeCount(); i++)
■■inp.SelectAlternative(i);
■■■if (inp.CheckBindDevice(0, pInputDeviceType))
 ■■■return GetUApi().GetButtonName(inp.GetBindKey(0));
| ||
■■return "";
■//! returns a map of button names, combo or not
■static map<int,ref TStringArray> GetComboButtonNamesFromInput(string pInputName, int pInputDevice
■■UAInput inp = GetUApi().GetInputByName(pInputName);
■■TStringArray buttons;
■■map<int,ref TStringArray> output;//<alternativeIDX<button_array>>
\blacksquare for (int i = 0; i < inp.AlternativeCount(); i++)
 ■■■inp.SelectAlternative(i);
Image (inp.BindingCount() > 0 && inp.Binding(0)!= 0 && inp.CheckBindDevice(0,pInputDeviceType))
■■■buttons = new TStringArray;
  ■■■if (inp.lsCombo())
     ■■■buttons.Insert(GetUApi().GetButtonName( inp.Binding(0) ));
     I■■■for (int j = 1; j < inp.BindingCount(); j++)
INTERPOLATION OF THE PROPERTY OF THE PROPERTY
      I■■■■■buttons.Insert(GetUApi().GetButtonName( inp.Binding(j) ));
 ■■■■■}
  ■■■■//return buttons;
```

Example else

```
// ----- InspectMenuNew.c - START ------//
class InspectMenuNew extends UIScriptedMenu
■private ItemPreviewWidget m_item_widget;
■private ItemPreviewWidget m_slot_widget;
■private int m_characterRotationX;
■private int m_characterRotationY;
■private int m_characterScaleDelta;
■private vector m_characterOrientation;
■void InspectMenuNew()
■void ~InspectMenuNew()
■GetGame().GetDragQueue().RemoveCalls(this);
■■if (GetGame().GetMission())
■■■GetGame().GetMission().GetHud().ShowHudUI( true );
■■■GetGame().GetMission().GetHud().ShowQuickbarUI( true );
==}
|}
■override Widget Init()
layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/inventory_new/day_z_inventory_
■■return layoutRoot;
I//-----
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
■■switch (w.GetUserID())
■■ case IDC_CANCEL:
EXECTION();
■■■return true;
——}
■ return false;
■//-----
■void SetItem(EntityAl item)
■■if (item)
```

■■InspectMenuNew.UpdateItemInfo(layoutRoot, item);

```
----- IntroSceneCharacter.c - START ------
class IntroSceneCharacter extends Managed
■protected int■■m_CharacterId;
■ protected string ■ m_CharacterType; ■ protected MenuData ■ m_CharacterDta;
■protected PlayerBase■m_CharacterObj;
■protected vector■■m_CharacterPos;
■protected vector■■m_CharacterRot;
■protected ref TStringArray ■m_CharGenderList■■■= new TStringArray;
■protected ref TStringArray m_CharShirtList = new TStringArray; //legacy
■protected ref TStringArray ■m_CharPantsList■■■= new TStringArray; //legacy
■protected ref TStringArray ■m_CharShoesList■■■■= new TStringArray; //legacy
■protected ref map<ECharGender, ref array<string>> m_Characters = new map<ECharGender, ref array</p>
■protected ECharGender
■m_CharGender;
■void IntroSceneCharacter()
■ m_CharacterId = GameConstants.DEFAULT_CHARACTER_MENU_ID;
■void ~IntroSceneCharacter()
■■CharacterUnload();
■bool IsDefaultCharacter()
■■return m_CharacterId == GameConstants.DEFAULT_CHARACTER_MENU_ID;
■void SetToDefaultCharacter()
■ m_CharacterId = GameConstants.DEFAULT_CHARACTER_MENU_ID;
■// SetcharacterID
■void SetCharacterID(int char_id)
■■m_CharacterId = char id:
■// GetCharacterID
■int GetCharacterID()
■ return m_CharacterId;
■// GetCharacterObi
||/=========----
```

■PlayerBase GetCharacterObi()

```
// ----- Inventory.c - START ------
enum InventoryCommandType
■MOVE,■■■■■///< generic move, may involve animations
■SYNC_MOVE,■■■■///< synchronous move. action is finished immeadiately, no animations involved
■HAND_EVENT,■■■■///< event for hands
■SWAP,■■■■■///< swap two entities (simple swap of compatible objects)
■FORCESWAP,■■■■///< Forced swap two entities. First goes to second's place, second goes "somewhites."
■DESTROY,■■■■///< destroy of entity right in inventory
■REPLACE,■■■■///< replace of entity in inventory (@NOTE: hands goes through HAND_EVENT)
■USER RESERVATION CANCEL■///< Clear user reserved inventory space
};
enum InventoryJunctureType
■TAKE,■■■///< taking from ground
■SWAP,■■■///< swapping from ground
■//LOAD,■■■///< load mag from ground</p>
enum InventoryMode
■PREDICTIVE,■■///< 'Predictive' means that the operation uses Client-Side Prediction, i.e. the action run
■LOCAL,■■■///< 'Local' operation executes from where it is run
■JUNCTURE,■■///< 'Juncture' operation is used whenever there is possibility of race condition, i.e. two p
■SERVER,■■■///< 'Server' mode operation is required if and only if the operation runs only on server (cre
enum InventoryCheckContext
■DEFAULT.
■SYNC_CHECK,
enum FindInventoryReservationMode
■//! The original logic, finds anything depending on the parameters, item or dst required
■LEGACY.
■//! Find a reservation for the item EXCLUDING the dst, item and dst required
■ITEM,
■//! Find a reservation for the dst EXCLUDING the item, item and dst required
■//! Find an exact reservation for item and dst, item and dst required
■EQUAL,
};
/**@class■■GameInventory

    * @brief==script counterpart to engine's class Inventory

class GameInventory
■protected static int m_inventory_check_context = InventoryCheckContext.DEFAULT;
///@{ Engine native functions
 ■ * @fn■■GetInventoryOwner
```

* @returneentity associated with this inventory

```
// ----- InventoryActionHandler.c - START ------
//! Client only - manage set up crafting on client
class InventoryActionHandler
■ActionBase m_action;
■ActionTarget m_target;
■ItemBase m mainItem:
■bool ■m_useItemInHands;
■PlayerBase m_player;
■bool m isActive:
■vector m_actionStartPos;
■const float MIN_DISTANCE_TO_INTERRUPT = 1.0;
■const int IAH_SINGLE_USE = 1;
■const int IAH_CONTINUOUS = 2;
■void InventoryActionHandler(PlayerBase player)
■m_player = player;
■■m isActive = false;
■m_action = null;
■m target = null;
\blacksquare \blacksquare m_{mainItem} = null;
■■m_useItemInHands = false;
|
void SetAction(ActionBase action, ItemBase target_item, ItemBase main_item)
■■Object target_parent = null;
■■if(target_item)
■■■target_parent = target_item.GetHierarchyParent();
■■ActionTarget at = new ActionTarget(target_item, target_parent, -1, vector.Zero, -1);
■■SetAction(action, at, main_item);
■}
■void SetAction(ActionBase action, ActionTarget target, ItemBase main_item)
■■ActionManagerClient mngr;
■■Class.CastTo(mngr, m_player.GetActionManager());
■■m_action = action;
■■m_target = target;
■■m_mainItem = main_item;
■■ItemBase itemInHand = m_player.GetItemInHands();
■■m_useItemInHands = main_item == itemInHand;
■■m_actionStartPos = m_player.GetPosition();
■■m_isActive = true;
■■//mngr.InjectAction( action, target, main_item );
```

mmnar ForceTarget(m, target GetObject()).

```
// ----- InventoryCombinationFlags.c - START ------
class InventoryCombinationFlags
■static const int NONE ■■■■= 0;
■static const int ADD_AS_ATTACHMENT ■■= 1;
■static const int ADD_AS_CARGO ■■■= 2;
■static const int SWAP ■■■■= 4;
■static const int COMBINE QUANTITY■■= 8:
■static const int CRAFT■■■■= 16:
■static const int ACTIONS■■■= 32;
■static const int REPAIR■■■■= 64;
■static const int TAKE_TO_HANDS■■= 128;
■static const int RECIPE_HANDS■■= 256;
■static const int COMBINE QUANTITY2■■= 512;
■static const int RECIPE_ANYWHERE■■= 1024;
■static const int PERFORM_ACTION■■ = 2048;
■static const int LOAD_CHAMBER■■= 4096;
■static const int DETACH MAGAZINE■ = 8192;
■static const int ATTACH MAGAZINE■= 16384:
■static const int SET_ACTION■■■= 32768;
■//static const int SWAP_MAGAZINE
■ 65536;
// ----- InventoryCombinationFlags.c - END ------//
// -----
// ----- InventoryGrid.c - START ------//
class InventoryGridController extends ScriptedWidgetEventHandler
■void OnItemEnter(InventoryGrid grid, Widget w, int row, int col) {}
■void OnItemLeave(InventoryGrid grid, Widget w) {}
■void OnItemDrag(InventoryGrid grid, Widget w, int row, int col) {}
■void OnItemDraggingOver(InventoryGrid grid, Widget w, int row, int col) {}
■void OnItemDrop(InventoryGrid grid, Widget w, int row, int col) {}
■void OnItemDropReceived(InventoryGrid grid, Widget w, int row, int col) {}
■void OnItemClick(InventoryGrid grid, Widget w, int row, int col) {}
■void OnItemLeftClick(InventoryGrid grid, Widget w, int row, int col) {}
■void OnItemRightClick(InventoryGrid grid, Widget w, int row, int col) {}
■void OnItemDoubleClick(InventoryGrid grid, Widget w, int row, int col) {}
■// float GetItemQuantity(InventoryGrid grid, InventoryItem item) {}
■int GetItemColor(ScriptedWidgetEventHandler grid, InventoryItem item)
Teturn 0:
■int GetQuickbarItemColor(InventoryGrid grid, InventoryItem item) {}
■vector GetItemSize(InventoryGrid grid, InventoryItem item)
return Vector(0, 1, 1);
```

```
// ----- InventoryInputUserData.c - START ------
class InventoryInputUserData
■///@{ move
■static void SerializeMove(ParamsWriteContext ctx, int type, notnull InventoryLocation src, notnull Inventory
■■ctx.Write(INPUT_UDT_INVENTORY);
■ ctx.Write(type);
■■src.WriteToContext(ctx);
■■dst.WriteToContext(ctx);
■static void SendInputUserDataMove(int type, notnull InventoryLocation src, notnull InventoryLocation dst
■■if (GetGame().IsClient())
■■{
■■■syncDebugPrint("[syncinv] t=" + GetGame().GetTime() + "ms sending cmd=" + typename.EnumToStr
■■ScriptInputUserData ctx = new ScriptInputUserData;
■■SerializeMove(ctx, type, src, dst);
■■ctx.Send();
——}
■}
■static void SendServerMove(Man player, int type, notnull InventoryLocation src, notnull InventoryLocation
■■if (GetGame().IsServer())
■■■syncDebugPrint("[syncinv] server sending cmd=" + typename.EnumToString(InventoryCommandTyp
■■ScriptInputUserData ctx = new ScriptInputUserData;
■■SerializeMove(ctx, type, src, dst);
■■■GameInventory.ServerLocationSyncMoveEntity(player, src.GetItem(), ctx);
——}
|
■///@} move
■///@{ swap
■static void SerializeSwap(ParamsWriteContext ctx, notnull InventoryLocation src1, notnull InventoryLoca
■ctx.Write(INPUT_UDT_INVENTORY);
■■ctx.Write(InventoryCommandType.SWAP);
■■src1.WriteToContext(ctx);
■■src2.WriteToContext(ctx);
■■dst1.WriteToContext(ctx);
■■dst2.WriteToContext(ctx);
■■ctx.Write(skippedSwap);
■static void SendInputUserDataSwap(notnull InventoryLocation src1, notnull InventoryLocation src2, notn
■■if (GetGame().IsClient())
■■■syncDebugPrint("[syncinv] t=" + GetGame().GetTime() + "ms sending cmd=SWAP src1=" + Inventory
■■ScriptInputUserData ctx = new ScriptInputUserData;
■■■SerializeSwap(ctx, src1, src2, dst1, dst2, skippedSwap);
■■■ctx.Send();
■■}
```

■}

```
----- InventoryItem.c - START ------
// #include "Scripts\Entities\ItemBase.c"
typedef ItemBase InventoryItemBase;
typedef ItemBase InventoryItemSuper;
// ----- InventoryItem.c - END ------
// ----- InventoryItemType.c - START ------
class CarWheelType extends InventoryItemType
{
};
class ClothingType extends InventoryItemType
};
class ItemWatchType extends InventoryItemType
class ItemRadioType extends InventoryItemType
class ItemTransmitterType extends ClothingType
class ItemMegaphoneType extends InventoryItemType
class ItemCompassType extends InventoryItemType
};
class ItemGPSType extends InventoryItemType
class ItemMapType extends InventoryItemType
class ItemBookType extends InventoryItemType
```

```
// ----- InventoryLocation.c - START ------
//@NOTE: DO NOT EDIT! enum values are overwritten from c++
/// types of Inventory Location
enum InventoryLocationType
■UNKNOWN, ///< unknown, usually freshly created object
■GROUND, /// < ground
■ATTACHMENT, ///< attachment of another entity
■CARGO, ///< cargo of another entity</p>
■HANDS, ///< hands of another entity
■PROXYCARGO, ///< cargo of a large object (building,...)</p>
//@NOTE: DO NOT EDIT! enum values are overwritten from c++
/// flags for searching locations in inventory
enum FindInventoryLocationType
■ATTACHMENT, ■///< ■ATT
■CARGO,■■■///< ■CGO
■HANDS, ■■■///< ■HND
■PROXYCARGO, ■///< ■PXY
■ANY_CARGO, ■■///< ■CGO | PXY
■ANY, ■■■///< ■ATT | CGO | PXY | HND
■NO_SLOT_AUTO_ASSIGN ///<■skips auto-assign test
};
//! InventoryLocation
class InventoryLocation
■ * @fn■■■IsValid
■ * @brief■■verify current set inventory location
■ * @return■true if valid, false otherwise
**/
■proto native bool IsValid ();
■ * @fn■■GetType
■ * @brief■returns type of InventoryLocation
■ * @see■InventoryLocationType for known types of inventory locations
**/
■proto native int GetType ();
■ * @fn■■GetParent
* @brief
returns parent of current inventory location
* Parent entity can be null if item is on ground.
■ * @return parent entity, null otherwise
■proto native EntityAl GetParent ();
■ * @fn■■GetItem
* @brief
returns item of current inventory location
* Item can be null if and only if this is a query for location
* of item that is about to be created (new spawn).
```

■ * @return■item

```
// ----- InventoryMenu.c - START ------
enum ScreenWidthType
■NARROW,
■MEDIUM.
■WIDE
class InventoryMenu extends UIScriptedMenu
■ref Inventory
■ Inventory
■private ref ContextMenu■■■■m_context_menu;
protected bool■■■■■m_lsOpened;
■protected bool■■■■■■ OnlyFirstTime:
■protected int ■■■■■■m_LastDisplayLanguage;
■protected static ScreenWidthType ■ m_WidthType;
■protected static int■■■■ Width:
■protected static int■■■m_Height;
■void InventoryMenu()
•{
■ CheckWidth();
■■m_Inventory = new Inventory(null);
■■m Inventory.Reset();
■■m_Inventory.UpdateInterval();
■■m_context_menu = new ContextMenu;
■■m_LastDisplayLanguage = g_Game.GetCurrentDisplayLanguageIdx();
■}
■override Widget Init()
■■m_Inventory.Init();
■m_context_menu.lnit(layoutRoot);
■■layoutRoot = m_Inventory.GetMainWidget();
■■return layoutRoot;
■}
■void CheckWidth()
■■GetScreenSize( m_Width, m_Height );
\blacksquareif( m_Height > 0 )
■■■float ratio = m_Width / m_Height;
\blacksquare if (ratio > 1.75)
■■■ WidthType = ScreenWidthType.WIDE:
\blacksquare else if( ratio > 1.5)
■■■m_WidthType = ScreenWidthType.MEDIUM;
■■else
■■■m_WidthType = ScreenWidthType.NARROW;
==}
■}
■static ScreenWidthType GetWidthType()
■■return m_WidthType;
```

```
----- InventoryQuickbar.c - START ------
class InventoryQuickbar extends InventoryGridController
■protected ref TltemsMap■m_ltems;
■protected InventoryGrid m_Grid;
■protected int■■■m_DraggingIndex;
void InventoryQuickbar(Widget quickbarGridWidget)
m_DraggingIndex = INDEX_NOT_FOUND;
■■m_Items = new TItemsMap;
■■UpdateItems( quickbarGridWidget );
■void ~InventoryQuickbar()
■}
■void UpdateItems( Widget quickbarGridWidget )
■■if(!quickbarGridWidget)
----
TETreturn:
==}
■■PlayerBase player = PlayerBase.Cast( GetGame().GetPlayer() );
■if (!player)
TETreturn:
■■int i;
■■// create grid and align it to center
■■if(!m_Grid)
■■ quickbarGridWidget.GetScript( m_Grid );
■■■m_Grid.SetController(this);
■■■m_Grid.GenerateQuickBarBackgroundTiles(10);
——}
■■m_Items.Clear();
■InventoryItem item;
■■if( m_Grid )
----
■■■if( m_Grid.GetGridSize() != player.GetQuickBarSize() )
■■■■m_Grid.SetGridSize( player.GetQuickBarSize() );
\blacksquarefor( i = 0; i < m_Grid.GetGridSize(); i++)
■■■item = InventoryItem.Cast( player.GetQuickBarEntity(i) );
■■■if( item )
■■■■m_Items.Set( item, Vector(i, 1, 1) );
```

```
// ----- InventorySlots.c - START -----
/**@class■■InventorySlots
* @brief■■provides access to slot configuration
class InventorySlots
■/**@NOTE: engine pre-populates this class with first 32 slots from CfgSlots (uppercased)
■/** \name C++ constants
■■Constants filled in from C++
*/
I//@{
■//! Amount of pre-populated slots (32)
■const int COUNT:
■//! Invalid slot (-1)
■const int INVALID;
//@}
■#ifdef DIAG_DEVELOPER
mprivate void InventorySlots() {}
□private void ~InventorySlots() {}
■#else
■void InventorySlots() {}
■void ~InventorySlots() {}
■#endif
■/**@fn■■GetSlotIdFromString
* @brief converts string to slot_id
■ * @param[in]■slot_name ■\p■slot name to be find.
* @return slot id or InventorySlots.INVALID
■ * @example
* * * int slot = InventorySlots.GetSlotIdFromString("FireWood");
*■■if (slot != InventorySlots.INVALID)
■ * @NOTE the example looks in the DZ/data/config.cpp and searches for class entry Slot_##slot_name
* i.e. it does NOT look at name= or displayName= attributes of the entry!
■static proto native int GetSlotIdFromString(string slot_name);
■/**@fn■■GetSlotName
■ * @brief converts slot_id to string
■ * @param[in]■slot_id■\p■slot id to be find.
■ * @return string or null string
**/
■static proto native owned string GetSlotName(int id);
■/**@fn■■GetSlotDisplayName
* @brief converts slot_id to string
* @param[in]■slot_id■\p■slot id to be find.
* @return string or null string
■static proto native owned string GetSlotDisplayName(int id);
■/**@fn■■IsSlotIdValid
* @brief
verifies existence of the slot id
* @return true if slot valid
```

```
// ----- Inventory_Base.c - START ------
class Inventory_Base extends ItemBase
// ----- Inventory_Base.c - END ------
// ----- InviteMenu.c - START -----
class InviteMenu extends UIScriptedMenu
■private TextWidget■■m_LogoutTimetext;
■private TextWidget■m_Info;
■private int m_iTime;
■void InviteMenu()
\blacksquare \blacksquare m_iTime = 15;
■}
■override Widget Init()
■■layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/day_z_invite_dialog.layout");
■■m_LogoutTimetext = TextWidget.Cast(layoutRoot.FindAnyWidget("logoutTimeText"));
Implication
Info = TextWidget.Cast(layoutRoot.FindAnyWidget("txtInfo"));
■■m_LogoutTimetext.SetText(m_iTime.ToString());
■■layoutRoot.FindAnyWidget("toolbar_bg").Show(true);
■■RichTextWidget toolbar_b = RichTextWidget.Cast(layoutRoot.FindAnyWidget("BackIcon"));
■■toolbar_b.SetText(InputUtils.GetRichtextButtonIconFromInputAction("UAUIBack", "", EUAINPUT_DEV
■■// player should sit down if possible
■■PlayerBase player = PlayerBase.Cast(GetGame().GetPlayer());
■■if (player && player.GetÉmoteManager() && !player.IsRestrained() && !player.IsUnconscious())
■■■player.GetEmoteManager().CreateEmoteCBFromMenu(EmoteConstants.ID_EMOTE_SITA);
■■■player.GetEmoteManager().GetEmoteLauncher().SetForced(EmoteLauncher.FORCE_DIFFERENT);
■■GetGame().GetCallQueue(CALL_CATEGORY_SYSTEM).CallLater(UpdateTime, 1000, true);
■■return layoutRoot;
■override void OnShow()
■■super.OnShow();
■override void Update(float timeslice)
```

■■if (GetHAni() GetInnutRyID(HALIIRack) LocalPress())

```
class IodineTincture : Edible_Base
■override void InitItemVariables()
■■super.InitItemVariables();
■■can_this_be_combined = true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionDisinfectTarget);
■■AddAction(ActionDisinfectSelf);;
■■AddAction(ActionWashHandsItem);
■■//AddAction(ActionForceDrinkDisinfectant);
■■//AddAction(ActionDrinkDisinfectant);
■override float GetDisinfectQuantity(int system = 0, Param param1 = null)
■■return (GetQuantityMax() * 0.05);
// -----
// ----- IsBoxCollidingGeometryProxyClasses.c - START ------
//! Class that holds parameters to feed into CGame.lsBoxCollidingGeometryProxy
class BoxCollidingParams
■\brief Set the parameters
   \param center \p vector Center of box
■■\param orientation \p vector Orientation of box
■■\param edgeLength \p vector EdgeLength of box
■■\param primaryType \p vector Primary geometry to check
■■\param secondaryType \p vector Secondary geometry to check (if no backup is needed, fill in the same
■■\param fullComponentInfo \p vector When true gives information about every component and proxy in I
■proto native void SetParams(vector center, vector orientation, vector edgeLength, ObjIntersect primaryTy
//! ComponentInfo for BoxCollidingResult
class ComponentInfo
■int component;■■■//!< Component index
■vector componentMin; ■//!< Component min in world space
```

■vector componentMay: ■///< Component may in world space

```
// ----- ItemActionsWidget.c - START ------
class ItemActionsWidget extends ScriptedWidgetEventHandler
■protected PlayerBase ■■■m_Player;
■protected EntityAl ■■■■■m_EntityInHands;
■protected ActionBase■■■m_Interact;
■ protected ActionBase ■ ■ ContinuousInteract:
■protected ActionBase■■■m_Single;
■protected ActionBase■■■■m_Continuous;
■protected ActionManagerClient ■ m_AM;
■protected IngameHud■■■■m_Hud;
■protected UAIDWrapper ■■■■m_UseActionWrapper;
■protected int■■■■■m_InteractActionsNum;
■protected int■■■■■m_ContinuousInteractActionsNum;
■protected int■■■■■m_ItemActionsNum;
■protected int■■■■■ ContinuousItemActionsNum;
■protected bool ■■■■■■m_HealthEnabled;
■protected bool
■■■■■■
QuantityEnabled;
■protected ref WidgetFadeTimer
■ m_FadeTimer;
■protected bool■■■■■■m_Faded;
■protected bool ■■■■■■m_Hidden;
■protected Widget■■■■m_Root;
■protected Widget ■■■■m_ItemLeft;
■//! widget width
protected float m_MaxWidthChild;
■protected float m_RootWidth;
■protected float m_RootHeight;
■void ItemActionsWidget()
■■m Interact■■■= null;
■■m_ContinuousInteract ■= null;
■■m_Single ■■■= null;
■■m_Continuous ■■= null;
■■m AM ■■■■= null;
■■m FadeTimer ■■■= new WidgetFadeTimer;
■■m_Faded ■■■= true;
■■m_HealthEnabled ■■= true;
■■m_QuantityEnabled ■■= true;
■■m_Hud■■■■■= GetHud();
■■m_Hidden ■■■= true;
■■m UseActionWrapper ■■= GetUApi().GetInputByID(UAAction).GetPersistentWrapper():
■■GetGame().GetUpdateQueue(CALL_CATEGORY_GUI).Insert(Update);
■■GetGame().GetMission().GetOnInputPresetChanged().Insert(OnInputPresetChanged);
■■GetGame().GetMission().GetOnInputDeviceChanged().Insert(OnInputDeviceChanged);
```

■void ~ItemActionsWidget()

```
// ----- ItemBase.c - START -----
typedef ItemBase Inventory_Base;
class Dummyltem extends ItemBase
Eoverride bool CanPutAsAttachment(EntityAl parent)
■ return true;
■}
};
//const bool QUANTITY_DEBUG_REMOVE_ME = false;
class ItemBase extends InventoryItem
■static ref map<typename, ref TInputActionMap> m_ItemTypeActionsMap = new map<typename, ref TInp
■TInputActionMap m_InputActionMap;
■bool■m_ActionsInitialize:
■static int m_DebugActionsMask;
■bool■■m_RecipesInitialized;
■// =========
■// Variable Manipulation System
■//ref map<string,string> ■m_ItemVarsString;
■int■■m_VariablesMask;//this holds information about which vars have been changed from their default variables.
■// Quantity
■float ■m_VarQuantity;
■float ■m_VarQuantityPrev;//for client to know quantity changed during synchronization
■int■■m_VarQuantityInit;
■int■■m_VarQuantityMin;
■int■■m_VarQuantityMax;
■int■■m_Count;
■float■m_VarStackMax;
■float■m_StoreLoadedQuantity = float.LOWEST;
■// Temperature
■float ■m_VarTemperature;
■float ■m_VarTemperatureInit;
■float ■m_VarTemperatureMin;
■float ■m_VarTemperatureMax;
■// Wet
■float ■m_VarWet;
■float ■m_VarWetPrev;//for client to know wetness changed during synchronization ■float ■m_VarWetInit;
■float ■m_VarWetMin;
■float ■m_VarWetMax;
■// Cleanness
■int■■m_Cleanness;
■int■■m_CleannessInit;
■int■m_CleannessMin;
■int■m_CleannessMax;
■// impact sounds
■bool m_WantPlayImpactSound;
■bool■m_CanPlayImpactSound = true;
■float■m_ImpactSpeed;
```

■int■■m_ImpactSoundSurfaceHash;

```
----- ItemBook.c - START ------
class ItemBook extends InventoryItemSuper
■override event bool OnUseFromInventory(Man owner)
■return false;
■// IGNITION ACTION
■override bool HasFlammableMaterial()
■return true;
■override bool CanBelgnitedBy( EntityAl igniter = NULL )
■if (GetHierarchyParent()) return false;
■ return true;
■}
■override bool CanIgniteItem( EntityAI ignite_target = NULL )
■ return false;
■override void OnIgnitedTarget( EntityAl ignited_item )
■override void OnIgnitedThis( EntityAl fire_source )
■■Fireplace.IgniteEntityAsFireplace(this, fire_source);
■override bool IsThisIgnitionSuccessful( EntityAl item_source = NULL )
■ireturn Fireplace.CanIgniteEntityAsFireplace(this);
■}■
// ----- ItemBook.c - END ------
// ----- ItemDropWarningMenu.c - START ------
class WarningMenuBase extends UIScriptedMenu
■void WarningMenuBase()
```

■■GetGame() GetMission() AddActiveInnutExcludes(("menu")):

```
// ----- ItemManager.c - START ------
class ItemManager
■private ref static ItemManager■■m_Instance;
■protected bool■■■■■m_lsDragging;
■protected EntityAl■■■■m_HoveredItem;
protected bool
■protected EntityAl■■■■m_DraggedItem;
■protected Icon■■■■■■m_DraggedIcon;
■protected ref Widget■■■m_TooltipWidget;
■protected ref Widget■■■m_TooltipSlotWidget;
■protected ref Widget■■■m_TooltipCategoryWidget;
■protected ItemPreviewWidget■■■m_ItemPreviewWidget;
■protected Widget■■■■m_RootWidget;
■protected ref map<string, bool>■■m_DefautOpenStates;
■protected ref map<string, bool>■■m_DefautHeaderOpenStates;
■protected int■■■■■■ HandsDefaultOpenState;
■ protected ref Timer ■ ■ ■ ■ ToolTipTimer;
■protected ref Timer■■■■m_TooltipSlotTimer;
■protected EntityAl■■■■m_SelectedItem;
■protected Container
■■■■ SelectedContainer:
■protected Widget■■■■m_SelectedWidget;
■protected SlotsIcon■■■■■m_SelectedIcon;
■protected HandsPreview■■■■m_HandsPreview;
■protected bool■■■■■■m_ItemMicromanagmentMode;
■protected Widget■■■■m_LeftDropzone;
■protected Widget■■■■m_CenterDropzone;
■protected Widget■■■■m_RightDropzone;
■protected int ■■■■■m_TooltipPosX;
■protected int ■■■■■m_TooltipPosY;
■protected Widget ■■■■■m_TooltipSourceWidget; //stored here for tooltip position updates
■#ifndef PLATFORM_CONSOLE
■protected const float TOOLTIP_DELAY = 0.25; // in seconds
■protected const float TOOLTIP DELAY = 1.5; // in seconds
■#endif
■void ItemManager( Widget root )
■■m_Instance■■■■= this;
■ ■ ■ m_RootWidget■ ■ ■ = root;
■■m_DefautOpenStates■■= new map<string, bool>;
■■m_DefautHeaderOpenStates■= new map<string, bool>;
■■m_SlotInfoShown■■■= false;
■#ifdef PLATFORM CONSOLE
■■■m_TooltipWidget■■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/inventory_new/day_
■■■m_TooltipSlotWidget■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/inventory_new/da
■#else
■■■m_TooltipWidget■■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/inventory_new/day_
■■■m_TooltipSlotWidget■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/inventory_new/da
```

■■#endif
■■m TooltinWidget Show(false):

```
// ----- ItemOptics.c - START ------
class ItemOptics extends InventoryItemSuper
■bool ■■■■m_data_set;
■bool ■■■■m_allowsDOF; //true if optics DOES NOT have magnification (FOV >= DZPLAYER_CAMER.
■bool ■■■■m_reddot_displayed
■bool ■■■■m_isNVOptic = false;
■int ■■■■m_CurrentOpticMode; //generic optic mode, currently used for NV optics only (could be expand
■int ■■■■m_CurrentOpticModeLocal; //local mirror for sync purposes;
■int ■■■■m_reddot_index;
■float ■■■■m_blur_float;
■float ■■■■m_nearplane_override; //override value for DayZPlayerCameraOptics only!
■string ■■■■m_optic_sight_texture;
■string ■■■■m_optic_sight_material;
■string ■■■■m_2D_preload_type;
■ref array<float> ■m_mask_array;
■ref array<float> ■m_lens_array;
■ref array<float> ■m_OpticsDOFProperties;
■void ItemOptics()
•{
■■m_mask_array = new array<float>;
■■m lens array = new array<float>;
Image: Imag
■■InitReddotData();
■■InitOpticsPPInfo();
■■InitCameraOverrideProperties();
■■InitOpticsDOFProperties(m_OpticsDOFProperties);
■■Init2DPreloadType();
■■InitOpticMode();
■■m_CurrentOpticModeLocal = -1;
■■RegisterNetSyncVariableInt( "m_CurrentOpticMode", 0, 63 );
■/**@fn■■EnterOptics
■ * @brief■switches to optics mode if possible
 * @return true if success, false otherwise
■proto native bool EnterOptics ();
■/**@fn■■IsInOptics
■ * @brief■is weapon in optics mode or not
* @return true if in optics mode, false otherwise
■proto native bool IsInOptics ();
■/**@fn■■ExitOptics
* @brief
switches out of optics mode (if possible)
* @return true if success, false otherwise
■proto native bool ExitOptics ();
■/**@fn■■HasWeaponIronsightsOverride
■ * @brief■is weapon in optics mode or not
 * @return true if optics has defined override optics info for weapon
```

■nroto native hool HasWeanonIronsightsOverride ()·

```
// ----- ItemsCounter.c - START ------//
class ItemsCounter: ScriptedWidgetEventHandler
■bool NumberOfItems;
■void OnWidgetScriptInit(Widget w)
  Widget child = w.GetChildren();
  while (child)
    child = child.GetSibling();
    NumberOfItems++;
// ----- ItemsCounter.c - END -----
// ----- Izh18.c - START -----
/**@class■■Izh18_Base
  @brief■■base for Izh18
* @NOTE■■name copies config base class
class Izh18_Base extends RifleSingleShot_Base
■void Izh18_Base ()
■override RecoilBase SpawnRecoilObject()

■ireturn new Izh18Recoil(this);

■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■■super.OnDebugSpawn();
■EntityAl entity;
■■if (Class.CastTo(entity, this))
■■■entity.SpawnEntityOnGroundPos("Ammo_762x39", entity.GetPosition());
```

```
// ----- Izh18Recoil.c - START ------
class Izh18Recoil: RecoilBase
■override void Init()
■{
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRan
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.125;
■■m_MouseOffsetRangeMin = 80;//in degrees min
■■m_MouseOffsetRangeMax = 100;//in degrees max
■■m_MouseOffsetDistance = 1.4;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.0625;//[0..1] a time it takes to move the mouse the required distance
■■m_CamOffsetDistance = 0.02;
■■m_CamOffsetRelativeTime = 0.125;
}
// -----
// ----- Izh18Recoil.c - END ------
// ----- Izh18SawedOffRecoil.c - START ------
class Izh18SawedOffRecoil: RecoilBase
■override void Init()
 ■■vector point_1;
■■vector point_2;
  vector point_3;
■■vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSy
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange(
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
```

■■m HandsOffsetRelativeTime – 0 125

```
/**@class■Izh18_Base
     @brief■■base for Izh18Shotgun
  * @NOTE■■name copies config base class
class Izh18Shotgun_Base extends RifleSingleShot_Base
■void Izh18Shotgun_Base ()
■}
■override RecoilBase SpawnRecoilObject()
■■return new Izh18ShotgunRecoil(this);
 ■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■■super.OnDebugSpawn();
          SpawnEntityOnGroundPos("Ammo_12gaPellets", GetPosition());
          SpawnEntityOnGroundPos("Ammo_12gaSlug", GetPosition()); SpawnEntityOnGroundPos("Ammo_12gaRubberSlug", GetPosition());
};
// ----- Izh18ShotgunRecoil.c - START ------
class Izh18ShotgunRecoil: RecoilBase
 ■override void Init()
■{
■■vector point_1;
■■vector point_2;
■■vector point_3;
Evector point 4:
 ■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncMan
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
 ■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.125;
```

■■m MouseOffsetRangeMin – 70://in degrees min

```
// ----- IZH43.c - START ------
class Izh43Shotgun_Base : DoubleBarrel_Base
■override RecoilBase SpawnRecoilObject()
■■return new Izh43Recoil(this);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■■super.OnDebugSpawn();
■EntityAl entity;
■■if ( Class.CastTo(entity, this) )
■■■entity.SpawnEntityOnGroundPos("Ammo_12gaPellets", entity.GetPosition());
■■■entity.SpawnEntityOnGroundPos("Ammo_12gaSlug", entity.GetPosition());
■■■entity.SpawnEntityOnGroundPos("Ammo_12gaRubberSlug", entity.GetPosition());
——}
■}
};
class Izh43Shotgun: Izh43Shotgun_Base {};
class SawedoffIzh43Shotgun: Izh43Shotgun_Base {};
// -----
// ----- IZH43.c - END -----
// -----
// ----- Izh43Recoil.c - START ------
// -----
class Izh43Recoil: RecoilBase
  ■override void Init()
■{
■■vector point_1;
■■vector point_2;
■■vector point_3;
Evector point 4:
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRan
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncMan
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
  ■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.125;
```

■■m MouseOffsetRangeMin – 70://in degrees min

```
....// ----- Jeans_ColorBase.c - START ------
class Jeans_ColorBase extends Clothing
■override void SetActions()
■ super.SetActions();
■■AddAction(ActionWringClothes);
class Jeans_Black extends Jeans_ColorBase {};
class Jeans_Blue extends Jeans_ColorBase {};
class Jeans_Brown extends Jeans_ColorBase {};
class Jeans_Green extends Jeans_ColorBase {};
class Jeans_Grey extends Jeans_ColorBase {};
class Jeans_BlueDark extends Jeans_ColorBase {};
class ShortJeans_ColorBase extends Clothing
override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
class ShortJeans_Black extends ShortJeans_ColorBase {};
class ShortJeans_Blue extends ShortJeans_ColorBase {};
class ShortJeans_Brown extends ShortJeans_ColorBase {}
class ShortJeans_Darkblue extends ShortJeans_ColorBase {};
class ShortJeans_Green extends ShortJeans_ColorBase {};
class ShortJeans_Red extends ShortJeans_ColorBase {};
// ----- Jeans_ColorBase.c - END ------
...
// ----- JoggingShoes_ColorBase.c - START ----------//
class JoggingShoes_ColorBase extends Clothing {};
class JoggingShoes_Black extends JoggingShoes_ColorBase {};
class JoggingShoes_Blue extends JoggingShoes_ColorBase {}; class JoggingShoes_Red extends JoggingShoes_ColorBase {};
class JoggingShoes_Violet extends JoggingShoes_ColorBase {}; class JoggingShoes_White extends JoggingShoes_ColorBase {};
```

```
// ----- JsonApi.c - START -----
/** @file */
// error codes for handle processing
// defined in C++
enum EJsonApiError
■ETJSON_UNKNOWN,■■■// invalid code
■ETJSON_OK,■■■■// all fine
■ETJSON_COMMSEND,■■// error during send
■ETJSON_COMMRECV,■■// error during send
■ETJSON_COMMRECV,■■// error during receive
■ETJSON_PARSERERROR,■■// error during parsing
■ETJSON_PACKNOSTART,■■// error - cannot start packing (invalid state)
■ETJSON_TIMEOUT,■■■// failed to send/ store handle due to timeout
■ETJSON_NOBUFFÉRS,■■// not enough buffers available
■ETJSON_FAILFILELOAD,■// failed to load file ■ETJSON_FAILFILESAVE,■// failed to save file
■ETJSON_NOTARRAY,■■// object is not array (ie. attempt to provide different or none object as array)
};
// JsonApi Handle is container encapsulating real JSON data being sent or recieved via. RESTful/ other se
class JsonApiHandle
■private void JsonApiHandle() {}
■private void ~JsonApiHandle() {}
/**
■\brief Length of JSON
■proto native int Size();
■\brief Return as string
■proto native owned string AsString();
■\brief Invalidate handle and schedule removal
■proto native void Invalidate();
};
// parent class for handling JsonApi Struct objects
class JsonApi
■private void JsonApi() {}
■private void ~JsonApi() {}
```

```
/** @file */
// object which allow to parse upon generic JSON structure and format it back
//
class JsonApiStruct : Managed
■void JsonApiStruct()
■void ~JsonApiStruct()
■\brief Event when expand (unpack) process starts
■void OnExpand()
■\brief Event when pack starts - you will pack your stuff here
■void OnPack()
■ Print( "OnPack() ");
■\brief Verification event after successfull JSON packing
■void OnBufferReady()
■\brief Event called when pending store operation is finished - callback from JsonApiHandle before handle
■void OnSuccess( int errorCode )
■ in // errorCode is EJsonApiError
■}
■\brief Event called when pending store operation is finished - callback from JsonApiHandle before handle
■void OnError( int errorCode )
■■// errorCode is EJsonApiError
■}
```

■\hrief Called when narsing object

```
// ----- JsonDataContaminatedArea.c - START ------
// JSON data structure
class JsonDataContaminatedAreas: Managed
■ref array<ref JsonDataContaminatedArea> Areas;
■ref array<ref array<float>> SafePositions;
class JsonDataContaminatedArea: Managed
■string AreaName;
■string Type;
■string TriggerType;
■JsonDataAreaData Data:
■JsonDataPlayerData PlayerData;
};
class JsonDataAreaData: Managed
■ref array<float> Pos;
■float Radius;
■float PosHeight;
■float NegHeight;
■int InnerRingCount;
■int InnerPartDist:
■bool OuterRingToggle;
■int OuterPartDist;
■int OuterOffset;
■int VerticalLavers:
■int VerticalOffset:
■string ParticleName;
};
class JsonDataPlayerData: Managed
string AroundPartName:
■string TinyPartName;
■string PPÉRequesterType;
}
// ----- JsonDataContaminatedArea.c - END -----
// -----
// ----- JsonDataCredits.c - START -----
class JsonDataCredits: Managed
■ref array<ref JsonDataCreditsDepartment> Departments;
};
```

```
// ----- JsonDataCreditsDepartment.c - START ------
class JsonDataCreditsDepartment : Managed
■string DepartmentName;
■ref array<ref JsonDataCreditsSection> Sections;
// ----- JsonDataCreditsDepartment.c - END ------
// -----
// ----- JsonDataCreditsSection.c - START -----
class JsonDataCreditsSection: Managed
■string SectionName;
■ref array<string> SectionLines;
};
// ----- JsonDataCreditsSection.c - END -----
// ----- JsonFileLoader.c - START -----
class JsonFileLoader<Class T>
■protected static ref JsonSerializer m_Serializer = new JsonSerializer;
■static void JsonLoadFile( string filename, out T data )
■■if(FileExist(filename))
■■■string file_content;
String line_content;
■■string error;
■■■FileHandle handle = OpenFile(filename, FileMode.READ);
■■■if ( handle == 0 )
EXECreturn;
 ■■■while ( FGets( handle, line_content ) >= 0 )
```

■■■file content +- line content:

```
// ----- JsonObject.c - START ------
class JsonObject
■ref map<string, string> ■■m_Strings;
■ref map<string, int>■■m_Ints;
■ref map<string, float>■■■m_Floats;
■ref map<string, bool>■■■m_Bools;
■ref map<string, ref Vector2>■m_Vectors2;
■void JsonObject()
•{
■■m_Strings■= new map<string, string>;
■■m_Ints■■= new map<string, int>;
■■m_Floats■= new map<string, float>;
■■m_Bools■■= new map<string, bool>;
■■m_Vectors2■= new map<string, ref Vector2>;
■void ~JsonObject()
■■Clear();
■}
■void Clear()
!
■m_Strings.Clear();
■m_Ints.Clear();
■■m_Floats.Clear();
■■m_Bools.Clear();
■■m_Vectors2.Clear();
■void AddString(string name, string value)
■{
array<string> strgs = new array<string>;
■■value.Split("\"", strgs);
\blacksquare if (strgs.Count() > 1)
----
■■■value = "":
■■■int str_count = strgs.Count();
\blacksquare for (int i = 0; i < str_count; ++i)
\blacksquare string s = strgs[i];
\blacksquare int length = s.Length();
■■■if (s[length - 1]!= "\\")
IIIIIII value += s:
■■■■if (i < str_count - 1 )
  ■■■■value += "\\";
■■■■■value += "\"";
```

Į į

```
// ----- JumpEvents.c - START -----
class JumpEventsBase extends PlayerSoundEventBase
■override bool HasPriorityOverCurrent(PlayerBase player, EPlayerSoundEventID other_state_id, EPlayer
■ return true;
■override bool CanPlay(PlayerBase player)
■■if(!super.CanPlay(player))
■■return false;
■ return true;
■override void OnPlay(PlayerBase player)
■■super.OnPlay(player);
■■if( player.CanSpawnBreathVaporEffect() )
■■player.SpawnBreathVaporEffect();
■override void OnEnd()
■■super.OnEnd();
■■//m_Player.GetStaminaSoundHandlerClient().PostponeStamina(1000);
■if(m Player)
■■■StaminaSoundHandlerClient.Cast(m_Player.m_PlayerSoundManagerClient.GetHandler(eSoundHandlerClient.Cast(m_Player.m_PlayerSoundManagerClient.GetHandler(eSoundHandlerClient.Cast(m_Player.m_PlayerSoundManagerClient.GetHandler(eSoundHandlerClient.Cast(m_Player.m_PlayerSoundManagerClient.GetHandler(eSoundHandlerClient.Cast(m_Player.m_PlayerSoundManagerClient.GetHandler(eSoundHandlerClient.Cast(m_Player.m_PlayerSoundManagerClient.GetHandler(eSoundHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.GetHandlerClient.Get
class JumpSoundEvent extends JumpEventsBase
■void JumpSoundEvent()
■ Type = EPlayerSoundEventType.GENERAL;
m_ID = EPlayerSoundEventID.JUMP;
■■m_SoundVoiceAnimEventClassID = 18;
// ----- JumpEvents.c - END ------//
// ----- JumpsuitJacket_ColorBase.c - START ------
class JumpsuitJacket_ColorBase extends Clothing
■override void SetActions()
```

```
// ----- JumpsuitPants_ColorBase.c - START ------
class JumpsuitPants_ColorBase extends Clothing
■override void SetActions()
■ super.SetActions();
■■AddAction(ActionWringClothes);
class JumpsuitPants_Blue extends JumpsuitPants_ColorBase {};
class JumpsuitPants_Green extends JumpsuitPants_ColorBase {};
class JumpsuitPants_Grey extends JumpsuitPants_ColorBase {};
class JumpsuitPants_Red extends JumpsuitPants_ColorBase {};
....// -----    JumpsuitPants_ColorBase.c - END ------
// ----- Junctures.c - START ------
bool TryAcquireInventoryJunctureFromServer (notnull Man player, notnull InventoryLocation src, notnull In
if (player.NeedInventoryJunctureFromServer(src.GetItem(), src.GetParent(), dst.GetParent()))
■■if ( ( src.GetItem() && src.GetItem().IsSetForDeletion() ) || ( src.GetParent() && src.GetParent().IsSetForDeletion() ) ||
■■ return JunctureRequestResult.JUNCTURE_DENIED;
■■bool test_dst_occupancy = true;
■■if (GetGame().AddInventoryJunctureEx(player, src.GetItem(), dst, test_dst_occupancy, GameInventory
■■■syncDebugPrint("[syncinv] juncture needed and acquired, player=" + Object.GetDebugName(player)
■■■return JunctureRequestResult.JUNCTURE_ACQUIRED; // ok
■■else
■■■syncDebugPrint("[syncinv] juncture request DENIED, player=" + Object.GetDebugName(player) + " S
■■■return JunctureRequestResult.JUNCTURE_DENIED; // permission to perform juncture denied
■}
■else
■■syncDebugPrint("[syncinv] juncture not required, player=" + Object.GetDebugName(player) + " STS = '■ return JunctureRequestResult.JUNCTURE_NOT_REQUIRED; // juncture not necessary
■}
bool TryAcquireTwoInventoryJuncturesFromServer (notnull Man player, notnull InventoryLocation src1, no
#ifdef DEVELOPER
■if ( LogManager.IsInventoryReservationLogEnable() )
■■Debug InventoryReservationLog("STS - " + player GetSimulationTimeStamp() + " src1:" + src1 Dump]
```

```
// ----- JungleBoots_ColorBase.c - START -----
class JungleBoots_ColorBase extends Clothing {};
class JungleBoots_Beige extends JungleBoots_ColorBase {};
class JungleBoots_Black extends JungleBoots_ColorBase ();
class JungleBoots_Brown extends JungleBoots_ColorBase ();
class JungleBoots_Green extends JungleBoots_ColorBase {};
class JungleBoots_Olive extends JungleBoots_ColorBase {};
// ----- JungleBoots_ColorBase.c - END ------
// ----- KeyBinding.c - START ------
class KeyBinding
■private int■■m_ActiveUIMenuID;
private int■m_Key1;
private int■m_Key2;
■private string■m_CallbackTarget;
■private string m_CallbackFunction;
■private string m_InfoKeys;
■private string■m_InfoDescription
■void KeyBinding(int ui_id, int key1, int key2, string call_target, string call_function, string info_bind, string
■■m_ActiveUIMenuID■= ui_id;
■■m_Key1■■■= key1;
■ ■ ■ ■ ■ ■ = key2;
■■m_CallbackTarget■= call_target;
■■m_CallbackFunction■= call_function;
■■m_InfoKeys■■= info_bind;
■■m_InfoDescription■= info_description;
■}
■int GetUIMenuID()
■■return m_ActiveUIMenuID;
■}
■int GetKey1()
■■return m_Key1;
■}
■int GetKey2()
■■return m_Key2;
■string GetCallbackTarget()
```

■■return m_CallbackTarget;

```
----- KeybindingElement.c - START ------
//! Deprecated
class KeybindingElement extends ScriptedWidgetEventHandler
■protected KeybindingsGroup
■■■ m_Group;
■protected Widget■■■■■ Root;
■protected TextWidget■■■■m_ElementName;
■protected TextWidget■■■■m_ElementModifier;
■protected ButtonWidget■■■■m_PrimaryBindButton;
■protected ButtonWidget■■■■m_AlternativeBindButton;
■ protected Widget ■ ■ ■ Primary Clear;
■protected Widget■■■■■m_AlternativeClear;
■protected int■■■■■■m_ElementIndex;
■protected bool■■■■■■■ IsEdited:
■protected bool■■■■■■■m_lsAlternateEdited;
■protected ref array<int>■■■■m_CustomBind;
■protected ref array<int>■■■■m_CustomAlternateBind;
■protected ref Timer■■■■■■■ EntryTimer = new Timer( CALL_CATEGORY_GUI );
■void KeybindingElement( int key_index, Widget parent, KeybindingsGroup group )
■■m_Root■■■■= GetGame().GetWorkspace().CreateWidgets( GetLayoutName(), parent );
■■m_ElementName■■= TextWidget.Cast( m_Root.FindAnyWidget( "setting_label" ) );
■■m_ElementModifier■■= TextWidget.Cast( m_Root.FindAnyWidget( "modifier_label" ) );
■■m_PrimaryBindButton■■= ButtonWidget.Cast( m_Root.FindAnyWidget( "primary_bind" ) );
■■m_AlternativeBindButton■= ButtonWidget.Cast( m_Root.FindAnyWidget( "alternative_bind" ) );
■■m_PrimaryClear■■= m_Root.FindAnyWidget(`"primary_clear" );
■■m_AlternativeClear■■= m_Root.FindAnyWidget( "alternative_clear");
■■m Group■■■■= group;
■■m_ElementIndex■■= key_index;
■■Reload();
■■m_Root.SetHandler( this );
■}
■string GetLayoutName()
■■return "gui/layouts/new_ui/options/keybindings_selectors/keybinding_option.layout";
■}
■bool IsChanged()
■■return m_lsEdited;
■bool IsAlternateChanged()
■■return m_lsAlternateEdited;
■array<int> GetChangedBinds()
■■return m CustomBind:
```

```
// ----- KeybindingElementNew.c - START ------
class KeybindingElementNew extends ScriptedWidgetEventHandler
■protected KeybindingsContainer
■■m_Container;
■protected Widget■■■■■m_Root;
■protected TextWidget■■■■ ElementName;
■protected TextWidget■■■■■m_ElementModifier;
■protected ButtonWidget■■■■m_PrimaryBindButton;
■protected ButtonWidget■■■■m_AlternativeBindButton;
■ protected Widget ■ ■ ■ Primary Clear;
■protected Widget■■■■■ AlternativeClear:
■ protected int■■■■■■ ElementIndex;
■protected bool■■■■■■■ IsEdited;
■protected bool■■■■■■■m_lsAlternateEdited;
■protected ref array<int>■■■■ CustomBind:
■protected ref array<int>■■■■m_CustomAlternateBind;
■protected ref Timer■■■■■■■m_EntryTimer = new Timer( CALL_CATEGORY_GUI );
■void KeybindingElementNew(int key_index, Widget parent, KeybindingsContainer group)
■ Im_Root ■■■■ GetGame().GetWorkspace().CreateWidgets( GetLayoutName(), parent );
■■m_ElementName■■= TextWidget.Cast( m_Root.FindAnyWidget( "setting_label" ) );
■■m_ElementModifier■= TextWidget.Cast( m_Root.FindAnyWidget( "modifier_label" ) );
■■m_PrimaryBindButton■■= ButtonWidget.Cast( m_Root.FindAnyWidget( "primary_bind" ) );
■■m AlternativeBindButton■= ButtonWidget.Cast( m_Root.FindAnyWidget( "alternative_bind" ) );
■■m_PrimaryClear■■= m_Root.FindAnyWidget( "primary_clear" );
■■m_AlternativeClear■= m_Root.FindAnyWidget( "alternative_clear" );
■■m_Container■■■■= group;
■■m_ElementIndex■■= key_index;
■■Reload():
■■m_Root.SetHandler( this );
■string GetLayoutName()
■■return "gui/layouts/new_ui/options/keybindings_selectors/keybinding_option.layout";
■bool IsChanged()
■■return m_lsEdited;
■}
■bool IsAlternateChanged()
■■return m_IsAlternateEdited;
■array<int> GetChangedBinds()
■■return m_CustomBind;
```

```
----- KeybindingsContainer.c - START ------
//container for various subgroups and their elements
class KeybindingsContainer extends ScriptedWidgetEventHandler
■protected const int ■■■■■■■NO_SORTING = -1;
■protected Widget■■■■■■■■m_Root;
■protected KeybindingsMenu■■■■■■■m_Menu;
■protected ScrollWidget ■■■■■■■■■■■■■■Scroll;
■protected ref map<int, ref ElementArray>■■■m_KeyWidgetElements; //<input_action_id,<KeybindingElementS</p>
■protected int■■■■■■■■■■■■■■■ CurrentSettingKeyIndex = -1;
■protected int■■■■■■■■■■ CurrentSettingAlternateKeyIndex = -1;
■protected ref array<Widget> ■■■■■■m_Subgroups;
■void KeybindingsContainer(int index, Input input, Widget parent, KeybindingsMenu menu)
■■m_KeyWidgetElements■= new map<int, ref ElementArray>;
■■m_Menu■■= menu;
■■m_Root■= GetGame().GetWorkspace().CreateWidgets( GetLayoutName(), parent );
■■m_Scroll = ScrollWidget.Cast(m_Root.FindAnyWidget("group_scroll"));
■■Widget container■= m_Root.FindAnyWidget( "group_scroll" );
■■CreateSubgroups(container,input);
■■container.Update();
■■m_Root.SetHandler( this );
•}
■string GetLayoutName()
■ return "gui/layouts/new_ui/options/keybindings_selectors/keybinding_container.layout";
■void OnSelectKBPreset( int index )
■■GetUApi().PresetSelect(index);
■■ReloadElements();
■■GetUApi().Export();
■■GetUApi().SaveInputPresetMiscData();
■}
■void ReloadElements()
■■foreach ( ElementArray elements : m_KeyWidgetElements )
■■■foreach (KeybindingElementNew element : elements)
■■■element.Reload();
■■}
■}
■void AddSubgroup( int sort_index, Widget parent, Input input )
■■Widget subgroup■■■■= GetGame().GetWorkspace().CreateWidgets( "gui/layouts/new_ui/options/key
```

■■Widget subgroup, content ■— subgroup FindAnyWidget("subgroup, content")

```
// ------
// ----- KeybindingsEntryWindow.c - END ------
// ----- KeybindingsGroup.c - START -------------//
//! Deprecated
class KeybindingsGroup extends ScriptedWidgetEventHandler
■protected Widget■■■■■■■■m_Root;
■protected KeybindingsMenu■■■■■■■■■Menu;
■protected ref map<int, ref KeybindingElement>■■m_KeyWidgets;
■ protected int ■■■■■■■■■■ Current Setting KeyIndex = -1;
■protected int■■■■■■■■■■ CurrentSettingAlternateKeyIndex = -1;
■protected ref DropdownPrefab■■■■■■m_KBDropdown;
■void KeybindingsGroup(int index, Input input, Widget parent, KeybindingsMenu menu)
■ KeyWidgets = new map<int, ref KeybindingElement>;
■■m_Menu■■= menu;
■■string group_name;
■■input.GetActionGroupName(index, group_name);
■■m_Root■= GetGame().GetWorkspace().CreateWidgets( GetLayoutName(), parent );
■■Widget subgroup■= m_Root.FindAnyWidget( "group_content" );
//\blacksquarefor( int i = 0; i < 1; i++ )
■■■AddSubgroup(/*index, */subgroup, input);
//■■}
■■InitPresets(index, m_Root.FindAnyWidget("group_header"), input);
■■subgroup.Update();
■■m_Root.SetHandler( this );
■}
■string GetLayoutName()
■■return "gui/layouts/new_ui/options/keybindings_selectors/keybinding_group.layout";
■}
■void InitPresets(int index, Widget parent, Input input)
■■Widget kb_root = parent.FindAnyWidget( "keyboard_dropown" );
```

string profile text.

```
// ----- KeybindingsMenu.c - START -----
class KeybindingsMenu extends UIScriptedMenu
■protected TabberUI■■■■■■m_Tabber;
■protected ref DropdownPrefab
■■■■■ KBDropdown; //DEPRECATED
■protected ref OptionSelectorMultistate■■m_PresetSelector:
■protected ref KeybindingsContainer ■■■m_GroupsContainer;
■protected ref array<ref KeybindingsGroup>■m_Tabs; //DEPRECATED
■protected TextWidget■■■■■m_Version;
□ protected ButtonWidget■■■■■ m_Apply;
■protected ButtonWidget■■■■■m_Back;
■protected ButtonWidget■■■■■m_Undo;
■protected ButtonWidget■■■■■m_Defaults;
■protected ButtonWidget■■■■■m_HardReset;
■protected int■■■■■■■■ CurrentSettingKeyIndex = -1;
■protected int■■■■■■■■ CurrentSettingAlternateKeyIndex = -1;
■protected int■■■■■■■m_OriginalPresetIndex;
■protected int■■■■■■■■ TargetPresetIndex;
■protected ref array<int>■■■■■m_SetKeybinds;
■const int MODAL_ID_BACK = 1337;
■const int MODAL_ID_DEFAULT = 100;
■const int MODAL_ID_DEFAULT_ALL = 101;
■const int MODAL_ID_PRESET_CHANGE = 200;
■const int MODAL_RESULT_DEFAULT_CURRENT = 0;
■const int MODAL_RESULT_DEFAULT_ALL = 1;
■override Widget Init()
■■Input input = GetGame().GetInput();
■■layoutRoot■■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/options/pc/keybinding)
■■m_Version■■■= TextWidget.Cast(layoutRoot.FindAnyWidget("version"));
■■m_Apply■■■= ButtonWidget.Cast(layoutRoot.FindAnyWidget("apply"));
■■m_Back■■■= ButtonWidget.Cast(layoutRoot.FindAnyWidget("back"));
■■m_Undo■■■■= ButtonWidget.Cast(layoutRoot.FindAnyWidget("undo"));
■■m_Defaults■■= ButtonWidget.Cast(layoutRoot.FindAnyWidget("reset"));
■■m_HardReset■■■= ButtonWidget.Cast(layoutRoot.FindAnyWidget("reset_all"));
■■layoutRoot.FindAnyWidget("Tabber").GetScript(m_Tabber);
■string version;
■■GetGame().GetVersion(version);
■■#ifdef PLATFORM_CONSOLE
■■■version = "#main_menu_version" + " " + version + " (" + g_Game.GetDatabaseID() + ")";
■#else
wersion = "#main_menu_version" + " " + version;
■#endif
■■m_Version.SetText(version);
■■#ifdef PLATFORM_PS4
■■string back = "circle";
■■■if (GetGame().GetInput().GetEnterButton() == GamepadButton.A)
■■■■back = "circle";
```

```
// ----- KeysToUIElements.c - START ------
// Keep this Object up-to-date with KeyCodes Enum in EnSystem.c
// KeysToUIElements is mapping of KeyCodes to its literal name or icon from ImageSet
// that will be displayed in floating widget for Default Actions - aka Action Target Selection
typedef Param2<string, bool> KeyToUIElement;
class KeysToUIElements
■static private ref map<int, ref KeyToUIElement> m_KeysToUIElements;
■static private void■RegisterKeyToUIElement(int key_code, string name, bool is_image_set)
■■if ( m_KeysToUIElements == NULL )
MEMORE TOURS = new map<int, ref KeyToUIElement>;
}
■■if ( m_KeysToUIElements.Contains(key_code) )
■■■Debug.Log("Template ID: "+string.ToString(key_code)+" is alredy exist!", "KeysToUIElements -> Onl
■■else
{
EXAMPLE 1 KeyToUIElement params = new KeyToUIElement(name, is_image_set);
■■■m_KeysToUIElements.Set(key_code, params);
|
■static KeyToUIElement GetKeyToUIElement(int key_code)
■■if ( m_KeysToUIElements && m_KeysToUIElements.Contains(key_code) )
■■return m_KeysToUIElements.Get(key_code);
| | |
■■Debug.Log("Template ID: "+string.ToString(key_code)+" does not exist!", "KeysToUIElements -> GetK
■■return NULL;
■}
■static void Init()
■■//■■■■■ | KeyCode■■■■■ | Name■■■■■■■■ | is_image_set //
■■RegisterKeyToUlElement( KeyCode.KC_ESCAPE■■, "ESC"■■■■■■■■■■, false■■■);
■ RegisterKeyToUlElement( KeyCode.KC_1 ■ ■ , "1" ■ ■ ■ ■ ■ , false ■ ■ ); ■ RegisterKeyToUlElement( KeyCode.KC_2 ■ ■ , "2" ■ ■ ■ ■ ■ , false ■ ■ );
■■RegisterKeyToUlElement( KeyCode.KC_3■■■, "3"■■■■■■■■, false■■■)
■■RegisterKeyToUlElement( KeyCode.KC_4■■■, "4"■■■■■■■■■■■■■, false■■■
RegisterKeyToUlElement( KeyCode.KC_5
■■RegisterKeyToUlElement( KeyCode.KC_7■■■, "7"I
■■RegisterKeyToUIElement( KeyCode.KC_8■■■, "8"■■■■■■■■■, falsel
■■RegisterKeyToUlElement(`KeyCode.KC_9■■■,
                                            "9"■■■■■■■, false■■
■■RegisterKeyToUIElement( KeyCode.KC_0■■■, "0"■■■■■■■■■, false■■■)
```

■RegisterKeyTol IIFlement/ KeyCode KC MINI IS■■

```
// ----- KillerData.c - START ------
class KillerData
■EntityAl ■m_Killer;
■EntityAl ■m_MurderWeapon; //can be fists, so no ItemBase possible
■bool ■■m_KillerHiTheBrain;
// ----- KillerData.c - END -----
// ----- KitBase.c - START ------
class KitBase extends ItemBase
■ref protected EffectSound ■■m_DeployLoopSound;
■protected bool ■■■■■m_DeployedRegularly;
■void KitBase()
■{
■■RegisterNetSyncVariableBool("m_IsSoundSynchRemote");
■■RegisterNetSyncVariableBool("m_IsDeploySound");
■}
■void ~KitBase()
■■SEffectManager.DestroyEffect( m_DeployLoopSound );
■override bool IsBasebuildingKit()
■return true;
■override bool HasProxyParts()
■ return true;
■override void OnVariablesSynchronized()
■■super.OnVariablesSynchronized();
■■if (IsDeploySound())
■■PlayDeploySound();
■■if ( CanPlayDeployLoopSound() )
■■PlayDeployLoopSound();
```

```
// ----- KitchenKnife.c - START -----
class KitchenKnife extends ToolBase
■override bool IsMeleeFinisher()
■ return true;
■override array<int> GetValidFinishers()
■■return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionBurnSewTarget);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionSkinning);
■■AddAction(ActionMineBush);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionBurnSewSelf);
■■AddAction(ActionDigWorms);
■■AddAction(ActionShaveTarget);
■■AddAction(ActionDisarmMine);
■■AddAction(ActionDisarmExplosive);
■■AddAction(ActionShave);
|
// ----- KitchenKnife.c - END -----
// ----- KitchenTimer.c - START -----
class KitchenTimer: ClockBase
■const string■■RINGING_SOUND ■■■■= "KitchenTimer_Ring_Loop_SoundSet";
■const string■■DESTROYED_SOUND ■■■= "AlarmClock_Destroyed_SoundSet";
■const string■■HIT SOUND ■■■■■= "AlarmClock Hit SoundSet":
■const string■■WORKING_SOUND■■■■= "KitchenTimer_Ticking_Loop_SoundSet";
■EffectSound ■■m_RingingStopSound;
■static ref NoiseParams ■m_NoisePar;
■static NoiseSystem■■m_NoiseSystem;
■int ■■■■m_AlarmInSecs;
override void Init()
■■super.Init();
```

```
// ----- Kiwi.c - START -----
class Kiwi: Edible_Base
■override bool CanBeCooked()
■ return false;
■override bool CanBeCookedOnStick()
■ return false;
■override bool IsFruit()
■ return true;
■override bool CanDecay()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatFruit);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
■}
// -----
// ----- Kiwi.c - END ------//
// -----
// ----- KnifeHolster.c - START ------
class KnifeHolster: Clothing {};
// ----- KnifeHolster.c - END -----
```

```
....// ----- KukriKnife.c - START ------
class KukriKnife extends ToolBase
■override bool IsMeleeFinisher()
■ return true;
■override array<int> GetValidFinishers()
■ return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionBurnSewTarget);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionSkinning);
■■AddAction(ActionMineBush);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionBurnSewSelf);
■■AddAction(ActionDigWorms);
■■AddAction(ActionShaveTarget);
■■AddAction(ActionShave);
|
// ----- KukriKnife.c - END ------
// -----
// -----
// ----- KuruShake.c - START ------
class KuruShake
mconst float RANDOM_RANGE_POINT = 1;
■const float RANDOM_RANGE_DEVIATION = 0.50;
■const float SHAKE_DURATION_PHASE1 = 0.01;
■const float SHAKE_STRENGTH_MIN = 1;
■const float SHAKE_STRENGTH_MAX = 5;
■PlayerBase m_Player;
■float m_Time;
■float m Time2;
■float m_RelativeTime;
■float m_RelativeTime2;
■float m_ShakeStrength;
■ref array<vector> m_Curve = new array<vector>;
```

void KuruShake(PlayerBase player_float amount)

```
// ----- LabCoat.c - START ------
class LabCoat extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- LabCoat.c - END -----
// -----
// ----- LactariusMushroom.c - START ------
class LactariusMushroom: MushroomBase
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
|
// ----- LactariusMushroom.c - END -----
// -----
// ----- LandmineExplosion.c - START -------//
class LandmineExplosion: EffectParticle
■void LandmineExplosion()
■■SetParticleID(ParticleList.EXPLOSION_LANDMINE);
// ----- LandmineExplosion.c - END ------
```

```
// ----- Land_Airfield_Small_Control.c - START ------
class Land_Airfield_Small_Control extends BuildingWithFireplace
// ----- Land_Airfield_Small_Control.c - END ------
// ----- Land_FuelStation_Feed.c - START -----
class Land_FuelStation_Feed extends FuelStation
■override void EEKilled(Object killer)
■super.EEKilled(killer);
■ Explode(DT_EXPLOSION, "LandFuelFeed_Ammo");
■override void OnExplosionEffects(Object source, Object directHit, int componentIndex, string surface, ve
■■if (!GetGame().IsDedicatedServer())
■■■vector n = surfNormal.VectorToAngles() + "0 90 0";
Particle p1 = ParticleManager.GetInstance().PlayInWorld(ParticleList.SMOKE_GENERIC_WRECK, p
■■p1.SetOrientation(n);
■■■Particle p2 = ParticleManager.GetInstance().PlayInWorld(ParticleList.EXPLOSION_LANDMINE, pos)
■■p2.SetOrientation(n);
■■■Particle p3 = ParticleManager.GetInstance().PlayInWorld(ParticleList.IMPACT_METAL_RICOCHET,
■■p3.SetOrientation(n);
■■■Particle p4 = ParticleManager.GetInstance().PlayInWorld(ParticleList.IMPACT_GRAVEL_RICOCHET
■■p4.SetOrientation(n);
| |
|
■//! Returns true if this stand is functional
■bool HasFuelToGive()
■■return !IsRuined();
};
// ----- Land_FuelStation_Feed.c - END ------
```

```
// ----- Land_House_1B01_Pub.c - START ------
class Land_House_1B01_Pub extends BuildingWithFireplace
// ----- Land_House_1B01_Pub.c - END ------
// ----- Land_House_1W01.c - START ------
class Land_House_1W01 extends BuildingWithFireplace
// -----
// ----- Land_House_1W01.c - END -----
// ----- Land_House_1W02.c - START ------
class Land_House_1W02 extends BuildingWithFireplace
// ----- Land_House_1W02.c - END ------
// ----- Land_House_1W03.c - START -----
// -----
class Land_House_1W03 extends BuildingWithFireplace
// ----- Land_House_1W03.c - END ------
```

```
// ----- Land_House_1W04.c - START ------
class Land_House_1W04 extends BuildingWithFireplace
// ----- Land_House_1W04.c - END -----
// -----
// ----- Land_House_1W05.c - START -----
class Land_House_1W05 extends BuildingWithFireplace
// -----
// ----- Land_House_1W05.c - END -----
// ----- Land_House_1W06.c - START -----
class Land_House_1W06 extends BuildingWithFireplace
// ----- Land_House_1W06.c - END ------
// ----- Land_House_1W08.c - START -----
// -----
class Land_House_1W08 extends BuildingWithFireplace
// -----
// ----- Land_House_1W08.c - END -----
```

```
// ----- Land_House_1W09.c - START -----
class Land_House_1W09 extends BuildingWithFireplace
// -----
// ----- Land_House_1W09.c - END ------
// ----- Land_House_1W10.c - START -----
class Land_House_1W10 extends BuildingWithFireplace
// -----
// ----- Land_House_1W10.c - END ------
// -----
// ----- Land_House_1W11.c - START ------
// -----
class Land_House_1W11 extends BuildingWithFireplace
// -----
// ----- Land_House_1W11.c - END ------
// -----
// ----- Land_House_1W12.c - START ------
// -----
class Land_House_1W12 extends BuildingWithFireplace
// -----
// ----- Land_House_1W12.c - END ------
```

```
// ----- Land_House_2B01.c - START ------
class Land_House_2B01 extends BuildingWithFireplace
// ----- Land_House_2B01.c - END -----
// -----
// ----- Land_House_2W01.c - START -----
class Land_House_2W01 extends BuildingWithFireplace
// -----
// ----- Land_House_2W01.c - END -----
// ----- Land_House_2W02.c - START ------
class Land_House_2W02 extends BuildingWithFireplace
// ----- Land_House_2W02.c - END ------
// ----- Land_Lamp_City1_amp.c - START ------
class Land_Lamp_City1_amp extends PASReceiver
// ----- Land_Lamp_City1_amp.c - END ------
```

```
// ----- Land_Misc_Greenhouse.c - START ------
class Land_Misc_Greenhouse extends BuildingSuper
■void Land_Misc_Greenhouse()
class Land_Misc_Polytunnel extends BuildingSuper
■void Land_Misc_Polytunnel()
// ----- Land_Misc_Greenhouse.c - END ------
// ----- Land_Misc_Through_Static.c - START ------
class Land_Misc_Through_Static : Well {}
// ----- Land_Misc_Through_Static.c - END ------
// ----- Land_Misc_Well_Pump_Blue.c - START ------
class Land_Misc_Well_Pump_Blue extends Well
// ----- Land_Misc_Well_Pump_Blue.c - END ------
// -----
// ----- Land_Misc_Well_Pump_Yellow.c - START ------
class Land_Misc_Well_Pump_Yellow extends Well
```

```
// ----- Land_Power_Pole_Conc1_Amp.c - START ------
class Land_Power_Pole_Conc1_Amp extends PASReceiver
// -----
// ----- Land_Power_Pole_Conc1_Amp.c - END ------
// ----- Land_Power_Pole_Conc4_Lamp_Amp.c - START ------
class Land_Power_Pole_Conc4_Lamp_Amp extends PASReceiver
// ----- Land_Power_Pole_Conc4_Lamp_Amp.c - END ------
// ----- Land_Power_Pole_Wood1_Amp.c - START ------
class Land_Power_Pole_Wood1_Amp extends PASReceiver
// ----- Land_Power_Pole_Wood1_Amp.c - END ------
// ----- Land_Power_Pole_Wood1_Lamp_Amp.c - START ------
class Land_Power_Pole_Wood1_Lamp_Amp extends PASReceiver
// ----- Land_Power_Pole_Wood1_Lamp_Amp.c - END ------
```

```
----- Land_Radio_PanelBig.c - START ------
class Land_Radio_PanelBig extends StaticTransmitter
■override bool DisableVicinityIcon()
■ return true;
■}
■// --- SYSTEM EVENTS
■override void OnStoreSave( ParamsWriteContext ctx )
■■super.OnStoreSave(ctx);
■■//store tuned frequency
■■ctx.Write( GetTunedFrequencyIndex() );
■override bool OnStoreLoad( ParamsReadContext ctx, int version )
■■if (!super.OnStoreLoad(ctx, version))
■■return false;
■■//--- Panel Radio data ---
■■//load and set tuned frequency
■■int tuned_frequency_idx;
■■if (!ctx.Read( tuned_frequency_idx ) )
■■tuned_frequency_idx = 0;■■//set default
■■SetFrequencyByIndex( tuned_frequency_idx );
---/
■ return true;
■//--- BASE
■override bool IsStaticTransmitter()
■ return true;
■}
■void SetNextFrequency( PlayerBase player = NULL )
■■SetNextChannel();
-/*
■if (player)
■■■DisplayRadioInfo( GetTunedFrequency().ToString(), player );
■■}
*/
■}
■//--- POWER EVENTS
■override void OnSwitchOn()
■■if (!GetCompEM().CanWork())
```

■■GetCompEM() SwitchOff():

```
class Land_Radio_PanelPAS extends PASBroadcaster
■//Sounds
■const string SOUND_PAS_TURN_ON ■■■= "pastransmitter_turnon_SoundSet";
■const string SOUND_PAS_TURN_OFF ■■= "pastransmitter_turnoff_SoundSet";
■const string SOUND_PAS_TURNED_ON ■■= "pastransmitter_stationoise_SoundSet";
■protected EffectSound m_Sound;
■protected EffectSound m_SoundLoop;
■//--- BASE
■override bool IsStaticTransmitter()
Teturn true;
■}
■override bool DisableVicinityIcon()
■ return true;
■}
■//--- POWER EVENTS
■override void OnSwitchOn()
■■super.OnSwitchOn();
■■if (!GetCompEM().CanWork())
■■GetCompEM().SwitchOff();
■■//sound
■■SoundTurnOn();
■override void OnSwitchOff()
■ super.OnSwitchOff();
■■//sound
■■SoundTurnOff();
■override void OnWorkStart()
■■super.OnWorkStart();
■■//turn off device
■■SwitchOn (true); // start send/receive voice
■■//sound
■■SoundTurnedOnNoiseStart();
■override void OnWorkStop()
```

■ super.OnWorkStop();

```
....// ----- Land_Underground_Entrance.c - START -------
enum EUndegroundEntranceState
■UNINITIALIZED,
■CLOSED,//fully closed
■//opening
■OPENING A.
■OPENING_B,
■OPENING_C,
■OPENING_D,
■OPENING_E,//fully open
■OPENING_F,
■OPENING_G,
■//closing
■CLOSING_A,
■CLOSING_B,
■CLOSING_C,
■CLOSING D.
■CLOSING_E,
■CLOSING_F,
■CLOSING_G
enum EUndegroundDoorType
■MAIN,
■SMALL.
class AlarmLight: SpotlightLight
■void AlarmLight()
■■SetVisibleDuringDaylight(true);
■■SetRadiusTo(15);
■■SetBrightnessTo(10);
■■SetFlareVisible(false);
■SetAmbientColor(1.0, 0.0, 0.0);
■■SetDiffuseColor(1.0, 0.0, 0.0);
■■SetLifetime(1000);
■■SetDisableShadowsWithinRadius(-1);
■■SetFadeOutTime(1);
■■SetCastShadow(false);
■■m_FadeInTime = 0.25;
■}
}
class Land_Underground_EntranceBase: House
■EUndegroundEntranceState m_DoorState ■■= EUndegroundEntranceState.CLOSED;
■EUndegroundEntranceState m_DoorStatePrev ■= EUndegroundEntranceState.UNINITIALIZED;
■ref Timer■■■■■■■■ NavmeshTimer:
```

■ref array<I and I Inderground Panel> ■■m ConnectedPanels:

```
enum ELEDState
■OFF,
■BLINKING,
■ON,
enum ELEDColors
■RED
■GREEN.
class Land_Underground_Panel: House
■static ref set<Land_Underground_EntranceBase> ■■m_Entrances;
■static ref set<Land Underground Panel>■■■■ Panels:
■Land_Underground_EntranceBase m_LinkedDoor;
\blacksquareconst string COLOR_LED_OFF \blacksquare= "#(argb,8,8,3)color(0,0,0,1.0,co)";
■const string COLOR_LED_GREEN■= "#(argb,8,8,3)color(0,1,0,1.0,co)";
■const string COLOR_LED_RED ■■= "#(argb,8,8,3)color(1,0,0,1.0,co)";
■const string SELECTION_NAME_LED_RED■■= "LED_Red";
■const string SELECTION_NAME_LED_GREEN■= "LED_Green";
■bool m PanelWasUsed
■bool m_PanelWasUsedPrev;
■bool m_BlinkingFlipFlop;
■ref Timer m_FlipFlopTimer;
■EffectSound ■■m_ActivationSound;
■ELEDState m LedStateRed;
■ELEDState m_LedStateGreen;
■void Land_Underground_Panel()
■■RegisterNetSyncVariableBool("m_PanelWasUsed");
■■RegisterPanel(this);
■■SetLEDState(ELEDColors.RED, ELEDState.ON);
■■SetLEDState(ELEDColors.GREEN, ELEDState.OFF);
■void ~Land_Underground_Panel()
■■UnregisterPanel(this);
■bool CanInteract()
■■Land_Underground_EntranceBase door = GetLinkedDoor();
■if (door)
■■■return Land_Underground_EntranceBase.Cast(door).CanManipulate();
```

■return false:

```
class Land_Underground_Panel_Lever: Land_Underground_Panel
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionUseUndergroundLever);
■void ResetPhase(EntityAl target)
■target.SetAnimationPhaseNow("PanelLever", 0);
■override void OnPanelUsedSynchronized()
■■super.OnPanelUsedSynchronized();
■■SetAnimationPhase("PanelLever", 1);
■■GetGame().GetCallQueue(CALL_CATEGORY_SYSTEM).CallLater(ResetPhase, 3000, false, this);
■■OnLEDStateChanged();
■override void Interact()
■■super.Interact();
■■GetGame().RegisterNetworkStaticObject(this);
■■GetGame().RegisterNetworkStaticObject(GetLinkedDoor());
// ----- Land_Underground_Panel_Lever.c - END ------
// ----- Land_Underground_Stairs_Exit.c - START ------
class Land_Underground_Stairs_Exit: Land_Underground_EntranceBase
■EffectSound ■■m_LockingSound;
■EffectSound ■■m_OpenSoundIn;
■//EffectSound ■■m_OpenSoundLoop;
■EffectSound ■■m_OpenSoundOut;
■EffectSound ■■m_CloseSoundIn;
■EffectSound ■■m_CloseSoundLoop;
■EffectSound ■■m_CloseSoundOut;
■const string LOCKING_SOUNDSET ■■■= "UndergroundDoor_Lock_SoundSet";
■const string OPENING_SOUNDSET_LOOP_IN ■= "UndergroundSmallExitDoor_Open_Start_SoundSet";
■const string OPENING_SOUNDSET_LOOP ■■= "UndergroundSmallExitDoor_Open_Loop_SoundSet";
■const string OPENING_SOUNDSET_LOOP_OUT ■= "UndergroundSmallExitDoor_Open_End_SoundS
```

```
// ----- Land_Underground_WaterReservoir.c - START ------
class WaterLevelSettings
■int WaterLevel;
■float Duration;
■void WaterLevelSettings(int pWaterLevel, float pDuration)
■■WaterLevel ■= pWaterLevel;
■■Duration■= pDuration;
■}
class PressureLevelSettings
■int PressureLevel;
■float Duration;
■void PressureLevelSettings(int pPressureLevel, float pDuration)
■■PressureLevel ■= pPressureLevel;
■■Duration■■= pDuration;
■}
class WaterLevelSnapshot
■float WaterHeight;
■float RemainingDuration;
class Land_Underground_WaterReservoir : BuildingBase
■protected const string OBJECT_NAME_WATER_PLANE ■■■■= "Land_Underground_WaterReservoir"
■protected const int WL_MIN ■■■■■■■= 0;
■protected const int WL_ABOVE_PIPES■■■■■■= 1;
protected const int WL_AVERAGE ■■■■■■= 2;
■protected const int WL_MAX ■■■■■■■= 3;
■protected const int PL_MIN ■■■■■■■■= 0;
■protected const int PL_AVERAGE ■■■■■■■= 1;
■protected const int PL_MAX ■■■■■■■= 2;
■protected const int VALVES_COUNT■■■■■= 2;
■protected const int VALVE_INDEX_DRAIN ■■■■■= 0;
■protected const int VALVE_INDEX_FILL ■■■■■■ 1;
■protected const int PIPES_BROKEN_COUNT■■■■■= 2;
■protected const int PIPE_INDEX_BROKEN1■■■■■= 0;■//! main broken pipe
■ protected const int PIPE_INDEX_BROKEN2■■■■■= 1; ■//! tighter broken pipe
■ protected const string ANIM_PHASE_VALVE_GAUGE_DRAIN ■ ■ = "ValveGauge1"; ■ protected const string ANIM_PHASE_VALVE_GAUGE_FILL ■ ■ ■ = "ValveGauge2";
■protected const string ANIM_PHASE_VALVE_DRAIN ■■■■= "Valve1";
```

inrotected const string PIPE NAME_RROKEN1

```
// ----- Land_Village_Pub.c - START ------
class Land_Village_Pub extends BuildingWithFireplace
// ----- Land_Village_Pub.c - END ------//
// ----- Lard.c - START -----
// -----
class Lard extends Edible_Base
■override bool CanBeCooked()
■return true;
■override bool CanBeCookedOnStick()
■ return true;
■override bool IsMeat()
■ return true;
■override bool CanDecay()
■ return true;
■}
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatMeat);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
\blacksquare
// -----
// ----- Lard.c - END -----
```

```
// ----- LargeGasCannister.c - START ------
class LargeGasCannister extends ItemBase
■override bool CanExplodeInFire()
■ return true;
// ----- LargeGasCannister.c - END -----
// ----- LargeTent.c - START -----
enum SoundTypeTent
 REPACK■■= 1,
■NONE■■= 0,■
class LargeTent extends TentBase
■ref protected EffectSound ■m_RepackingLoopSound;
■void LargeTent()
ToggleAnimations.Insert( new ToggleAnimations("EntranceO", "EntranceC", OPENING_0), 0);

"m_ToggleAnimations.Insert( new ToggleAnimations("Window1O", "Window1C", OPENING_1), 0);

"m_ToggleAnimations.Insert( new ToggleAnimations("Window2O", "Window2C", OPENING_2), 0);

"m_ToggleAnimations.Insert( new ToggleAnimations("Window3O", "Window3C", OPENING_3), 0);

"m_ToggleAnimations.Insert( new ToggleAnimations("Window4O", "Window4C", OPENING_4), 0);

"m_ToggleAnimations.Insert( new ToggleAnimations("Window5O", "Window5C", OPENING_5), 0);

"m_ToggleAnimations.Insert( new ToggleAnimations("Window6O", "Window6C", OPENING_6), 0);

"m_ToggleAnimations.Insert( new ToggleAnimations("Window7O", "Window7C", OPENING_7), 0);
■■m_ShowAnimationsWhenPitched.Insert( "Body" );
■■/*m_ShowAnimationsWhenPitched.Insert( "EntranceO" );
■■m_ShowAnimationsWhenPitched.Insert( "Window10"
m_ShowAnimationsWhenPitched.Insert( "Window2O"
■■m_ShowAnimationsWhenPitched.Insert( "Window3O"
■■m ShowAnimationsWhenPitched.Insert( "Window40"
■■m_ShowAnimationsWhenPitched.Insert( "Window5O"
                                                              "Window6O"
■■m_ShowAnimationsWhenPitched.Insert()
■ m_ShowAnimationsWhenPitched.Insert( "Window70");*/
■■m_ShowAnimationsWhenPitched.Insert( "Pack" );
 ==m_ShowAnimationsWhenPacked.Insert( "Inventory" );
\blacksquarem_HalfExtents = Vector(2.2, 0.3, 1.9);
■void ~LargeTent()
```

```
---- LargeTentBackPack.c - START ------
class LargeTentBackPack extends Clothing
■ref protected EffectSound ■m_RepackingLoopSound;
■void LargeTentBackPack()
■m_RepackingLoopSound = new EffectSound;
■void ~LargeTentBackPack()
■■SEffectManager.DestroyEffect( m_RepackingLoopSound );■
■override void OnRPC(PlayerIdentity sender, int rpc_type,ParamsReadContext_ctx)
■■super.OnRPC(sender, rpc_type, ctx);
■■Param1<bool> p = new Param1<bool>(false);
■■if (!ctx.Read(p))
■■return;
■■bool play = p.param1;
■■switch (rpc_type)
■■ case SoundTypeTent.REPACK:
IIIIIif ( play )
  ■■■PlayRepackingLoopSound();
 ■■else
■■■■StopRepackingLoopSound();
■■■break;
■■}
■void PlayRepackingLoopSound()
■■if (!m_RepackingLoopSound||!m_RepackingLoopSound.lsSoundPlaying())
■■■m_RepackingLoopSound = SEffectManager.PlaySound( "largetent_deploy_SoundSet", GetPosition()
■void StopRepackingLoopSound()
m_RepackingLoopSound.SetSoundFadeOut(0.5);
■■m_RepackingLoopSound.SoundStop();
```

■override void SetActions()

```
// ----- LaughterState.c - START ------
class LaughterSymptom extends SymptomBase
■//this is just for the Symptom parameters set-up and is called even if the Symptom doesn't execute, don't
■override void OnInit()
■ Market Mar
\blacksquare m_Priority = 0;
■■m_ID = SymptomIDs.SYMPTOM_LAUGHTER;
■■m_DestroyOnAnimFinish = true;
■■m_SyncToClient = false:
\blacksquare \blacksquare m_Duration = 4;
■//!gets called every frame
■override void OnUpdateServer(PlayerBase player, float deltatime)
■}
■override void OnUpdateClient(PlayerBase player, float deltatime)
\blacksquareint i = 1 + 1;
■//!gets called once on an Symptom which is being activated
■override void OnGetActivatedServer(PlayerBase player)
■■if (LogManager.IsSymptomLogEnable()) Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetActivation of the companion of 
■■PlaySound(ĔPlayerSoundEventID.SYMPTOM_LAUGHTER);
■■player.SpreadAgentsEx(3);
■}
■//!gets called once on a Symptom which is being activated
■override void OnGetActivatedClient(PlayerBase player)
■■if (LogManager.IsSymptomLogEnable()) Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetActivation of the company of the
■//!only gets called once on an active Symptom that is being deactivated
■override void OnGetDeactivatedServer(PlayerBase player)
■■if (LogManager.IsSymptomLogEnable()) Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetDeac
■//!only gets called once on an active Symptom that is being deactivated
■override void OnGetDeactivatedClient(PlayerBase player)
■■if (LogManager.IsSymptomLogEnable()) Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetDeac
// ----- LaughterState.c - END ------
```

```
// ----- LayoutHolder.c - START ------
class LayoutHolder extends ScriptedWidgetEventHandler
■protected Widget■■■m_MainWidget;
■protected Widget■■■m_RootWidget;
■protected Widget■■■m_ParentWidget;
■protected LayoutHolder■■■m_Parent;
protected string■■■m_LayoutName;
■protected bool■■■■■m_lsActive;
■protected bool■■■■■m_ImmedUpdate;
■protected bool■■■■■m_TooltipOwner;
■protected EntityAl■■■■m_am_entity1, m_am_entity2;
■void UpdateInterval();
■void SetLayoutName();
■// Override this and set m_ImmedUpdate to true if you need the widget to update on construction
■// Had to be done this way since adding it to the constructor parameters would break mods...
■void SetImmedUpdate()
■m_ImmedUpdate = false;
■void OnSelectAction(ItemBase item, int actionId)
■PlayerBase m_player = PlayerBase.Cast( GetGame().GetPlayer() );
■■m_player.GetActionManager().OnInstantAction(ActionDebug,new Param2<ItemBase,int>(item,actionIc
■}
■void ShowActionMenu(InventoryItem item)
■PlayerBase m_player = PlayerBase.Cast( GetGame().GetPlayer() );
■■HideOwnedTooltip():
■■m_am_entity1 = item;
\blacksquare \blacksquare m_am_entity2 = null;
■■ContextMenu cmenu = GetGame().GetUlManager().GetMenu().GetContextMenu();
■■cmenu.Hide();
■■cmenu.Clear();
■■if (m_am_entity1 == null)
■■return;
■■TSelectableActionInfoArrayEx customActions = new TSelectableActionInfoArrayEx();
■■ItemBase itemBase = ItemBase.Cast(item):
■■itemBase.GetDebugActions(customActions);
■■if (ItemBase.GetDebugActionsMask() & DebugActionType.PLAYER_AGENTS)
■■m_player.GetDebugActions(customActions);
| | |
■■int actionsCount = customActions.Count();
\blacksquare for (int i = 0; i < customActions.Count(); i++)
■■■TSelectableActionInfoWithColor actionInfo = TSelectableActionInfoWithColor.Cast(customActions.Ge
```

■■if (actionInfo)

```
// ----- LeatherBelt_ColorBase.c - START ------
class LeatherBelt_ColorBase extends Clothing
■override bool CanPutInCargo(EntityAl parent)
■■if(!super.CanPutInCargo(parent))
■■return false;
■■}
■■return IsEmpty();
■override bool CanReceiveAttachment( EntityAl attachment,int slotId )
■■if(!super.CanReceiveAttachment( attachment, slotId ) )
■■return false:
■■return !GetInventory().IsInCargo();
class LeatherBelt_Beige extends LeatherBelt_ColorBase {};
class LeatherBelt_Natural extends LeatherBelt_ColorBase {};
class LeatherBelt_Brown extends LeatherBelt_ColorBase {};
class LeatherBelt_Black extends LeatherBelt_ColorBase {};
// ----- LeatherBelt_ColorBase.c - END ------
// ----- LeatherGloves_ColorBase.c - START ------
class LeatherGloves_ColorBase extends Clothing {};
class LeatherGloves_Natural extends LeatherGloves_ColorBase {};
class LeatherGloves_Beige extends LeatherGloves_ColorBase {};
class LeatherGloves_Black extends LeatherGloves_ColorBase {};
class LeatherGloves_Brown extends LeatherGloves_ColorBase {};
// ----- LeatherGloves_ColorBase.c - END -----
// ----- LeatherHat_ColorBase.c - START -----
// -----
class LeatherHat_ColorBase extends ClothingBase
```

```
// ----- LeatherJacket_ColorBase.c - START ------
class LeatherJacket_ColorBase extends Clothing {};
class LeatherJacket_Natural extends LeatherJacket_ColorBase {};
class LeatherJacket_Beige extends LeatherJacket_ColorBase {};
class LeatherJacket_Brown extends LeatherJacket_ColorBase {};
class LeatherJacket_Black extends LeatherJacket_ColorBase {};
// -----
// ----- LeatherJacket_ColorBase.c - END ------//
// -----
// ----- LeatherJacket_Natural.c - START ------
// -----
class LeatherJacket_Natural extends Clothing
// ----- LeatherJacket_Natural.c - END ------
// ----- LeatherMoccasinsShoes_Natural.c - START ------
// -----
class LeatherMoccasinsShoes_Natural: Clothing
■override bool IsClothing()
■ return true:
■}
// ----- LeatherMoccasinsShoes_Natural.c - END ------//
// ----- LeatherPants_ColorBase.c - START -----
class LeatherPants_ColorBase extends Clothing {};
class LeatherPants_Natural extends LeatherPants_ColorBase {};
class LeatherPants_Beige extends LeatherPants_ColorBase {};
```

class LeatherPants Brown extends LeatherPants ColorBase

```
// ----- LeatherPants_Natural.c - START ------
class LeatherPants_Natural: Clothing
■override bool IsClothing()
■ return true;
/// ----- LeatherPants_Natural.c - END ------
// ----- LeatherSack_ColorBase.c - START -----
class LeatherSack_ColorBase extends Clothing
■override bool IsClothing()
■ return true;
};
class LeatherSack_Natural extends LeatherSack_ColorBase {};
class LeatherSack_Black extends LeatherSack_ColorBase {};
class LeatherSack_Beige extends LeatherSack_ColorBase ();
class LeatherSack_Brown extends LeatherSack_ColorBase {};
// ----- LeatherSack_ColorBase.c - END ------
// -----
// ----- LeatherSack_Natural.c - START ------
class LeatherSack_Natural: Clothing
■override bool IsClothing()
■ return true;
```

```
// ----- LeatherSewingKit.c - START ------
class LeatherSewingKit: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionRepairShelter);
};
// ----- LeatherSewingKit.c - END -----
// -----
// ----- LeatherShirt_ColorBase.c - START -----
class LeatherShirt_ColorBase extends Clothing {};
class LeatherShirt_Natural extends LeatherShirt_ColorBase {};
// ----- LeatherShirt_ColorBase.c - END ------
// -----
// ----- LeatherShoes_ColorBase.c - START ------
class LeatherShoes_ColorBase extends Clothing {};
class LeatherShoes_Black extends LeatherShoes_ColorBase {};
class LeatherShoes_Natural extends LeatherShoes_ColorBase {};
class LeatherShoes_Brown extends LeatherShoes_ColorBase {};
class LeatherShoes_Beige extends LeatherShoes_ColorBase {};
// -----
// ----- LeatherShoes_ColorBase.c - END ------
// ----- LeatherStorageVest_ColorBase.c - START ------
class LeatherStorageVest_ColorBase extends Clothing {};
class LeatherStorageVest_Natural extends LeatherStorageVest_ColorBase {};
class LeatherStorageVest_Beige extends LeatherStorageVest_ColorBase {};
class LeatherStorageVest_Brown extends LeatherStorageVest_ColorBase {};
class LeatherStorageVest_Black extends LeatherStorageVest_ColorBase {};
```

```
....// ----- LeatherStorageVest_Natural.c - START ------
class LeatherStorageVest_Natural : Clothing
■override bool IsClothing()
■{
Teturn true;
// ----- LeatherStorageVest_Natural.c - END ------
// ----- LeftArea.c - START -----
class LeftArea: Container
■protected Widget■■■■m_Uplcon;
■protected Widget■■■■m_Downlcon;
■protected Widget■■■■m_ContentParent;
■protected ref VicinityContainer
■m_VicinityContainer;
■protected ScrollWidget■■■m_ScrollWidget;
■protected ref SizeToChild■■■m_ContentResize;
protected bool■■■■■m_ShouldChangeSize = true;
■ protected bool ■ ■ ■ ■ IsProcessing = false; // Prevents refreshing every time a child is added while
■void LeftArea(LayoutHolder parent )
■■m_MainWidget.Show(true, false);
■■m_ContentParent■= m_MainWidget.FindAnyWidget("ContentParent");
■■m_ContentParent.GetScript(m_ContentResize);
■■m_ScrollWidget■= ScrollWidget.Cast(m_MainWidget.FindAnyWidget("Scroller"));
■■m_MainWidget■= m_MainWidget.FindAnyWidget("Content");
■■m_Uplcon■■= m_RootWidget.FindAnyWidget("Up");
■■m_DownIcon■■= m_RootWidget.FindAnyWidget("Down");
■■m_VicinityContainer = new VicinityContainer(this, false);
■■m_Body.Insert(m_VicinityContainer);
\blacksquare \blacksquare m_ActiveIndex = 0;
■■WidgetEventHandler.GetInstance().RegisterOnChildAdd(m_MainWidget, this, "OnChildAdd");
■■WidgetEventHandler.GetInstance().RegisterOnChildRemove(m_MainWidget, this, "OnChildRemove");
■■RecomputeOpenedContainers();
■override void UnfocusGrid()
■■Container active_container;
```

■■for (int i = 0: i < m OpenedContainers Count(): i++)

```
// ----- LegCover_improvised.c - START ------
class LegsCover_Improvised extends Clothing
■override void SetActions()
■{
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
/// ----- LegCover_improvised.c - END ------
// ----- Legs.c - START ------------------------//
class MaleLegs_Base extends InventoryItem {};
class FemaleLegs_Base extends InventoryItem {};
class MaleAdamLegs extends MaleLegs_Base {};
class MaleBorisLegs extends MaleLegs_Base {};
class MaleCyrilLegs extends MaleLegs_Base {};
class MaleDenisLegs extends MaleLegs_Base {};
class MaleEliasLegs extends MaleLegs_Base {};
class MaleFrancisLegs extends MaleLegs_Base {};
class MaleGuoLegs extends MaleLegs_Base {};
class MaleHassanLegs extends MaleLegs_Base {};
class MaleIndarLegs extends MaleLegs_Base {};
class MaleJoseLegs extends MaleLegs_Base {};
class MaleKaitoLegs extends MaleLegs_Base {};
class MaleLewisLegs extends MaleLegs_Base {};
class MaleManuaLegs extends MaleLegs_Base {};
class MaleNikiLegs extends MaleLegs_Base {};
class MaleOliverLegs extends MaleLegs_Base {};
class MalePeterLegs extends MaleLegs_Base {};
class MaleQuinnLegs extends MaleLegs_Base {};
class MaleRolfLegs extends MaleLegs_Base {};
class MaleSethLegs extends MaleLegs_Base {};
class MaleTaikiLegs extends MaleLegs_Base {};
class FemaleEvaLegs extends FemaleLegs_Base {};
class FemaleFridaLegs extends FemaleLegs_Base {};
class FemaleGabiLegs extends FemaleLegs_Base {};
class FemaleHelgaLegs extends FemaleLegs_Base {};
class FemaleIrenaLegs extends FemaleLegs_Base {};
class FemaleJudyLegs extends FemaleLegs_Base {};
class FemaleKeikoLegs extends FemaleLegs_Base {};
class FemaleLindaLegs extends FemaleLegs_Base {};
class FemaleMariaLegs extends FemaleLegs_Base {};
class FemaleNaomiLegs extends FemaleLegs_Base {};
```

// -----

```
...
// ----- LifespanLevel.c - START ------
class LifespanLevel
■protected int m_Level;
■protected float m_Threshold;
■protected string m_TextureName;
protected string m_MaterialName;
■void LifespanLevel(int level, float threshold, string texture_name, string material_name)
■m_Level = level;
■■m_Threshold = threshold;
■■m_TextureName = texture_name;
■■m_MaterialName = material_name;
■int GetLevel()
■ return m_Level;
■float GetThreshold()
■return m_Threshold;
■string GetTextureName()
■ return m_TextureName;
■string GetMaterialName()
■ return m_MaterialName;
// ----- LifespanLevel.c - END ------//
// ----- LightAl.c - START ------//
class Animal extends LightAlSuper
{
};
class Zombie extends LightAlSuper
```

```
class LightAlBase extends LightAl
};
// ----- LightAlBase.c - END ------//
// ----- Liquid.c - START ------
class Liquid
`■static ref map<int, ref NutritionalProfile> m_AllLiquidsByType = new map<int, ref NutritionalProfile>;
■static ref map<string, ref NutritionalProfile> m_AllLiquidsByName = new map<string, ref NutritionalProfile
■static bool m_Init = InitAllLiquids();
■static string GetLiquidClassname(int liquid_type)
■■NutritionalProfile liquid = m_AllLiquidsByType.Get(liquid_type);
■if (liquid)
■■return liquid.GetLiquidClassname();
■■return "";
■static bool InitAllLiquids()
■ string cfg_classname = "cfgLiquidDefinitions"; ■ string property_value = "NULL_PROPERTY";
■■int cfg_item_count = g_Game.ConfigGetChildrenCount(cfg_classname);
\blacksquarefor (int i = 0; i < cfg_item_count; i++)
string liquid_class_name;

GetGame().ConfigGetChildName(cfg_classname, i, liquid_class_name);

string liquid_full_path = string.Format("%1 %2",cfg_classname, liquid_class_name);

int config_liquid_type = GetGame().ConfigGetInt( string.Format("%1 type", liquid_full_path) );
■■■m_AllLiquidsByType.Insert(config_liquid_type, SetUpNutritionalProfile(config_liquid_type, liquid_class
■■■m_AllLiquidsByName.Insert(liquid_class_name, SetUpNutritionalProfile(config_liquid_type, liquid_cla
■ return true;
■}
                 -----
■static void Transfer(ItemBase source_ent, ItemBase target_ent, float quantity = -1)
```

■ if (!Liquid.CanTransfer(source_ent, target_ent)) return;

```
// ----- LoadingMenu.c - START -----
class LoadingMenu extends UIScriptedMenu
■void LoadingMenu()
■void ~LoadingMenu()
■}
■override Widget Init()
■■layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/loading.layout");
■■m_label = TextWidget.Cast( layoutRoot.FindAnyWidget("TextWidget") );
■■m_progressBar = ProgressBarWidget.Cast( layoutRoot.FindAnyWidget("ProgressBarWidget") );
■■m_image = ImageWidget.Cast( layoutRoot.FindAnyWidget("ImageBackground") );
■■m_image.LoadImageFile( 0, GetRandomLoadingBackground() );
■■layoutRoot.FindAnyWidget("notification_root").Show(false);
■■#ifdef PLATFORM_CONSOLE
■■#ifdef PLATFORM_XBOX
■■#ifdef BUILD_EXPERIMENTAL
■■■Widget exp_notifiaction = layoutRoot.FindAnyWidget("notification_root");
■■if (exp_notifiaction)
■■■exp_notifiaction.Show(true);
■#endif
■■#endif
■#endif
■■return layoutRoot;
■TextWidget m_label;
■ProgressBarWidget m_progressBar;
■ImageWidget m_image;
// -----
// ----- LoadingMenu.c - END ------
// -----
// ----- LoadMagazine.c - START -----
class LoadMagazine extends RecipeBase
■override void Init()
```

m Name – "#load_magazine".

```
// ----- Lockpick.c - START -----
class Lockpick: ToolBase
■void Lockpick()
■ m_MineDisarmRate = 90;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionLockDoors);
■■AddAction(ActionUnlockDoors);
AddAction(ActionDisarmMine);
■■AddAction(ActionDisarmExplosive);
■}
};
// -----
// ----- Lockpick.c - END ------//
// ----- LogoutMenu.c - START -----
class LogoutMenu extends UIScriptedMenu
■private TextWidget m_LogoutTimeText;
■private TextWidget m_DescriptionText;
■private ButtonWidget m_bLogoutNow;
■private ButtonWidget m_bCancel;
■private ButtonWidget m_bCancelConsole;
■private int m_iTime;
■void LogoutMenu()
\blacksquare m_iTime = 0;
■g_Game.SetKeyboardHandle(this);
■void ~LogoutMenu()
■■g_Game.SetKeyboardHandle(NULL);
■override Widget Init()
■■layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/day_z_logout_dialog.layout");
■■m_LogoutTimeText ■= TextWidget.Cast(layoutRoot.FindAnyWidget("txtLogoutTime"));
```

■ DescriptionText ■ TextWidget Cast(layoutRoot FindAnyWidget("tytDescription")

```
// ----- LogTemplates.c - START ------
typedef Param3<string, string, string> LogTemplate;
typedef int LogTemplateID;
class LogTemplates
■static private ref map<LogTemplateID, ref LogTemplate> m_LogTemplates;
■static private void■RegisterLogTamplate(LogTemplateID template_id, string author, string plugin, string
■■if ( m_LogTemplates == NULL )
■■■m_LogTemplates■= new map<LogTemplateID, ref LogTemplate>;
| | |
■■if ( m_LogTemplates.Contains(template_id) )
■■■Debug.Log("Template ID: "+string.ToString(template_id)+" is alredy exist!", "LogTemplate.h -> OnInit
else
■■■LogTemplate params = new LogTemplate(author, plugin, label);
■■m_LogTemplates.Set(template_id, params);
| ||
|
■// Steps to register of new log template:
■// 1.) Crete new LogTemplateID in below of this comment.
■// 2.) Set Template Name in format TEMPLATE_[CUSTOM NAME] => TEMPLATE_MY_LOG
\blacksquare// 3.) Set Template ID which is your id + your custom id => + CustomID(0) = 50190
■//■■■ ■■■Template Name■■■■Template ID
■static LogTemplateID■TEMPLATE_UNKNOWN■■■= 0;
■ static LogTemplateID■TEMPLATE_JANOSIK■■ = 1;  
■ static LogTemplateID■TEMPLATE_PLAYER_WEIGHT■ = 2;
■static LogTemplateID■TEMPLATE_BROADCAST■■= 3;
■static void Init()
■■//■■■■■ | Template Name■■■ | author■■■ | plugin■■■■ | label■■■■■////
■■RegisterLogTamplate(■TEMPLATE_UNKNOWN■■,"Unknown"■■■,"Unknown"■■■,"Unknown"■■
■■RegisterLogTamplate(■TEMPLATE_JANOSIK■■,"Janosik"■■■,"GUI"■■■■■,"None"■■■■■);//
■■RegisterLogTamplate(■TEMPLATE_PLAYER_WEIGHT■,"Unknown"■■■,"PlayerBase"■■■,"Weight ■■RegisterLogTamplate(■TEMPLATE_BROADCAST■■,"Unknown"■■■,"PluginMessageManager"■,"E
|
■static LogTemplate GetTemplate(LogTemplateID template_id)
■■if ( m_LogTemplates && m_LogTemplates.Contains(template_id) )
■■■return m_LogTemplates.Get(template_id);
——}
■■Debug.Log("Template ID: "+string.ToString(template_id)+" does not exist!", "LogTemplate.h -> GetTem
■■return NULL:
```

```
// ----- LongHorn.c - START -----
class LongHorn_Base : SingleShotPistol_Base
■override RecoilBase SpawnRecoilObject()
■■return new LongHornRecoil(this);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■■super.OnDebugSpawn();
■■GetInventory().CreateInInventory( "PistolOptic" );
};
class LongHorn : LongHorn_Base {};
// -----
// ----- LongHorn.c - END -----
// -----
// ----- LongHornRecoil.c - START -----
class LongHornRecoil: RecoilBase
■override void Init()
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncMan
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRange().GetRandomInRan
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.125;
■■m_MouseOffsetRangeMin = 70;//in degrees min
■■m_MouseOffsetRangeMax = 110;//in degrees max
■■m_MouseOffsetDistance = 4.0;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.0625; //0.03;//[0..1] a time it takes to move the mouse the required dis
 ■■m_CamOffsetDistance = 0.05;
■■m_CamOffsetRelativeTime = 0.5;
```

```
// ----- LongTorch.c - START -----
class LongTorch: Torch
■void LongTorch()
m_DecraftResult = "LongWoodenStick";
\blacksquarem_ParticleLocalPos = Vector(0, 0.83, 0);
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionClapBearTrapWithThisItem);
};
// ------
// ----- LongTorch.c - END ------------------------//
// ----- LugWrench.c - START ------//
class LugWrench: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionLockAttachment);
};
// ----- LugWrench.c - END ------//
// ----- M16A2.c - START -----
class M16A2_Base : RifleBoltLock_Base
override RecoilBase SpawnRecoilObject()
■ return new M16A2Recoil(this);
■//Debug menu Spawn Ground Special
```

■override void OnDebugSpawn()

```
// ----- M16A2Recoil.c - START ------
class M16A2Recoil: RecoilBase
■override void Init()
■{
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSy
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 1;
■■m_MouseOffsetRangeMin = 50;//in degrees min
■■m_MouseOffsetRangeMax = 120;//in degrees max
■■m_MouseOffsetDistance = 1.0;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.5;//[0..1] a time it takes to move the mouse the required distance rela
■■m_CamOffsetDistance = 0.01;
■■m_CamOffsetRelativeTime = 1;
}
// -----
// ----- M16A2Recoil.c - END -----
// ----- M18SmokeGrenade_ColorBase.c - START ------
class M18SmokeGrenade_ColorBase extends SmokeGrenadeBase
const string SOUND_SMOKE_START = "SmokegGrenades_M18_start_loop_SoundSet";
■const string SOUND_SMOKE_LOOP = "SmokegGrenades_M18_active_loop_SoundSet";
■const string SOUND_SMOKE_END = "SmokegGrenades_M18_end_loop_SoundSet";
■void M18SmokeGrenade_ColorBase()
■■SetAmmoType("");
■■SetFuseDelay(2);
■■SetSoundSmokeStart(SOUND_SMOKE_START);
■■SetSoundSmokeLoop(SOUND_SMOKE_LOOP);
■■SetSoundSmokeEnd(SOUND_SMOKE_END);
|
■void ~M18SmokeGrenade_ColorBase() {}
```

```
// ----- M249.c - START ------
class M249: Weapon_Base
};
// ----- M249.c - END -----
// -----
// ----- M249_Hndgrd.c - START -----
class M249_Hndgrd extends Inventory_Base
■override bool CanDetachAttachment( EntityAl attachment )
■ return false;
// ----- M249_Hndgrd.c - END -----
// ----- M249_RisHndgrd.c - START -----
class M249_RisHndgrd extends Inventory_Base
■override bool CanDetachAttachment( EntityAl attachment )
■■return false;
// ----- M249_RisHndgrd.c - END ------
// -----
// ----- M4A1.c - START -----
// -----
```

class M4A1 Base : RifleBoltLock Base

```
// ----- M4a1Recoil.c - START -----
class M4a1Recoil: RecoilBase
■override void Init()
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncM
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 1;
■■m_MouseOffsetRangeMin = 50;//in degrees min
■■m_MouseOffsetRangeMax = 120;//in degrees max
■■m_MouseOffsetDistance = 1.4;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.5;//[0..1] a time it takes to move the mouse the required distance rela
■■m_CamOffsetDistance = 0.01;
■■m_CamOffsetRelativeTime = 1;
}
// -----
// ----- M4a1Recoil.c - END -----
// ----- M4_CarryHandleOptic.c - START ------
class M4_CarryHandleOptic extends ItemOptics
override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (parent.lsKindOf("M4A1_Base"))
•
■ return true;
——}
■■return false;
// ----- M4_CarryHandleOptic.c - END ------
```

```
// ----- M4_MPHndgrd.c - START -----
class M4_MPHndgrd extends Inventory_Base
■override bool CanDetachAttachment( EntityAl attachment )
■ireturn false;
// ----- M4_MPHndgrd.c - END -----
// ----- M4_PlasticHndgrd.c - START -----
class M4_PlasticHndgrd extends Inventory_Base
■override bool CanDetachAttachment( EntityAl attachment )
■ return false;
// ----- M4_PlasticHndgrd.c - END -----
// ----- M4_RISHndgrd.c - START -----
class M4_RISHndgrd extends Inventory_Base
■override bool CanDetachAttachment (EntityAl parent)
■ if (Weapon_Base.Cast(parent) & parent.FindAttachmentBySlotName("weaponFlashlight"))
■ return false;
■ return true;
// ----- M4_RISHndgrd.c - END -----
```

```
// ----- M4_Suppressor.c - START -----
class M4_Suppressor extends SuppressorBase
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (parent.FindAttachmentBySlotName("suppressorlmpro") == NULL && parent.FindAttachmentBySlotl
■■return true;
==}
■■return false;
// -----
// ----- M4_Suppressor.c - END ------//
// ----- M65Jacket_ColorBase.c - START ------
class M65Jacket_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
|
class M65Jacket_Black extends M65Jacket_ColorBase {}; class M65Jacket_Khaki extends M65Jacket_ColorBase {};
class M65Jacket_Tan extends M65Jacket_ColorBase {};
class M65Jacket_Olive extends M65Jacket_ColorBase {};
// ----- M65Jacket_ColorBase.c - END ------
// ----- M67Grenade.c - START -----
// -----
class M67Grenade extends Grenade_Base
■void M67Grenade()
■■SetAmmoType("M67Grenade_Ammo");
■■SetFuseDelay(4);
■■SetParticleExplosion(ParticleList.M67);
```

■void ~M67Grenade() 八

```
// ----- M79.c - START -----
class M79_Base extends RifleSingleShotManual_Base
■void M79_Base ()
■override bool ShootsExplosiveAmmo()
■ return true;
■override RecoilBase SpawnRecoilObject()
■■return new M79Recoil(this);
};
class M79 extends M79_Base
■override void AssembleGun()
■ super. Assemble Gun();
■■if (!FindAttachmentBySlotName("weaponOpticsAug"))
■■■GetInventory().CreateAttachment("M79DummyOptics");
class M79DummyOptics extends ItemOptics
■override bool CanPutAsAttachment( EntityAl parent )
■return true;
};
// ----- M79.c - END -----
// ----- M79Recoil.c - START -----
class M79Recoil: RecoilBase
■override void Init()
vector point_1;
■■vector point_2;
```

■■vector point 3:

```
// ----- M9A1_Bayonet.c - START ------
class M9A1_Bayonet extends ToolBase
■override bool IsMeleeFinisher()
■ return true;
■override array<int> GetValidFinishers()
■■return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (parent.FindAttachmentBySlotName("suppressorImpro") == null && parent.FindAttachmentBySlotNa
■■return true;
| ||
■■return false;
■override void OnWasAttached(EntityAl parent, int slot_id)
■■super.OnWasAttached(parent, slot_id);
■■if( parent.lsWeapon() )
■■parent.SetBayonetAttached(true,slot_id);
■}
■override void OnWasDetached(EntityAl parent, int slot_id)
■■super.OnWasDetached(parent, slot_id);
■■if( parent.lsWeapon() )
■■■parent.SetBayonetAttached(false);
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionBurnSewTarget);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionSkinning);
■■AddAction(ActionMineBush);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionBurnSewSelf);
■■AddAction(ActionDigWorms);
■■AddAction(ActionShaveTarget);
■■AddAction(ActionDisarmMine); AddAction(ActionDisarmExplosive);
```

■■AddAction(ActionShave);

```
// ----- Mace.c - START ------
class Mace: Inventory_Base {};
// -----
// ----- Mace.c - END -----
// ----- Machete.c - START -----
class Machete extends ToolBase
■void Machete()
■override bool IsMeleeFinisher()
■ return true;
■override array<int> GetValidFinishers()
■ return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override void SetActions()
■isuper.SetActions();
■■AddAction(ActionÚnrestrainTarget);
■■AddAction(ActionBurnSewTarget);
■■AddAction(ActionSkinning);
■■AddAction(ActionMineBush);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionBurnSewSelf);
■■AddAction(ActionDigWorms);
}
// -----
// ----- Machete.c - END ------//
// ----- Mackerel.c - START -----
class Mackerel extends Edible_Base
■override bool CanBeCookedOnStick()
```

```
// ----- MackerelFilletMeat.c - START ------
class MackerelFilletMeat extends Edible_Base
■override bool CanBeCooked()
■return true;
■override bool CanBeCookedOnStick()
■ return true;
■override bool IsMeat()
■ return true;
■override bool CanDecay()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatMeat);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
// ----- MackerelFilletMeat.c - END ------
// ----- MacrolepiotaMushroom.c - START -----
class MacrolepiotaMushroom: MushroomBase
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
```

```
// ----- Magazine.c - START -----
typedef Magazine Magazine_Base;
enum CartridgeType
\blacksquareNone = 0,
\blacksquarePistol = 1,
\blacksquareIntermediate = 2,
\blacksquareFullPower = 3,
■Shell = 4
enum ProjectileType
\blacksquareNone = 0,
\blacksquareTracer = 1,
\blacksquare AP = 2
class AmmoData
■bool m_lsValid;
■CartridgeType m_CartridgeType;
■ProjectileType m_ProjectileType;
■void AmmoData( string init_type )
m_IsValid = GetGame().ConfigIsExisting( "CfgMagazines " + init_type );
■■if ( m_lsValid )
■■■m_CartridgeType = GetGame().ConfigGetInt( "CfgMagazines " + init_type + " iconCartridge" );
■■■m_ProjectileType = GetGame().ConfigGetInt( "CfgMagazines " + init_type + " iconType" );
——}
|
class Magazine: InventoryItemSuper
■protected static ref map<string, ref AmmoData>■m_AmmoData;
■ref array<float> ■■■■■■■■ ChanceToJam;
■protected float ■■■■■■■■■■■■■■■■■■■m_ManipulationDamage;
■void Magazine ()
■■m_ChanceToJam = new array<float>;
■■InitReliability(m_ChanceToJam);
■■m_ManipulationDamage = ConfigGetFloat("manipulationDamage");
__CompatiableAmmo = new array<string>;
■■ConfigGetTextArray("ammoltems", m CompatiableAmmo):
■■if (!GetGame().IsDedicatedServer())
■■■if(!m_AmmoData)
■■■■m_AmmoData = new map<string, ref AmmoData>;
■■■string classname = ClassName();
■■■if (!m_AmmoData.Contains(classname))
```

```
// ----- MagazineHide.c - START ------
class MagazineHide extends WeaponStateBase
■override void OnEntry (WeaponEventBase e)
■ super.OnEntry(e);
■■//m_weapon.HideMagazine();
■override void OnExit (WeaponEventBase e)
■■super.OnExit(e);
class MagazineHide_W4T extends MagazineHide
■override bool IsWaitingForActionFinish () { return true; }
//
// ----- MagazineHide.c - END ------/
// ------
// -----
// ----- Magazines.c - START ------//
class Mag_FNX45_15Rnd: MagazineStorage {};
class Mag_357Speedloader_6Rnd: MagazineStorage {};
class Mag_Deagle_9rnd: MagazineStorage {};
class Mag_1911_7Rnd: MagazineStorage {};
class Mag_CZ75_15Rnd: MagazineStorage {};
class Mag_Glock_15Rnd: MagazineStorage {};
class Mag_P1_8Rnd: MagazineStorage {};
class Mag_IJ70_8Rnd: MagazineStorage {}
class Mag_MP5_15Rnd: MagazineStorage {};
class Mag_MP5_30Rnd: MagazineStorage {};
class Mag_PM73_15Rnd: MagazineStorage {};
class Mag_PM73_25Rnd: MagazineStorage {}; class Mag_CZ61_20Rnd: MagazineStorage {};
class Mag_MKII_10Rnd: MagazineStorage {};
class Mag_ShockCartridge: MagazineStorage {};
class Mag_Ruger1022_10Rnd: MagazineStorage {}; class Mag_Ruger1022_15Rnd: MagazineStorage {};
class Mag_Ruger1022_30Rnd: MagazineStorage {};
class Mag_CLIP762x54_5Rnd: MagazineStorage {}; class Mag_762x54Snaploader_2Rnd: MagazineStorage {};
class Mag_308WinSnaploader_2Rnd: MagazineStorage ();
class Mag_CLIP762x39_10Rnd: MagazineStorage {};
class Mag_CLIP9x19_10Rnd: MagazineStorage {};
class Mag_AKM_30Rnd: MagazineStorage {};
class Mag_AKM_Drum75Rnd: MagazineStorage {};
class Mag AKM Palm30Rnd MagazineStorage ()
```

```
// ----- MagazineShow.c - START ------
class MagazineShow extends WeaponStateBase
■override void OnEntry (WeaponEventBase e)
■ super.OnEntry(e);
■■if (e)
■■m_weapon.ShowMagazine();
■override void OnExit (WeaponEventBase e)
■■super.OnExit(e);
■}
};
class MagazineShow_W4T extends MagazineShow
■override bool IsWaitingForActionFinish () { return true; }
};
// ----- MagazineShow.c - END -----
// ----- Magnum.c - START -----
const float MAGNUM_ROTATION_POSITION_M1 = -0.167;
const float MAGNUM_ROTATION_POSITION_0 = 0.0;
const float MAGNUM_ROTATION_POSITION_1 = 0.167;
const float MAGNUM_ROTATION_POSITION_2 = 0.334; const float MAGNUM_ROTATION_POSITION_3 = 0.500;
const float MAGNUM_ROTATION_POSITION_4 = 0.668;
const float MAGNUM_ROTATION_POSITION_5 = 0.835;
const float MAGNUM_ROTATION_POSITION_6 = 1.0;
enum MagnumAnimState
■DEFAULT ■■■= 0, ■///< default weapon state
};
enum MagnumStableStateID
■UNKNOWN■■■■= 0,
■DEFAULT■■■= 1,
class Magnum_Static_State extends WeaponStableState
■bool init = false:
```

■override void OnEntry(WeaponEventBase e)

```
// ----- MagnumRecoil.c - START -----
class MagnumRecoil: RecoilBase
■override void Init()
■{
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRan
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 1;
■■m_MouseOffsetRangeMin = 60;//in degrees min
■■m_MouseOffsetRangeMax = 100;//in degrees max
■■m_MouseOffsetDistance = 1.5;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.5;//[0..1] a time it takes to move the mouse the required distance rela
■■m_CamOffsetDistance = 0.04;
■■m_CamOffsetRelativeTime = 1;
|
// ----- MagnumRecoil.c - END -----
// -----
// ----- MainMenu.c - START ------
class MainMenu extends UIScriptedMenu
■protected ref MainMenuStats■m_Stats;
■protected ref MainMenuVideo■■m_Video;
 ■protected MissionMainMenu■■m_Mission;
■protected DayZIntroScenePC ■■m_ScenePC;
■protected TextWidget■■m_PlayerName;
■protected TextWidget■■m_Version;
 ■protected Widget■■■■m_CharacterRotationFrame;
■protected Widget■■■m_Play;
■protected Widget■■ ■■m_ChooseServer;
■protected Widget■■■m_CustomizeCharacter;
```

Inrotected Widget

```
class MainMenuButtonEffect : ScriptedWidgetEventHandler
■reference float speed;
■reference float amount:
■protected float m_textProportion;
■protected float m_textProportion2;
■protected ButtonWidget m_root;
■protected ref AnimatorTimer m_anim;
■void MainMenuButtonEffect()
■■if (GetGame())
■■■GetGame().GetUpdateQueue(CALL_CATEGORY_GUI).Insert(this.Update);
■■m anim = new AnimatorTimer();
•}
■void ~MainMenuButtonEffect()
■■if ( GetGame() && GetGame().GetUpdateQueue(CALL_CATEGORY_GUI) )
■■■GetGame().GetUpdateQueue(CALL_CATEGORY_GUI).Remove(this.Update);
——}
■void OnWidgetScriptInit(ButtonWidget w)
\blacksquare \blacksquare m_{root} = w;
■■m_root.SetHandler(this);
■protected void Update(float tDelta)
■■m anim.Tick(tDelta):
■■float p = amount * m_anim.GetValue();
■■//m_root.SetTextProportion( m_textProportion + (p * 0.5) );
■■m_root.SetTextOffset( p * 4, 0 );
\blacksquarefloat c = 1.0 - m_anim.GetValue();
■■m_root.SetTextColor(ARGBF(1, 1, c, c));
I// -----
■override bool OnFocus(Widget w, int x, int y)
■ if (!m_anim.lsRunning()) m_textProportion = m_root.GetTextProportion();
■■if (!m_anim.lsRunning()))
m_root.GetPos( m_textProportion, m_textProportion2 );
■ m_anim.Animate(1.0, speed);
```

■return false:

```
// ----- MainMenuConsoles.c - START ------
class MainMenuConsole extends UIScriptedMenu
■protected ref MainMenuVideo■■m_Video;
■protected MissionMainMenu■■m_Mission;
■protected DayZIntroScenePC ■■m_ScenePC;
■protected TextWidget■■■m_PlayerName;
■protected TextWidget■■■m_Version;
■protected Widget■■■m_OpenDLC;
■protected Widget■■■m_ChangeAccount;
■protected Widget■■■m_CustomizeCharacter;
■protected Widget■■■m_PlayVideo;
■protected Widget■■■m_Tutorials;
■protected Widget■■■m_Options;
■protected Widget■■■m_Controls;
■protected Widget■■■m_Play;
■protected Widget■■■■m_MessageButton;
■protected ref Widget■■m_LastFocusedButton;
■protected ref ModsMenuDetailed m_ModsDetailed;
■override Widget Init()
[
■■layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/main_menu_console.lay
■■m_PlayerName■■■■= TextWidget.Cast(layoutRoot.FindAnyWidget("character_name_xbox"));
■■m_OpenDLC■■■■■= layoutRoot.FindAnyWidget("show_dlc");
■■m_ChangeAccount■■■■= layoutRoot.FindAnyWidget("choose_account");
■■m_CustomizeCharacter■■= layoutRoot.FindAnyWidget("customize_character");
■■m_PlayVideo■■■■■= layoutRoot.FindAnyWidget("play_video");
■■m_Tutorials■■■■= layoutRoot.FindAnyWidget("tutorials");
■■m_Options■■■■= layoutRoot.FindAnyWidget("options");
■■m_Play■■■■■= layoutRoot.FindAnyWidget("play");
■■m_MessageButton■■■■= layoutRoot.FindAnyWidget("message_button");
■■m_Version■■■■■= TextWidget.Cast(layoutRoot.FindAnyWidget("version"));
■■m Mission■■■■= MissionMainMenu.Cast(GetGame().GetMission());
■■m_LastFocusedButton■■= m_Play;
■■GetGame().GetUIManager().ScreenFadeOut(1);
■■string launch_done;
■■if (!GetGame().GetProfileString("FirstLaunchDone", launch_done) || launch_done != "true")
• {
■■■GetGame().SetProfileString("FirstLaunchDone", "true");
■■■GetGame().GetUlManager().ShowDialog("#main_menu_tutorial", "#main_menu_tutorial_desc", 555,
■■■GetGame().SaveProfile();
•
■■UpdateControlsElements();
■■UpdateControlsElementVisibility();
■■LoadMods();■■
```

■Refresh()·

```
// ----- MainMenuNewsfeed.c - START ------
class MainMenuNewsfeed extends ScriptedWidgetEventHandler
■protected Widget■m_Root;
■protected Widget■■m_DLDLC;
■protected Widget■■m Discord:
■protected Widget■m_Feedback;
■protected Widget■m_DayZForum;
■protected Widget■■m_Twitter;
■protected Widget■■m_Youtube;
■protected TextWidget■m_MainText1;
■protected TextWidget■m MainText2;
■protected TextWidget m_MainText3;
■protected TextWidget■m_SecText1;
■protected TextWidget■m_SecText2;
■protected TextWidget■m SecText3;
■void MainMenuNewsfeed( Widget root )
■■m_Root■■= root;
■■m_DLDLC■■■= m_Root.FindAnyWidget( "downloaddlc" );
■ ■ Discord ■ = m_Root.FindAnyWidget( "discord" );
■■m_Feedback■■= m_Root.FindAnyWidget( "feedback_tracker" );
■■m_DayZForum■■= m_Root.FindAnyWidget( "dayz_forums" );
■■m_Twitter■■= m_Root.FindAnyWidget( "twitter" );
■■m_Youtube■■= m_Root.FindAnyWidget( "youtube" );
■■m_MainText1■■= TextWidget.Cast( m_Root.FindAnyWidget( "SGInfoT1" )
■■m_MainText2■■= TextWidget.Cast( m_Root.FindAnyWidget( "SGInfoT2" )
■■m_MainText3■■= TextWidget.Cast( m_Root.FindAnyWidget( "SGInfoT3" ) );
■■m_SecText1■■= TextWidget.Cast( m_Root.FindAnyWidget( "SGInfoC1" )
■■m_SecText2■■= TextWidget.Cast( m_Root.FindAnyWidget( "SGInfoC2" )
■■m_SecText3■■= TextWidget.Cast( m_Root.FindAnyWidget( "SGInfoC3" ) );
■■ShowNewsfeed();
■■m_Root.SetHandler( this );
•}
■void ShowNewsfeed()
■■//m_Root.Show( true );
■■m_MainText1.SetText( "#layout_mainmenu_newsfeed_sgz_title_1" );
■■m MainText1.Update();
■■m_MainText2.SetText("#layout_mainmenu_newsfeed_sgz_title_2");
■■m_MainText2.Update()
■■m_MainText3.SetText( "#layout_mainmenu_newsfeed_sgz_title_3" );
■■m MainText3.Update();
■■m_SecText1.SetText(`"#layout_mainmenu_newsfeed_sgz_text 1");
■■m_SecText1.Update();
■■m_SecText2.SetText( "#layout_mainmenu_newsfeed_sgz_text_2" );
■m_SecText2.Update();
■ m_SecText3.SetText( "#layout_mainmenu_newsfeed_sgz_text_3" );
■■m_SecText3.Update();
```

}

```
----- MainMenuStats.c - START ------
class MainMenuStats extends ScriptedWidgetEventHandler
■protected Widget m_Root;
■protected Widget m_TimeSurvived;
■protected TextWidget m_TimeSurvivedValue;
■protected Widget m_PlayersKilled;
protected TextWidget m_PlayersKilledValue;
■protected Widget m_InfectedKilled;
■protected TextWidget m_InfectedKilledValue;
■protected Widget m_DistanceTraveled;
■protected TextWidget m_DistanceTraveledValue;
■protected Widget m_LongRangeShot;
■protected TextWidget m_LongRangeShotValue;
■void MainMenuStats( Widget root )
\blacksquare \blacksquare m_Root = root;
■■m_TimeSurvived = m_Root.FindAnyWidget( "TimeSurvived" );
■■m_TimeSurvivedValue = TextWidget.Cast( m_Root.FindAnyWidget( "TimeSurvivedValue" ) );
m_PlayersKilled = m_Root.FindAnyWidget( "PlayersKilled" );
■■m_PlayersKilledValue = TextWidget.Cast( m_Root.FindAnyWidget( "PlayersKilledValue" ) );
■■m_InfectedKilled = m_Root.FindAnyWidget( "InfectedKilled" );
■■m_InfectedKilledValue = TextWidget.Cast( m_Root.FindAnyWidget( "InfectedKilledValue" ) );
■■m_DistanceTraveled = m_Root.FindAnyWidget( "DistanceTraveled" );
■■m_DistanceTraveledValue = TextWidget.Cast( m_Root.FindAnyWidget( "DistanceTraveledValue" ) );
m_LongRangeShot = m_Root.FindAnyWidget( "LongRangeShot" );
■■m_LongRangeShotValue = TextWidget.Cast( m_Root.FindAnyWidget( "LongRangeShotValue" ) );
■}
■void ShowStats()
■■m_Root.Show( true );
■■UpdateStats();
■void HideStats()
■■m_Root.Show( false );
■void UpdateStats()
■■PlayerBase player;
■■MissionMainMenu mission_main_menu = MissionMainMenu.Cast( GetGame().GetMission() );
■■#ifdef PLATFORM_WINDOWS
■■■player = mission_main_menu.GetIntroScenePC().GetIntroCharacter().GetCharacterObj();
```

```
----- MainMenuVideo.c - START ------
class MainMenuVideo extends UIScriptedMenu
■protected string ■■■■m_BackButtonTextID;
■protected VideoWidget■■m_Video;
■protected ref Timer
■■■■
■VideoPlayTimer;
■protected ref WidgetFadeTimer ■ m_VideoFadeTimer;
■bool■■■■■■■m_IsPaused;
■override Widget Init()
■■layoutRoot ■■■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/xbox/video_menu.layout"
■■m_Video■■■■■= VideoWidget.Cast(layoutRoot.FindAnyWidget("video"));
■■m_VideoPlayTimer■■= new Timer();
■ ■ Mm_VideoFadeTimer ■ = new WidgetFadeTimer();
■#ifdef PLATFORM PS4
■■■m_Video.LoadVideo("/app0/video/DayZ_onboarding_MASTER.mp4", 0);
#else
■■■m_Video.LoadVideo("G:\\video\\DayZ_onboarding_MASTER.mp4", 0);
■#endif
■■m_Video.Play(VideoCommand.REWIND);
■■m_Video.Play(VideoCommand.PLAY);
■■m_VideoFadeTimer.FadeIn(m_Video, 1.5);
■■m_VideoPlayTimer.Run(0.005, this, "PlayVideoLoop", null, true);
■■GetGame().GetMission().GetOnInputDeviceChanged().Insert(OnInputDeviceChanged);
■■return layoutRoot;
 }
■void ~MainMenuVideo()
■//after show
■override void OnShow()
■■super.OnShow();
■■GetGame().GetÜlManager().ShowUlCursor(false);
■■GetGame().GetSoundScene().SetSoundVolume(0.0,0.0);
■■UpdateControlsElements();
■}
■//after hide
■override void OnHide()
■■super.OnHide();
■■GetGame().GetUIManager().ShowUICursor(true);
■■GetGame().GetSoundScene().SetSoundVolume(1.0,1.0);
■protected void OnInputDeviceChanged(EInputDeviceType pInputDeviceType)
```

■■UpdateControlsElements():

```
// ----- Makarov.c - START -----
class MakarovIJ70_Base: Pistol_Base
■override RecoilBase SpawnRecoilObject()
■ return new MakarovRecoil(this);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■ GameInventory inventory = GetInventory();
■ inventory. CreateInInventory("PistolSuppressor");
■■SpawnAttachedMagazine("Mag_IJ70_8Rnd");
};
// -----
// ----- Makarov.c - END ------
// -----
// ----- MakarovPBSuppressor.c - START ------
class MakarovPBSuppressor extends ItemSuppressor
■override bool CanPutAsAttachment( EntityAl parent )
■■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if ( parent.FindAttachmentBySlotName("suppressorImpro") == NULL && parent.FindAttachmentBySlotName("suppressorImpro")
■■return true;
■ return false;
// ----- MakarovPBSuppressor.c - END ------
// ----- MakarovRecoil.c - START -----
class MakarovRecoil: RecoilBase
■override void Init()
■ vector point_1;
```

■ vector point 2:

```
// ----- Man.c - START -----
class LightAl extends ManSuper
// ----- Man.c - END ------/
// -----
// ----- ManBase.c - START -----
class ManBase extends DayZPlayerImplement // PSOVIS originaly extends Man
■void ManBase()
■ Print("PSOVIS: this is ManBase");
■//! On Client, 'true' if this instance of a character is controlled by the player(ie. not a remote player)
■bool IsControlledPlayer()
return( GetGame().GetPlayer() == this );
■override void OnVariablesSynchronized()
■ super.OnVariablesSynchronized();
■}
// ----- ManBase.c - END -----
// ----- ManSuit_ColorBase.c - START -------//
class ManSuit_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
```

class ManSuit Reige extends ManSuit ColorBase A.

```
//! Trigger only accepting Object which IsMan()
class ManTrigger: Trigger
■override void EOnInit(IEntity other, int extra)
■■SetExtents("-2 -2 -2", "2 2 2");
■override protected bool CanAddObjectAsInsider(Object object)
■ return object.lsMan();
};
// ----- ManTrigger.c - END -----
// ----- MapHandler.c - START ------//
class MapHandler: ScriptedWidgetEventHandler
■protected Widget m_Root;
■void MapHandler(Widget w)
■{
\blacksquarem_Root = w;
■■m_Root.SetHandler(this);
■}
■override bool OnKeyDown(Widget w, int x, int y, int key)
■■if (!super.OnKeyDown(w, x, y, key))
■■return false;
■■vector screen_to_map = MapWidget.Cast(w).ScreenToMap(Vector(x,y,0));
■■Print(key);
■■Print(screen_to_map);
■ return true;
■}
■override bool OnDoubleClick(Widget w, int x, int y, int button)
■ super.OnDoubleClick(w, x, y, button);
wector screen_to_map = MapWidget.Cast(w).ScreenToMap(Vector(x,y,0));
■■MapMenu m = MapMenu.Cast(g_Game.GetUlManager().FindMenu(MENU_MAP));
■■int rand = Math.RandomInt(0,eMapMarkerTypes.MAKKERTYPE MAX);
■■//m.AddMarker(screen_to_map,ARGB(255,255,0,0),rand);
```

■■//m AddLlserMark(screen to man "marker" ARGR(255.0.0.255) "\\dz\\gear\\navigation\\data\\man tro

```
// ----- MapMarkersInfo.c - START -----
class MapMarkerTypes
multiple by the protected static ref map<int,string> m_MarkerTypes;
 ■static void Init()
MarkerTypes = new ref map<int,string>;
 ■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_BORDER_CROSS,"\\DZ\\gear\\navigat
■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_BROADLEAF,"\\DZ\\gear\\navigation\\c
■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_CAMP,"\\DZ\\gear\\navigation\\data\\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\math
■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_FIR,"\\DZ\\gear\\navigation\\data\\map_
■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_FIREDEP,"\\DZ\\gear\\navigation\\data
RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_GOVOFFICE,"\\DZ\\gear\\navigation\\d
RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_HILL,"\\DZ\\gear\\navigation\\data\\map
■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_MONUMENT,"\\DZ\\gear\\navigation\\d
RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_PALM,"\\DZ\\gear\\navigation\\data\\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea{\mathrea
■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_STATION,"\\DZ\\gear\\navigation\\data
■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_STORE,"\\DZ\\gear\\navigation\\data\\n
■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_TOURISM,"\\DŽ\\gear\\navigation\\data
■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_TRANSMITTER,"\\DZ\\gear\\navigation
■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_TSHELTER,"\\DZ\\gear\\navigation\\da
RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_TSIGN,"\\DZ\\gear\\navigation\\data\\m\RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_VIEWPOINT,"\\DZ\\gear\\navigation\\data\\m\RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_VINEYARD,"\\DZ\\gear\\navigation\\data\\m\RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_VINEYARD,"\\DZ\\gear\\navigation\\data\\m\RegisterMarkerType\text{\text{$\frac{1}{2}$}}
■■RegisterMarkerType(eMapMarkerTypes.MARKERTYPE_MAP_WATERPUMP,"\\DZ\\gear\\navigation\\
■}
 ■static void RegisterMarkerType(int id, string path)
■■m_MarkerTypes.Set(id,path);
■static string GetMarkerTypeFromID(int id)
 ■■return m_MarkerTypes.Get(id);
enum eMapMarkerTypes
■MARKERTYPE_MAP_BORDER_CROSS = 0,
■MARKERTYPE_MAP_BROADLEAF,
■MARKERTYPE MAP CAMP
 ■MARKERTYPE_MAP_FACTORY,
■MARKERTYPE_MAP_FIR.
■MARKERTYPE_MAP_FIREDEP
■MARKERTYPE_MAP_GOVOFFICE,
■MARKERTYPE_MAP_HILL
■MARKERTYPE_MAP_MONUMENT,
 ■MARKERTYPE_MAP_PALM,
■MARKERTYPE_MAP_POLICE
■MARKERTYPE_MAP_STATION,
■MARKERTYPE_MAP_STORE,
```

■MARKERTYPE_MAP_TOURISM,
■MARKERTYPE_MAP_TRANSMITTER

```
// ----- MapMenu.c - START -----
class MapMenu extends UIScriptedMenu
■protected const string COORD_FORMAT ■■■= "%1.%2%3";
■protected const int SCALE_RULER_LINE_WIDTH ■■= 8;
■protected const int SCALE_RULER_NUM_SEGMENTS ■= 10;
■protected bool ■■■■■■■m_WasChanged;
protected bool ■■■■■■■m_HasCompass
■protected bool ■■■■■■■m_HasGPS
■protected bool ■■■■■■■m_IsOpenning;
■protected float■■■■■■■m_ToolScaleCellSizeCanvasWidth;
■protected ref IngameHud■■■■m_Hud;
■protected ref MapHandler ■■■■m_MapMenuHandler;
■protected ref MapWidget ■■■■m_MapWidgetInstance;
■ protected ref SizeToChild ■ ■ ■ LegendResizer:
■protected ImageWidget ■■■■m_Images;
■protected Widget■■■■■m_GPSMarker;
■protected ImageWidget■■■■m_GPSMarkerArrow;
■ protected Widget ■ ■ ■ ■ ■ ■ UpperLegendContainer; ■ protected Widget ■ ■ ■ ■ ■ ToolsCompassBase;
■protected ImageWidget■■■■m_ToolsCompassArrow;
■protected TextWidget■■■■m_ToolsCompassAzimuth;
■protected TextWidget■■■■m_ToolsScaleContourText;
■protected TextWidget■■■■m_ToolsGPSElevationText;
■protected TextWidget■■■■m_ToolsGPSXText;
■protected TextWidget■■■■m_ToolsGPSYText;
■protected TextWidget■■■■m_ToolsScaleCellSizeText;
■protected CanvasWidget■■■■m_ToolsScaleCellSizeCanvas;
■protected ItemMap ■■■■■■m_Map;
■//int ■■■■■■■■■■■■■m_MarkerCount;
■protected ref MapNavigationBehaviour m_MapNavigationBehaviour;
■override Widget Init()
-{
■■layoutRoot ■■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/day_z_map.layout");
■■m_Hud ■■■■= IngameHud.Cast(GetGame().GetMission().GetHud());
■■m_IsOpenning■■= true;
■■/*MapWidget m = MapWidget.Cast(layoutRoot.FindAnyWidget("Map"));
■■if (m)
m.AddUserMark("2681 4.7 1751", "Lalal", ARGB(255,255,0,0), "\\dz\\gear\\navigation\\data\\map_treemle m.AddUserMark("2683 4.7 1851", "Lala2", ARGB(255,0,255,0), "\\\dz\\gear\\navigation\\data\\map_bum.AddUserMark("2670 4.7 1651", "Lala3", ARGB(255,0,0,255), "\\\dz\\gear\\navigation\\data\\map_bum.AddUserMark("2670 4.7 1651", "Lala3", ARGB(255,0,0,0,255), "\\\dz\\gear\\navigation\\data\\navigation\\data\\map_bum.AddUserMark("2670 4.7 1651", "Lala3", ARGB(255,0,0,0,255), "\\\dz\\gear\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\\data\\\navigation\data\\navigation\\data\\navigation\\data\\navigation\\data\\navigation\data\\navigation\data\\\\navigation\data\\na
| | | | | | |
■■Widget mapToolsContainer = layoutRoot.FindAnyWidget("Map_Tools_Container");
■■mapToolsContainer.GetScript(m_LegendResizer);
■■m_MapWidgetInstance■■■= MapWidget.Cast(layoutRoot.FindAnyWidget("Map"));
■■m_GPSMarker■■■■= layoutRoot.FindAnyWidget("GPSMarkerCircle");
■■m_GPSMarkerArrow■■■= ImageWidget.Cast(layoutRoot.FindAnyWidget("GPSMarkerArrow"));
■■m_UpperLegendContainer■■= ĬayoutŘoot.FindAnyWidget("Tools´Extra");
```

■■lavoutRoot Lindate():

```
----- MapNavigationBehaviour.c - START ------
enum EMapNavigationType
■BASIC \blacksquare= 0,
■COMPASS■= 1,
■GPS ■= 2,
■ALL■■= 4
class MapNavigationBehaviour
aconst int RANDOM_DEVIATION_MIN ■■■■■■= 4;
■const int RANDOM_DEVIATION_MAX ■■■■■■= 15;
■static const int DISPLAY_GRID_POS_MAX_CHARS_COUNT ■= 3;
■static const int DISPLAY_ALT_MAX_CHARS_COUNT ■■= 4;
■protected static const string GRID_SIZE_CFG_PATH■= "CfgWorlds %1 Grid Zoom1 stepX";
■protected int■■■■m_RandomPositionDeviationX;
■protected int■■■■■m_RandomPositionDeviationZ;
■protected EMapNavigationType■m_NavigationType;
■protected PlayerBase■■m_Player;
■protected ref array<EntityAl>■m_GPSInPossessionArr;
■protected ref array<EntityAl>■m_CompassInPossessionArr;
■void MapNavigationBehaviour(PlayerBase pPlayer, EMapNavigationType pNavigationType = EMapNavi
■■m_Player ■■■■= pPlayer;
■■m_NavigationType■■= pNavigationType;
■■m_GPSInPossessionArr ■■= new array<EntityAl>();
■■m_CompassInPossessionArr■= new array<EntityAl>();
■protected void SetNavigationType(EMapNavigationType pType)
■■m_NavigationType = m_NavigationType | pType;
■protected void UnsetNavigationType(EMapNavigationType pType)
■■m_NavigationType = m_NavigationType & ~pType;
■EMapNavigationType GetNavigationType()
■■return m_NavigationType;
■void OnItemInPlayerPossession(EntityAl item)
■■if (item.IsInherited(ItemGPS))
■■if (m_GPSInPossessionArr.Find(item) == INDEX_NOT_FOUND)
■■■m_GPSInPossessionArr.Insert(item);
```

■■■SetNavigationType(FManNavigationType GPS):

```
class Marmalade: Edible_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatBig);
};
// ----- Marmalade.c - END ------//
// ----- Mask.c - START -----
class MaskMdfr: ModifierBase
■const float IN_AREA_CONSUME_FILTER_QUANTITY_PER_SEC = 0.3;
■const float OUT_AREA_CONSUME_FILTER_QUANTITY_PER_SEC = 0.03;
■const float STAMINA_RECOVERY_MODIFIER = 0.5;
■const float STAMINA_DEPLETION_MODIFIER = 1.25;
■const float LOW_FILTER_SOUND_EVENT_MIN = 3;
■const float LOW FILTER SOUND EVENT MAX = 9:
■const float LOW_FILTER_SOUND_THRESHOLD = 0.2;//[0..1], what's the filter quantity between 0 and
■float m_SoundTimeAccu1;
■float m_NextSoundEventTime;
■override void Init()
■■m_TrackActivatedTime = false;
■■m_ID ■■■■■= eModifiers.MDF_MASK;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE_SHORT;
■override bool ActivateCondition(PlayerBase player)
■ireturn MaskBase.Cast(player.GetInventory().FindAttachment(InventorySlots.MASK)) != null;
■override bool DeactivateCondition(PlayerBase player)
■■return !ActivateCondition( player);
```

Inverride void OnTick(PlayerRase player_float deltaT)

```
----- MaskBase.c - START -----
class MaskBase extends Clothing
■float m_LowFilterEventTime;
■override bool IsGasMask()
■ return true;
■override array<int> GetEffectWidgetTypes()
■■return {EffectWidgetsTypes.MASK_OCCLUDER, EffectWidgetsTypes.MASK_BREATH};
■override bool AllowFoodConsumption()
■■return false;
•}
■override void OnDebugSpawn()
■■GetInventory().CreateInInventory("GasMask_Filter");
■override void EEItemAttached(EntityAI item, string slot_name)
■ super.EEItemAttached(item, slot_name);
■EntityAl GetExternalFilter()
■■return FindAttachmentBySlotName("GasMaskFilter");
■//! has either external or integrated non-empty non-ruined filter?
■bool HasValidFilter()
■■ItemBase filter = ItemBase.Cast(GetExternalFilter());
■■if (filter && !filter.lsRuined() && filter.GetQuantity() > 0)
■■■return true:
■■else if (GetQuantity() > 0 && !IsRuined())
■■return true;
■■return false;
■float GetFilterQuantityMax()
■■ItemBase filter = ItemBase.Cast(GetExternalFilter());
■■if (filter) //mask can have a filter, and filter is attached
■■■return filter.GetQuantityMax();
■■else if (HasQuantity())//filter was not attached, checking if mask has internal filter
■■■return GetQuantityMax();
■■//mask does not have a filter attached nor does it have internal filter, max quantity can't be obtained
Teturn 0:
```

```
// ----- Matchbox.c - START -----
class Matchbox extends ItemBase
■override void InitItemVariables()
■■super.InitItemVariables();
■ can_this_be_combined = true;
■override bool CanIgniteItem( EntityAI ignite_target = NULL )
■if (GetQuantity() > 0 && GetWet() < GameConstants.STATE_DAMP)
■■return true;
■■else
■■ return false;
■override void OnIgnitedTarget( EntityAl ignited_item )
■■if ( GetGame().IsServer() )
■■■AddQuantity( -1 );
■override void OnIgnitedTargetFailed( EntityAl target_item )
■ if ( GetGame().IsServer() )
■■AddQuantity( -1 );
■}
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionLightItemOnFire);
■}
■override bool IsTargetIgnitionSuccessful( EntityAl item_target = NULL )
// ----- Matchbox.c - END -----
// ----- MeatTenderizer.c - START -----
```

class MeatTenderizer: Inventory Base

```
// ----- MedicalScrubsHat_ColorBase.c - START ------
class MedicalScrubsHat_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes):
class MedicalScrubsHat_Blue extends MedicalScrubsHat_ColorBase {};
class MedicalScrubsHat_White extends MedicalScrubsHat_ColorBase {};
class MedicalScrubsHat_Green extends MedicalScrubsHat_ColorBase \{\}
// ----- MedicalScrubsHat_ColorBase.c - END ------//
/// ----- MedicalScrubsPants_ColorBase.c - START ------
class MedicalScrubsPants_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class MedicalScrubsPants_Blue extends MedicalScrubsPants_ColorBase {};
class MedicalScrubsPants_Green extends MedicalScrubsPants_ColorBase {}; class MedicalScrubsPants_White extends MedicalScrubsPants_ColorBase {};
// ----- MedicalScrubsPants_ColorBase.c - END ------
// ----- MedicalScrubsShirt_ColorBase.c - START ------
class MedicalScrubsShirt_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class MedicalScrubsShirt_Blue extends MedicalScrubsShirt_ColorBase {}; class MedicalScrubsShirt_Green extends MedicalScrubsShirt_ColorBase {};
class MedicalScrubsShirt_White extends MedicalScrubsShirt_ColorBase {};
```

```
----- MediumGasCannister.c - START ------
class MediumGasCannister extends ItemBase
■override bool CanExplodeInFire()
■ return true;
// ----- MediumGasCannister.c - END ------
// ----- MediumTent.c - START -----
class MediumTent extends TentBase
void MediumTent()
■m_ToggleAnimations.Insert( new ToggleAnimations("EntranceO", "EntranceC", OPENING_0), 0 );
■■m_ShowAnimationsWhenPitched.Insert( "Body" );
■■//m_ShowAnimationsWhenPitched.Insert( "EntranceO" );
■■m_ShowAnimationsWhenPitched.Insert( Pack");
■■m_ShowAnimationsWhenPacked.Insert( "Inventory" );
\blacksquarem_HalfExtents = Vector(0.8, 0.15, 1.3);
■override void EEInit()
{
■■super.EEInit();
■override void OnItemLocationChanged(EntityAl old_owner, EntityAl new_owner)
■■super.OnItemLocationChanged(old_owner, new_owner);
■override string GetSoundOpen()
■■return "MediumTent_Door_Open_SoundSet";
■override string GetSoundClose()
■■return "MediumTent_Door_Close_SoundSet";
■override bool HasClutterCutter()
■ return true:
```

```
// ----- Megaphone.c - START -----
class Megaphone extends ItemMegaphone
■override bool IsTransmitter()
■return true;
||
■//--- POWER EVENTS■
■override void OnSwitchOn()
■■if (!GetCompEM().CanWork())
■■■GetCompEM().SwitchOff();
||
■override void OnWorkStart()
■■//turn device on
■■SwitchOn (true); // Note: This is not Energy Manager function. This is engine function.
■override void OnWorkStop()
■■//auto switch off (EM)
■■GetCompEM().SwitchOff();
■■//turn off device
■■SwitchOn (false); // Note: This is not Energy Manager function. This is engine function.
■//TODO add turn on/off actions
■//proto native bool CanSpeak();
//proto native void SetCanSpeak(bool onOff);
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionTurnOnTransmitter);
■■AddAction(ActionTurnOffTransmitter);
■■AddAction(ActionRaiseMegaphone);
||
// ----- Megaphone.c - END -----
```

```
...// ----- MeleeAttack.c - START -----
class MeleeAttackSoundEvents extends PlayerSoundEventBase
■void MeleeAttackSoundEvents()
■■m_Type = EPlayerSoundEventType.MELEE;
■■m_HasPriorityOverTypes = -1;
■override bool CanPlay(PlayerBase player)
■ return true;
■override bool HasPriorityOverCurrent(PlayerBase player, EPlayerSoundEventID other_state_id, EPlayer
■if( type_other == EPlayerSoundEventType.DAMAGE )
■■■return false;
■ return true;
■override void OnEnd()
■■super.OnEnd();
■lif(m_Player)
■■■StaminaSoundHandlerClient.Cast(m_Player.m_PlayerSoundManagerClient.GetHandler(eSoundHandlerClient)
class MeleeAttackLightEvent extends MeleeAttackSoundEvents
■void MeleeAttackLightEvent()
■ m_ID = EPlayerSoundEventID.MELEE_ATTACK_LIGHT;
■ m_SoundVoiceAnimEventClassID = 16;
class MeleeAttackHeavyEvent extends MeleeAttackSoundEvents
void MeleeAttackHeavyEvent()
■ m_ID = EPlayerSoundEventID.MELEE_ATTACK_HEAVY;
■ m_SoundVoiceAnimEventClassID = 17;
```

```
// ----- MeleeTargeting.c - START ------
class MeleeTargetData
■Object Obj;
■vector HitPos;
■int HitComponent;
■void MeleeTargetData(Object o, vector p, int c)
\blacksquareObj = o;
\blacksquareHitPos = p;
\blacksquareHitComponent = c;
class MeleeTargetSettings
■vector ConeOrigin;
■float ConeLength;
■float ConeHalfAngle;
■float ConeHalfAngleRad;
■float ConeMinHeight;
■float ConeMaxHeight;
■vector ConeLeftPoint;
■vector ConeRightPoint;
vector RayStart;
■vector RayEnd;
■vector Dir:
■vector XZDir;
■float MaxDist;
■EntityAl Attacker;
■ref array<typename> TargetableObjects
■void MeleeTargetSettings(vector coneOrigin, float coneLength, float coneHalfAngle, float coneMinHeight
■■ConeOrigin ■■■= coneOrigin;
■■ConeLength ■■■= coneLength;
■■ConeHalfAngle ■■= coneHalfAngle;
■■ConeHalfAngleRad ■= Math.DEĞ2RAD * coneHalfAngle;
■■ConeMinHeight ■■= coneMinHeight;
■■ConeMaxHeight ■■= coneMaxHeight;
■■RayStart ■■■= rayStart;
■■RayEnd ■■■■= rayStart + Math.SqrFloat(coneLength) * dir;
■■Dir ■■■= dir;
■■XZDir ■■■■= dir;
\blacksquareXZDir[1] \blacksquare\blacksquare= 0;
■■XZDir.Normalize();
■■MaxDist ■■■= maxDist;
■■Attacker ■■■= pTolgnore;
```

■■TargetableObjects ■= targetableObjects;

```
// ----- MenuCarEngineSmoke.c - START ------
class MenuCarEngineSmoke : EffectParticle
■void MenuCarEngineSmoke()
■■SetParticleID(ParticleList.SMOKING_CAR_ENGINE);
// ----- MenuCarEngineSmoke.c - END -------// ------
// ----- MenuEvaporation.c - START -----
class MenuEvaporation : EffectParticle
■void MenuEvaporation()
■■SetParticleID(ParticleList.EVAPORATION);
■}
// ----- MenuEvaporation.c - END -----
// ----- menuManager.c - START -----
#ifdef GAME_TEMPLATE
enum DialogPriority
INFORMATIVE,
■WARNING,
■CRITICAL
enum DialogResult
PENDING,
■OK,
■YES.
■NO,
■CANCEL,
enum ScriptMenuPresetEnum
```

```
----- MessageReceiverBase.c - START ------
class MessageReceiverBase
 I// message system
■PluginMessageManager m_ModuleMessageManager;
■string m_System;
■ void OnReceive(int channel) {}
■ void OnReceiveInt(int channel, int value) {}
■ void OnReceiveFloat(int channel, float value) {}
■ void OnReceiveString(int channel, string value) {}
■ void OnReceiveString(int channel, string value) {}
■//! This method is called when an object inheriting from this class subscribes to a channel, and a message
■void OnReceiveParam(int channel, Param params) {}
■void MessageReceiverBase()
ModuleMessageManager = PluginMessageManager.Cast(GetPlugin(PluginMessageManager));
■void Subscribe(int channel)
■ ModuleMessageManager.Subscribe(this,channel);
■void Unsubscribe(int channel)
■■if( IsPluginManagerExists() ) m_ModuleMessageManager.Unsubscribe(this,channel);
■void UnsubscribeAll()
■■if( IsPluginManagerExists() ) m_ModuleMessageManager.UnsubscribeAll(this);
■void Broadcast(int channel)
■■m_ModuleMessageManager.Broadcast(channel);
■void BroadcastInt(int channel, int value)
■■m_ModuleMessageManager.BroadcastInt(channel, value);
■void BroadcastFloat(int channel, float value)
■■m_ModuleMessageManager.BroadcastFloat(channel, value);
■void BroadcastString(int channel, string value)
■■m_ModuleMessageManager.BroadcastString(channel, value);
■void BroadcastParam(int channel,Param params)
■■m_ModuleMessageManager.BroadcastParam(channel, params);
```

```
// ----- MessTin.c - START -----
class MessTin: Inventory_Base {};
// ----- MessTin.c - END -----
// ----- MetalPlate.c - START -----
class MetalPlate extends ItemBase
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionAttachToConstruction);
■■AddAction(ActionAttachOnSelection);
// ----- MetalPlate.c - END -----
// ----- MetalWire.c - START -----
class MetalWire extends ItemBase
■ static string SEL_WIRE_ROLLED = "rolled";
■ static string SEL_WIRE_PREFIX = "Att_";
■ static string SEL_WIRE_SUFIX = "_plugged";
■ static string SEL_PLUG_SUFIX = "_plug";
■void MetalWire()
■override bool CanPutAsAttachment( EntityAl parent )
■■if (!super.CanPutAsAttachment(parent))
■■return false:
■■if (parent.lsInherited(VehicleBattery))
 ■■EntityAl battery_owner = EntityAl.Cast( parent.GetHierarchyParent() );
```

■■// Check for Not player as if parent is not player, battery is already attached and should not receive no

```
// ----- Mich2001Helmet.c - START ------
class Mich2001Helmet extends HelmetBase
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■Clothing eyewear = Clothing.Cast(parent.FindAttachmentBySlotName("Eyewear"));
■■if ( eyewear && eyewear.ConfigGetBool("isStrap") )
■■■return false;
}
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionTurnOnHelmetFlashlight); //use default light actions instead?
■■AddAction(ActionTurnOffHelmetFlashlight);
■■AddAction(ActionToggleNVG);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■ EntityAl entity:
■■if (Class.CastTo(entity, this))
Emigentity.GetInventory().CreateInInventory("NVGoggles");
entity.GetInventory().CreateInInventory( "UniversalLight" );
entity.GetInventory().CreateInInventory( "Battery9V" );
entity.GetInventory().CreateInInventory( "Battery9V" );
——}
■}
};
// ----- Mich2001Helmet.c - END ------
// -----
// ----- MilitaryBelt.c - START ------
class MilitaryBelt: Clothing
■override bool CanPutInCargo(EntityAl parent)
■■if(!super.CanPutInCargo(parent))
■■return false:
```

| | |

```
// ----- MilitaryBeret_ColorBase.c - START ------
class MilitaryBeret_ColorBase extends Clothing {};
class MilitaryBeret_Red extends MilitaryBeret_ColorBase {};
class MilitaryBeret_UN extends MilitaryBeret_ColorBase {};
class MilitaryBeret_NZ extends MilitaryBeret_ColorBase {};
class MilitaryBeret_ChDKZ extends MilitaryBeret_ColorBase {};
class MilitaryBeret CDF extends MilitaryBeret ColorBase {};
// ----- MilitaryBeret_ColorBase.c - END -----
// -----
// ----- MilitaryBoots_ColorBase.c - START -------//
class MilitaryBoots_ColorBase extends ClothingBase
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if ( parent != this )
•
■■return true;
——}
■■return false;
||
};
class MilitaryBoots_Beige extends MilitaryBoots_ColorBase {};
class MilitaryBoots_Black extends MilitaryBoots_ColorBase ()
class MilitaryBoots_Bluerock extends MilitaryBoots_ColorBase {};
class MilitaryBoots_Brown extends MilitaryBoots_ColorBase {};
class MilitaryBoots_Redpunk extends MilitaryBoots_ColorBase {};
// ----- MilitaryBoots_ColorBase.c - END -----
// -----
// -----
// ----- Mil_Barracks1.c - START -----
// -----
class Land_Mil_Barracks1 extends BuildingWithFireplace
// ----- Mil_Barracks1.c - END ------
```

```
// ----- Mil_Barracks3.c - START -----
class Land_Mil_Barracks3 extends BuildingWithFireplace
}
// ----- Mil Barracks3.c - END ------
// -----
// ----- Mil_Barracks4.c - START -----
// -----
class Land_Mil_Barracks4 extends BuildingWithFireplace
// -----
// ----- Mil Barracks4.c - END ------
// ----- MimeMask.c - START -----
class MimeMask_Male : Clothing
Eoverride bool CanPutAsAttachment(EntityAl parent)
■■if (!super.CanPutAsAttachment(parent))
■■return false;
■■Clothing headgear = Clothing.Cast(parent.FindAttachmentBySlotName("Headgear"));
■■if (headgear && (headgear.ConfigGetBool("noMask") && !PumpkinHelmet.Cast(headgear)))
■■return false;
| | |
■■Clothing eyewear = Clothing.Cast(parent.FindAttachmentBySlotName("Eyewear"));
■■if (eyewear && SportGlasses_ColorBase.Cast(eyewear)) //eyewear.ConfigGetBool("noMask")
■■■return false;
|
■ return true;
■}
};
class MimeMask_Female : MimeMask_Male
};
```

```
----- MindStates.c - START -----
class MindStateSoundEventBase extends InfectedSoundEventBase
■override bool CanPlay()
■■if(!super.CanPlay())
■■return false;
Teturn true;
■}
class CalmIdleSoundEvent extends MindStateSoundEventBase
■void CalmIdleSoundEvent()
■{
■■m_Type = EInfectedSoundEventType.GENERAL;
■■m ID = EInfectedSoundEventID.MINDSTATE CALM IDLE;
■■m SoundSetNameRoot = "CalmIdle":
class CalmMoveSoundEvent extends MindStateSoundEventBase
■void CalmMoveSoundEvent()
{
m_Type = EInfectedSoundEventType.GENERAL;
■■m ID = EInfectedSoundEventID.MINDSTATE CALM MOVE:
■■m_SoundSetNameRoot = "CalmMove";
class DisturbedIdleSoundEvent extends MindStateSoundEventBase
■void DisturbedIdleSoundEvent()
■■m_Type = EInfectedSoundEventType.GENERAL;
■■m_ID = EInfectedSoundEventID.MINDSTATE_DISTURBED_IDLE;
■■m SoundSetNameRoot = "DisturbedIdle";
|
class ChaseMoveSoundEvent extends MindStateSoundEventBase
■void ChaseMoveSoundEvent()
■■m_Type = EInfectedSoundEventType.GENERAL;
■■m ID = EInfectedSoundEventID.MINDSTATE CHASE MOVE:
■■m_SoundSetNameRoot = "ChaseMove";
■}
class AlertedIdleSoundEvent extends MindStateSoundEventBase
void AlertedIdleSoundEvent()
■m_Type = EInfectedSoundEventType.GENERAL;
```

■■m IĎ – FInfectedSoundEventID MÍNDSTATE ALERTED IDLE:

```
// ----- MiniDress_ColorBase.c - START ------
class MiniDress_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class MiniDress_Pink extends MiniDress_ColorBase {};
class MiniDress_PinkChecker extends MiniDress_ColorBase {};
class MiniDress_RedChecker extends MiniDress_ColorBase ();
class MiniDress_WhiteChecker extends MiniDress_ColorBase {};
class MiniDress_GreenChecker extends MiniDress_ColorBase \{\};
class MiniDress_BrownChecker extends MiniDress_ColorBase {};
class MiniDress_BlueChecker extends MiniDress_ColorBase {};
class MiniDress_BlueWithDots extends MiniDress_ColorBase {};
// ----- MiniDress_ColorBase.c - END ------
// -----
// -----
// ----- MiscEvents.c - START ------//
class PickupHeavySoundEvent extends PlayerSoundEventBase
■void PickupHeavySoundEvent()
■ MasPriorityOverTypes = -1;//-1 for all
■■m_Type = EPlayerSoundEventType.STAMINA;
■■m_ID = EPlayerSoundEventID.PICKUP_HEAVY;
■■m_SoundVoiceAnimEventClassID = 19;
// ----- MiscEvents.c - END -----
// -----
// ----- MiscGameplayFunctions.c - START -----
class TurnItemIntoItemLambda extends ReplaceItemWithNewLambda
■bool m_TransferAgents;
■bool m_TransferVariables;
■bool m_TransferHealth;
■bool m_ExcludeQuantity;
■float m_quantity_override;
```

```
----- missionBase.c - START -----
class MissionBase extends MissionBaseWorld
■PluginDeveloper ■■m_ModuleDeveloper;
■PluginKeyBinding
■m_ModuleKeyBinding
■PluginAdditionalInfo■m_ModuleServerInfo;
■ref WidgetEventHandler ■m_WidgetEventHandler;
■ref WorldData
■m_WorldData;
■ref WorldLighting
■m_WorldLighting;
■ref array<PlayerBase> m_DummyPlayers = new array<PlayerBase>;
■void MissionBase()
■{
■■SetDispatcher(new DispatcherCaller);
■■PluginManagerInit();
■■m_WidgetEventHandler = new WidgetEventHandler;
■■//Debug.DestroyAllShapes();
■■//TODO clea up after Gamescom
■■m_ModuleServerInfo = PluginAdditionalInfo.Cast( GetPlugin(PluginAdditionalInfo) );
■■SoundSetMap.Init();
■■if (GetGame().IsServer())
■■InitialiseWorldData();
==}
■■else
■■■GetDayZGame().GetAnalyticsClient().RegisterEvents();
■■m_WorldLighting■= new WorldLighting;
| | |
■■GetOnInputDeviceConnected().Insert(UpdateInputDevicesAvailability);
■■GetOnInputDeviceDisconnected().Insert(UpdateInputDevicesAvailability);
■■// There is a possibility different maps/servers may be using different effects
■■SEffectManager.Cleanup();
■}
■void ~MissionBase()
■■PluginManagerDelete();
■■if ( GetGame().IsClient() )
■■■GetDayZGame().GetAnalyticsClient().UnregisterEvents();■
■■TriggerEffectManager.DestroyInstance();
■}
■void InitialiseWorldData()
```

■■string worldName – "empty":

```
class MissionBaseWorld extends Mission
}
// ----- MissionBaseWorld.c - END -----
// -----
// ----- missionGameplay.c - START -----
class MissionGameplay extends MissionBase
■int■■■■■■■■m_LifeState;
■bool■■■■■■■m_Initialized;
■protected UIManager
■■■■
■UIManager;
■Widget■■■■■■ HudRootWidget;
■ImageWidget ■■■■■m_MicrophoneIcon;
■ref InventoryMenu■■■■m_InventoryMenu;
■ref Chat ■■■■■■ Chat:
■ref ActionMenu■■■■■m_ActionMenu;
■ref IngameHud■■■■m_Hud;
■ref HudDebug
■m_HudDebug
■ref LogoutMenu■■■■m_Logout;
■ref DebugMonitor
■DebugMonitor
■DebugMonitor
□
■protected ref ScriptInvoker ■■m_OnConnectivityChanged;
■protected ref GameplayEffectWidgets■■m_EffectWidgets;
■ref Timer■■■■■■ ChatChannelHideTimer:
■ref WidgetFadeTimer
■m_ChatChannelFadeTimer;
■ref WidgetFadeTimer
■■■■m_MicFadeTimer;
■Widget■■■■■■m_ChatChannelArea;
■TextWidget■■■■■m_ChatChannelText;
■NoteMenu ■■■■■■ Note:
■protected ref Timer
■■■m_ToggleHudTimer;
■protected const int ■■■HOLD_LIMIT_TIME■= 300; //ms
■protected int■■■■m_ActionDownTime;
■protected int■■■■m_ActionUpTime;
■protected bool ■■■■■m_InitOnce;
■protected bool ■■■■■m_ControlDisabled; //DEPRECATED; disabled mode stored below
■protected int ■■■■■m_ControlDisabledMode;
■protected ref array<string> ■m_ActiveInputExcludeGroups; //exclude groups defined in 'specific.xml' file
■protected ref array<int> ■■m_ActiveInputRestrictions; //additional scripted restrictions
■protected bool■■■■■m_ProcessInputExcludes;
■protected bool ■■■■■m_QuickbarHold;
```

inrotected hool

```
// ----- MissionLoader.c - START ------
class MissionLoader extends UIScriptedWindow
■string■■■■m_PathToMissions;
■TextListboxWidget■m_WgtLstMsnList;
■ButtonWidget■■m_WgtBtnMsnPlay;
■ButtonWidget■■m_WgtBtnMsnClose;
■ref TStringArray
■m_ListMissionsNames;
■void MissionLoader( int id )
■{
\blacksquare \blacksquare m_Id = id;
•}
■override Widget Init()
■■m ListMissionsNames = GetMissionList();
■■m_WgtRoot■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_mission_loader.layouts/day_z_
m_WgtLstMsnList = TextListboxWidget.Cast( m_WgtRoot.FindAnyWidget("wgt_lst_missions") );
■■m_WgtBtnMsnPlay = ButtonWidget.Cast( m_WgtRoot.FindAnyWidget("wgt_btn_mission_play") )
■■m_WgtBtnMsnClose = ButtonWidget.Cast( m_WgtRoot.FindAnyWidget("wgt_btn_mission_close") );
■■for (int i = 0; i < m_ListMissionsNames.Count(); ++i)
■■string mission_name = m_ListMissionsNames.Get(i);
■■m_WgtLstMsnList.AddItem(mission_name, NULL, 0);
| | |
■■return m_WgtRoot;
■private TStringArray GetMissionList()
■■string■file_name;
■■int ■file_attr;
■■int■■flags;
■■TStringArray list = new TStringArray;
 ■■m_PathToMissions = "$saves:\\missions";
■■string path_find_pattern = m_PathToMissions+"\\*"; //*/
■■FindFileHandle file_handler = FindFile(path_find_pattern, file_name, file_attr, flags);
■■bool found = true:
■■while ( found )
■■■if (file_attr & FileAttr.DIRECTORY)
■■■■list.Insert(file_name);
 }
 ■■■found = FindNextFile(file_handler, file_name, file_attr);;
| | |
■return list:
```

```
----- missionMainMenu.c - START ------
class MissionMainMenu extends MissionBase
■private UIScriptedMenu m_mainmenu;
■private CreditsMenu m_CreditsMenu;
■private ref DayZIntroScenePC m_IntroScenePC;
■private ref DayZIntroSceneXbox m_IntroSceneXbox;
private AbstractWave m_MenuMusic;
■bool m_NoCutscene;
■override void OnInit()
■{
■■if (!m_NoCutscene)
■■■CreateIntroScene();
——}
■■if (!m_mainmenu)
■■#ifdef PLATFORM_CONSOLE
■■■if ( g_Game.GetGameState() != DayZGameState.PARTY )
■■■■m_mainmenu = UIScriptedMenu.Cast( g_Game.GetUIManager().EnterScriptedMenu( MENU_TITL
#else
■■■■m_mainmenu = UIScriptedMenu.Cast( g_Game.GetUIManager().EnterScriptedMenu( MENU_MAIN
■■#endif
| ||
■■GetOnInputDeviceChanged().Insert(OnInputDeviceChanged);
■override void Reset()
■#ifdef PLATFORM_CONSOLE
■■■delete m_IntroSceneXbox;
■#else
■■■delete m_IntroScenePC;
■#endif
■■CreateIntroScene();
■DayZIntroScenePC GetIntroScenePC()
■#ifdef PLATFORM_CONSOLE
■■■Error("missionMainMenu->GetIntroScenePC on PLATFORM_CONSOLE is not implemented!");
■■return null;
■#else
■■■return m_IntroScenePC;
■#endif
|}
■DayZIntroSceneXbox GetIntroSceneXbox()
■■#ifdef PLATFORM_CONSOLE
■■■return m_IntroSceneXbox;
#else
```

■■Error("missionMainMenu->GetIntroScenePC on PLATEORM PC is not implemented!"):

```
// ----- missionServer.c - START ------
//! int time of the logout end
//: string uid of the player
typedef Param2<int, string> LogoutInfo;
class MissionServer extends MissionBase
■ref array<Man> m_Players;
■ref array<ref CorpseData> m_DeadPlayersArray;
■ref map<PlayerBase, ref LogoutInfo> m_LogoutPlayers;
■ref map<PlayerBase, ref LogoutInfo> m_NewLogoutPlayers;
■const int SCHEDULER_PLAYERS_PER_TICK = 5;
■int m_currentPlayer;
■int m_RespawnMode;
I// -----
■// ARTILLERY SOUNDS SETUP
■private float ■■■■m_ArtyBarrageTimer = 0;■■■// This is not to be edited in Init.c this is just to increme
■// Variables to be modified in Init.c
■protected bool ■■■■m_PlayArty = false; ■■■// Toggle if Off map artillery sounds are played
■protected float ■■■m_ArtyDelay = 0; ■■■■// Set how much time there is between two barrages (in sec ■protected int ■■■■m_MinSimultaneousStrikes = 0; ■// The MIN of simultaneous shots on the map (Will
■protected int ■■■■m_MaxSimultaneousStrikes = 0; ■// The MAX of simultaneous shots on the map (Wi
■protected ref array<vector> m_FiringPos; ■■■■■// Where we should fire from. On Init set the relevant of
■//All Chernarus firing coordinates
■protected const ref array<vector> CHERNARUS_STRIKE_POS =
■■"-500.00 165.00 5231.69"
=="-500.00 300.00 9934.41"
10406.86 192.00 15860.00",
4811.75 370.00 15860.00
■■"-500.00 453.00 15860.00"
■};
■//All livonia firing coordinates
protected const ref array<vector> LIVONIA_STRIKE_POS =
■■"7440.00 417.00 -500.00"
■■"-500.00 276.00 5473.00"
■■"-500.00 265.00 9852.00"
4953.00 240.00 13300.00
■■"9620.00 188.00 13300.00"
13300.00 204.00 10322.00,
13300.00 288.00 6204.00",
13300.00 296.00 -500.00
■// END OF ARTILLERY SETUP
I// -----
■PlayerBase m_player;
■MissionBase m_mission;
■PluginAdditionalInfo m_moduleDefaultCharacter;
```

■void MissionServer()

```
// ----- MKII.c - START -----
class MKII_Base : Pistol_Base
■override RecoilBase SpawnRecoilObject()
■ return new MkiiRecoil(this);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■■super.OnDebugSpawn();
};
// ----- MKII.c - END -----
// -----
// -----
// ----- MkiiRecoil.c - START -----
// -----
class MkiiRecoil: RecoilBase
■override void Init()
 ■■vector point_1;
 vector point_2;
■■vector point_3;
■■vector point_4;
■ point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRand
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 1;
■■m_MouseOffsetRangeMin = 45;//in degrees min
■■m_MouseOffsetRangeMax = 80;//in degrees max
■■m_MouseOffsetDistance = 0.65;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.5;//[0..1] a time it takes to move the mouse the required distance rela
■■m_CamOffsetDistance = 0.02;
■■m_CamOffsetRelativeTime = 1;
```

// ----- MkijRecoil c - FND ----------

```
----- ModifierBase.c - START ------
enum eModifiersTickType//bitmask
■TICK ■■■■= 1,
■ACTIVATE_CHEĆK ■■■= 2,
■DEACTIVATE_CHECK ■■= 4,
class ModifierBase
\blacksquareint\blacksquare
■ModifiersManager ■m_Manager;//the manager instance
■string ■■■■m_System = "Modifiers";
■float ■■■■m_ActivatedTime;//overall time this modifier was active
■bool■■■■m_TrackActivatedTime;//should this modifier track overall time it was active?
■bool■■■■m_IsPersistent;//is this modifier saved to the DB?
■PlayerBase■■m_Player;
■float■■■m_TickIntervalInactive = 5;
■float■■■m_TickIntervalActive = 3;
■bool■■■■m_lsActive;
■bool■■■■m_ShouldBeActive;
■float■■■m_AccumulatedTimeActive;
■float■■■m_AccumulatedTimeInactive;
■float■■■m_LastTickedActive;
■int ■■■■m_TickType = (eModifiersTickType.TICK | eModifiersTickType.ACTIVATE_CHECK | eModifier
■float■■■m_LastTickedInactive;
■bool■■■■m_lsLocked = false;
■EActivationType■■m_ActivationType;
■eModifierSyncIDs■m_SyncID;//max 32 synced modifiers supported, 0 == no sync
■PluginPlayerStatus ■■m_ModulePlayerStatus;
■void ModifierBase()
■{
■■Class.CastTo(m_ModulePlayerStatus, GetPlugin(PluginPlayerStatus));
■void InitBase(PlayerBase player, ModifiersManager manager)
■■m Manager ■■■■= manager:
■■m_Player ■■■= player;
■■Init();
•}
■void Init(){}
■PlayerBase GetPlayer()
■ return m_Player;
■}
■bool IsPersistent()
■■return m_IsPersistent;
```

■void MakeParamObjectPersistent(Param object)

```
// ----- ModifiersManager.c - START ------
//max 32 synced modifiers supported
enum eModifierSynclDs
■MODIFIER_SYNC_WOUND_INFECT_1 ■= 0x00000001,
■MODIFIER_SYNC_WOUND_INFECT_2 ■= 0x00000002,
■MODIFIER_SYNC_CONTAMINATION ■= 0x00000004,//stage1
■MODIFIER_SYNC_CONTAMINATION2 ■= 0x00000008,//stage2 and stage3 share the same sync id
■MODIFIER_SYNC_ZONE_EXPOSURE ■= 0x00000010,
■MODIFIER_SYNC_DROWNING ■■■= 0x00000020,
\blacksquare//0x00000040,
\blacksquare//0x00000080.
\blacksquare//0x00000100.
\blacksquare//0x00000200,
\blacksquare//0x00000400.
\blacksquare//0x00000800,
\blacksquare//0x00001000.
■LAST_INDEX,
};
enum EActivationType {
■TRIGGER_EVENT_OFF,
■TRIGGER_EVENT_ON_ACTIVATION,
■TRIGGER_EVENT_ON_CONNECT
};
const int DEFAULT_TICK_TIME_ACTIVE = 3;
const int DEFAULT_TICK_TIME_ACTIVE_SHORT = 1;
const int DEFAULT_TICK_TIME_INACTIVE = 3; const int DEFAULT_TICK_TIME_INACTIVE_LONG = 10;
class ModifierDebugObj
■string ■m_Name;
■int ■m_ID;
■bool ■m_lsActive;
■bool m_lsLocked;
■void ModifierDebugObj(int id, string name, bool active, bool locked)
\blacksquare \blacksquare m_Name = name;
\blacksquare \blacksquare m ID = id;
■■m_IsActive = active;
■■m_lsLocked = locked;
■string GetName()
■■return m_Name;
■}
■int GetID()
```

• {

■return m ID:

```
// ----- ModInfo.c - START -----
class ModInfo
mproto owned string GetName();
■proto owned string GetPicture();
■proto owned string GetLogo();
■proto owned string GetLogoSmall();
■proto owned string GetLogoOver();
■proto owned string GetTooltip();
■proto owned string GetOverview();
■proto owned string GetAction();
■proto owned string GetAuthor();
proto owned string GetVersion();
■proto bool GetDefault();
■proto bool GetIsDLC();
■proto bool GetIsOwned();
■proto void GoToStore();
// -----
// ----- ModInfo.c - END -----
// -----
// ----- ModLoader.c - START ------//
class ModLoader
■protected static bool■■■■■■■m_Loaded;
■protected static ref array<ref ModStructure>■m_Mods;
■static array<ref ModStructure> GetMods()
■■//if(!m_Loaded)
■■■LoadMods();
■■return m_Mods;
|
■static void LoadMods()
m_Mods = new array<ref ModStructure>;
■■int mod_count = GetGame().ConfigGetChildrenCount( "CfgMods" );
\blacksquarefor(int i = 2; i < mod_count; i++)
----
■■string mod_name;
■■■GetGame().ConfigGetChildName( "CfgMods", i, mod_name );
■■■m_Mods.lnsert( new ModStructure( i, "CfgMods" + mod_name ) );
| | |
■}
```

```
----- ModsMenuDetailed.c - START ------
class ModsMenuDetailed extends ScriptedWidgetEventHandler
■protected Widget■■■■■■■■■■m_Root;
■protected Widget■■■■■■■■■■m_CloseButton;
■protected ScrollWidget■■■■■■■■■■■■■Scroll;
■protected ref map<ref ModInfo, ref ModsMenuDetailedEntry>■m_Data;
■protected ModInfo■■■■■■■■■■■m_Highlighted;
■//protected MainMenu■■■■■■■■■■■■■■■■■m_Menu;
■protected UIScriptedMenu■■■■■■■■■■■ Menu;
■protected ModsMenuTooltip■■■■■■■■■m_Tooltip;
■protected ref Timer■■■■■■■■■■■■■■■■■TooltipTimer;
protected ModInfo
■void ModsMenuDetailed(array<ref ModInfo> data, Widget parent, ModsMenuTooltip tooltip, UIScriptedM
•{
■ m_Root = GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/mods_menu/mods_menu_o
■■m_Content = m_Root.FindAnyWidget("ModsDetailedContent");
■■m_Scroll = ScrollWidget.Cast(m_Root.FindAnyWidget("ModsDetailedScroller"));
■■m_CloseButton = m_Root.FindAnyWidget("ModsDetailedHeaderButton");
■■m_Menu = menu_parent;
■■m_Data = new map<ref ModInfo, ref ModsMenuDetailedEntry>;
■■m_Tooltip = tooltip;
■■m_Root.SetHandler(this);
■■LoadEntries(data);
■}
■void ~ModsMenuDetailed()
■■delete m_Root;
■}
■void Open()
■■if(!m_Root.IsVisible())
■■■m_Scroll.VScrollToPos(0);
■■m_Root.Show( true );
■}
■void Close()
■■Highlight( null );
■m_Root.Show( false );
■bool IsOpen()
■■return m_Root.IsVisible();
■}
■ModInfo GetHighlighted()
```

■return m Highlighted:

```
class ModsMenuDetailedEntry extends ScriptedWidgetEventHandler
■protected Widget■■m_Root;
■protected Widget■■m_Detail;
■//Header
■protected ImageWidget■■m_IconSmall;
■protected ImageWidget■■m_IconCollapse;
■protected TextWidget■■m_Name;
■//Left Side Panel
■protected ImageWidget■■m_IconBig;
■protected MultilineTextWidget■■m_Author;
■protected TextWidget■m_Version;
■protected RichTextWidget■m_ActionWebsite;
■protected RichTextWidget■m_ActionPurchase;
■//Description Panel
■protected RichTextWidget■m_Description;
■protected ModInfo■■■m_Data;
■protected ModsMenuDetailed m_ParentMenu;
■protected bool ■■■■m_IsOpen;
■void ModsMenuDetailedEntry(ModInfo data, Widget parent, ModsMenuDetailed parent_menu)
■{
m_Root = GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/mods_menu/mods_menu_
■■m_Detail = m_Root.FindAnyWidget("DetailContainer");
m_IconSmall = ImageWidget.Cast(m_Root.FindAnyWidget("IconSmall"));
■■m_IconCollapse = ImageWidget.Cast(m_Root.FindAnyWidget("collapse_button"));
■■m_lconCollapse.LoadImageFile(1, "set:dayz_gui image:icon_open");
■■m_Name = TextWidget.Cast(m_Root.FindAnyWidget("Name"));
m IconBig = ImageWidget.Cast(m Root.FindAnyWidget("IconBig"));
m_Author = MultilineTextWidget.Cast(m_Root.FindAnyWidget("Author"));
■■m_Author.SetLineBreakingOverride(LinebreakOverrideMode.LINEBREAK_WESTERN);
■■m_Version = TextWidget.Cast(m_Root.FindAnyWidget("Version"));
■■m_ActionWebsite = RichTextWidget.Cast(m_Root.FindAnyWidget("Link"));
m_ActionPurchase = RichTextWidget.Cast(m_Root.FindAnyWidget("Purchase"));
■■m_Description = RichTextWidget.Cast(m_Root.FindAnyWidget("Description"));
■m_Data = data;
■■m_ParentMenu = parent_menu;
■■m_Root.SetHandler(this);
■■LoadData();
■void ~ModsMenuDetailedEntry()
■■delete m Root:
```

■\Midaet Get\Midaet()

```
----- ModsMenuSimple.c - START ------
class ModsMenuSimple extends ScriptedWidgetEventHandler
■protected Widget■■■■■■■■■m_Root;
■protected Widget■■■■■■■■■m_MoreButton;
■protected ref map<ModInfo, ref ModsMenuSimpleEntry>■■m_Data;
■protected ModsMenuDetailed■■■■■■■ DetailMenu:
■void ModsMenuSimple(array<ref ModInfo> data, Widget parent, ModsMenuDetailed detail_menu)
m_Root = GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/mods_menu/mods_menu_s
■■m_MoreButton = m_Root.FindAnyWidget("ModMore");
■■m_Data = new map<ModInfo, ref ModsMenuSimpleEntry>;
■■m_DetailMenu = detail_menu;
■■m_Root.SetHandler(this);
■■LoadEntries(data);
■}
■void ~ModsMenuSimple()
■■delete m_Root;
■void LoadEntries(array<ref ModInfo> data)
■■int count;
■■if( data.Count() > 13 )
■■■count = 13;
■■m_Root.FindAnyWidget("ModMore").Show(true);
| | |
■■else
■■{
Example 2 count = data.Count();
■■m_Root.FindAnyWidget("ModMore").Show(false);
| | |
■■bool has_mods = false;
\blacksquarefor (int i = count - 1; i >= 0; i--)
■■■ref ModsMenuSimpleEntry entry = new ModsMenuSimpleEntry(data.Get(i), i, m_Root, this);
■■m_Data.Insert(data.Get(i), entry);
■■■has_mods = ( has_mods || !data.Get(i).GetIsDLC() );
■■m_Root.FindAnyWidget("mods_separator_panel").Show( has_mods );
■}
■void Select( ModInfo mod )
■m_DetailMenu.Open();
■■m_DetailMenu.Highlight( mod );
■override bool OnMouseButtonUp(Widget w, int x, int y, int button)
■if( w == m_MoreButton )
```

```
// ----- ModsMenuSimpleEntry.c - START ------
class ModsMenuSimpleEntry extends ScriptedWidgetEventHandler
■protected ButtonWidget■■m_ModButton;
■protected ImageWidget■■m_Icon;
■protected Widget■■m_Hover;
■protected bool■■■■m_HasLogoOver;
■protected ModInfo■■■m_Data;
■protected ModsMenuSimple■m_ParentMenu;
■void ModsMenuSimpleEntry(ModInfo data, int index, Widget parent, ModsMenuSimple parent_menu)
[
■■m_ModButton■■= ButtonWidget.Cast(GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_u
■■m_lcon■■= ImageWidget.Cast(m_ModButton.FindAnyWidget("Icon"));
■■m_Hover■■■= m_ModButton.FindAnyWidget("Overlay");
■■m_Data■■= data;
■■m_ParentMenu■= parent_menu;
■■if (data.GetIsDLC())
----
■■bool isOwned = data.GetIsOwned();
■■ m_ModButton.SetSort( index );
■■ m_ModButton.FindAnyWidget("ModOwnership").Show( true );
■■ m_ModButton.FindAnyWidget("Owned").Show( isOwned );
■■■m_ModButton.FindAnyWidget("Unowned").Show(!isOwned);
——}
■■else
----
■■■m_ModButton.SetSort(index + 5);
■■m_ModButton.SetHandler(this);
■■LoadData();
■}
■void ~ModsMenuSimpleEntry()
■■delete m_ModButton;
■void LoadData()
■■string logo = m_Data.GetLogo();
string logo_over = m_Data.GetLogoOver();
■■if (logo != "")
■■■m_lcon.LoadImageFile(0, logo);
•
else
■■■//Load default image
| | |
```

■■if (logo_over != "")

```
// ----- ModsMenuTooltip.c - START -----
class ModsMenuTooltip extends ScriptedWidgetEventHandler
■protected Widget■■m_Root;
■protected RichTextWidget■m_Text;
■void ModsMenuTooltip(Widget parent)
■ m_Root = GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/mods_menu/mods_tooltip.l
■ m_Text = RichTextWidget.Cast(m_Root.FindAnyWidget("TooltipText"));
■}
■void ~ModsMenuTooltip()
■■delete m_Root;
■void ShowTooltip(ModInfo mod_ref)
■■m_Root.Show(true);
■■m_Text.SetText(mod_ref.GetTooltip());
■■int x, y;
\blacksquare GetMousePos(x,y);
■■m_Root.SetPos(x, y);
■■m_Text.Update();
■■m_Root.Update();
■void HideTooltip()
■m_Root.Show(false);
■■m_Root.SetPos(0, 0);
■■m_Text.SetText("");
// -----
// ----- ModStructure.c - START -----
// -----
class ModStructure
■protected int■m_ModIndex;
■protected string■m_ModPath;
■protected string m_ModName;

    ■protected string■m_ModLogo;
    ■protected string■m_ModLogoSmall;
    ■protected string■m_ModLogoOver;
    ■protected string■m_ModActionURL;
```

■nrotected string■m ModToolting

```
// ----- Morphine.c - START -----
class Morphine: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionInjectMorphineTarget);
■■AddAction(ActionInjectMorphineSelf);
■override void OnApply(PlayerBase player)
■■if (!player)
■■return;
■■if( player.GetModifiersManager().IsModifierActive(eModifiers.MDF_MORPHINE ) )//effectively resets the
■■■player.GetModifiersManager().DeactivateModifier( eModifiers.MDF_MORPHINE );
■■player.GetModifiersManager().ActivateModifier( eModifiers.MDF_MORPHINE );
};
// ----- Morphine.c - END -----
// ----- MorphineMdfr.c - START ------//
class MorphineMdfr: ModifierBase
\blacksquareconst int LIFETIME = 60;
■override void Init()
■■m_TrackActivatedTime = true;
■■m_IsPersistent = true;
■■m_ID ■■■■= eModifiers.MDF_MORPHINE;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= 1;
■■DisableActivateCheck();
■}
■override bool ActivateCondition(PlayerBase player)
■■return false;
■override void OnReconnect(PlayerBase player)
■ OnActivate(player);
```

```
/**@class■■Mosin9130
* @brief■■base for Mosin
* @NOTE■■name copies config base class
class Mosin9130_Base extends BoltActionRifle_InnerMagazine_Base
■void Mosin9130_Base ()
■}
■override bool CanEnterIronsights()
■■ItemOptics optic = GetAttachedOptics();
■■if (optic && PUScopeOptic.Cast(optic))
■■return true:
■■return super.CanEnterIronsights();
■}
class Mosin9130 extends Mosin9130_Base
■override RecoilBase SpawnRecoilObject()
■■return new MosinRecoil(this);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■■super.OnDebugSpawn();
■■GameInventory inventory = GetInventory();
■■inventory.CreateInInventory("PUScopeOptic");
■■inventory.CreateInInventory("Mosin_Compensator");■
■EntityAl entity;
■■if ( Class.CastTo(entity, this) )
■■ entity.SpawnEntityOnGroundPos("Ammo_762x54", entity.GetPosition());
| | |
■}
class SawedoffMosin9130_Base extends Mosin9130_Base
■override RecoilBase SpawnRecoilObject()
return new MosinSawedOffRecoil(this);
};
```

// ----- Mosin9130.c - END ------

```
// ----- MosinRecoil.c - START ------
class MosinRecoil: RecoilBase
■override void Init()
■{
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRan
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.125;■
■■m_MouseOffsetRangeMin = 80;//in degrees min
■■m_MouseOffsetRangeMax = 100;//in degrees max
■■m_MouseOffsetDistance = 1.8;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.0625;//[0..1] a time it takes to move the mouse the required distance
 ■■m_CamOffsetDistance = 0.02;
■■m_CamOffsetRelativeTime = 0.125;
}
// -----
// ----- MosinRecoil.c - END -----
// ----- MosinSawedOffRecoil.c - START -----
class MosinSawedOffRecoil: RecoilBase
■override void Init()
 vector point_1;
 ■■vector point_2;
  vector point_3;
■■vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSy
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSpoint_4[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGenerator
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
```

■■m HandsOffsetRelativeTime – 0.125

```
class Mosin_Bayonet extends Inventory_Base
■override bool IsMeleeFinisher()
■ return true;
■override array<int> GetValidFinishers()
■ return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (parent.FindAttachmentBySlotName("suppressorlmpro") == null && parent.FindAttachmentBySlotNa
■■return true;
| ||
■■return false;
■override void OnWasAttached(EntityAl parent, int slot_id)
■■super.OnWasAttached(parent, slot_id);
■■if( parent.lsWeapon() )
■■■parent.SetBayonetAttached(true,slot_id);
■}
■override void OnWasDetached(EntityAl parent, int slot_id)
■ super.OnWasDetached(parent, slot_id);
■■if( parent.lsWeapon() )
■■■parent.SetBayonetAttached(false);
■override void SetActions()
■■super.SetActions();
AddAction(ActionBurnSewTarget);
AddAction(ActionUnrestrainTarget);
AddAction(ActionBurnSewSelf);
■■AddAction(ActionDigWorms);
■}
// ----- Mosin_Bayonet.c - END -----
```

```
class Mosin_Compensator extends ItemSuppressor
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (parent.FindAttachmentBySlotName("suppressorlmpro") == NULL && parent.FindAttachmentBySlotl
■■return true;
■■}
■■return false;
// ----- Mosin_Compensator.c - END ------
// ----- MotoHelmet_ColorBase.c - START ------
class MotoHelmet_ColorBase extends HelmetBase
moverride array<int> GetEffectWidgetTypes()
■ return {EffectWidgetsTypes.MOTO_OCCLUDER/*,EffectWidgetsTypes.MOTO_BREATH*/};
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■Clothing eyewear = Clothing.Cast(parent.FindAttachmentBySlotName("Eyewear"));
■■if ( eyewear && eyewear.ConfigGetBool("isStrap") )
■■■return false;
}
■■Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if ( mask && mask.ConfigGetBool("noHelmet") ) //TODO
■■■return false;
•
■■return true;
■override bool IsObstructingVoice()
■■return true;
■override int GetVoiceEffect()
```

■■return VoiceEffectObstruction:

```
// ----- MouflonSteakMeat.c - START ------//
class MouflonSteakMeat extends Edible_Base
■override bool CanBeCooked()
■return true;
■override bool CanBeCookedOnStick()
■ return true;
■override bool IsMeat()
■ return true;
■override bool CanDecay()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatMeat);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
// ----- MouflonSteakMeat.c - END ------
// -----
// ----- MountainBag_ColorBase.c - START ------
class MountainBag_ColorBase extends Clothing {}; class MountainBag_Red extends MountainBag_ColorBase {}; class MountainBag_Blue extends MountainBag_ColorBase {};
class MountainBag_Orange extends MountainBag_ColorBase {};
class MountainBag_Green extends MountainBag_ColorBase {};
// ----- MountainBag_ColorBase.c - END ------
```

```
// ----- MouseBinding.c - START -----
class MouseBinding
■private int■■m_ActiveUIMenuID;
■private int■■m_MouseButton;
■private int■■m_MouseEvent;
■private string■m_CallbackTarget;
■private string m_CallbackFunction;■private string m_InfoKeys;
■private string■m_InfoDescription
■void MouseBinding(int ui_id, int mouse_button, int mouse_event, string call_target, string call_function,
■■m_ActiveUIMenuID■= ui_id;
■■m_MouseButton■■= mouse_button;
■■m_MouseEvent■= mouse_event;
■■m_CallbackTarget■= call_target;
■■m_CallbackFunction■= call_function;
■■m_InfoKeys■■= info_bind;
■■m_InfoDescription■= info_description;
■}
■int GetUIMenuID()
■■return m_ActiveUIMenuID;
■}
■int GetButtonID()
■■return m_MouseButton;
■int GetMouseEvent()
■■return m_MouseEvent;
■string GetCallbackTarget()
■■return m_CallbackTarget;
•}
■string GetCallbackFunction()
■■return m_CallbackFunction;
■string GetInfoBind()
■■return m_InfoKeys;
■string GetInfoDescription()
■■return m_InfoDescription;
```

```
// ----- MouseButtonInfo.c - START -----
class MouseButtonInfo
■private int■■m_ButtonID;
■private int■■m_TimeLastPress;
■private int■■m_TimeLastRelease;
■void MouseButtonInfo(int button)
■ ButtonID ■ button;
■■m_TimeLastPress■■= -1;
■■m_TimeLastRelease■= -1;
■int GetButtonID()
■ return m_ButtonID;
■int GetTimeLastPress()
■■return m_TimeLastPress;
■int GetTimeLastRelease()
■ return m_TimeLastRelease;
■void Press()
m_TimeLastPress = GetGame().GetTime();
■void Release()
m_TimeLastRelease = GetGame().GetTime();
■bool IsButtonDown()
■if ( m_TimeLastRelease < m_TimeLastPress )</p>
■ return true;
■■return false;
■}
// ----- MouseButtonInfo.c - END -----
```

```
// ----- MouthRag.c - START -----
class MouthRag extends Clothing
■bool m_IncomingLambdaChange;
■void MouthRag()
m_IncomingLambdaChange = false;
■override bool CanDetachAttachment(EntityAl parent)
■■return m_IncomingLambdaChange;
■override bool IsObstructingVoice()
■ return true;
■}
■override int GetVoiceEffect()
■ return VoiceEffectObstruction;
■void SetIncomingLambaBool(bool state)
m_IncomingLambdaChange = state;
■bool GetIncomingLambdaBool()
■■return m_IncomingLambdaChange;
// ----- MouthRag.c - END ------//
// -----
// ----- MP133.c - START ------
enum PumpShotgunAnimState
■DEFAULT ■■■= 0, ■///< default weapon state, closed and discharged
};
enum PumpShotgunStableStateID
■UNKNOWN■■= 0,
■Empty■■= 1,
■Fireout■■= 2,
■Loaded■■= 3.
```

■ lammed■■- 4

```
// ----- Mp133Recoil.c - START -----
class Mp133Recoil: RecoilBase
■override void Init()
■{
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncM
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.125;
■■m_MouseOffsetRangeMin = 70;//in degrees min
■■m_MouseOffsetRangeMax = 110;//in degrees max
■■m_MouseOffsetDistance = 3;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.0625; //0.03;//[0..1] a time it takes to move the mouse the required dis
■■m_CamOffsetDistance = 0.05;
■■m_CamOffsetRelativeTime = 0.125;
}
// -----
// ----- Mp133Recoil.c - END -----
// -----
// ----- MP5.c - START -----
/**@class■MP5K_Base
    @brief■basic mp5 submachine gun
class MP5K_Base : RifleBoltFree_Base
■void MP5K_Base ()
■override RecoilBase SpawnRecoilObject()
■■return new Mp5kRecoil(this);
■override int GetWeaponSpecificCommand(int weaponAction, int subCommand)
```

```
// ----- Mp5kRecoil.c - START -----
class Mp5kRecoil: RecoilBase
■override void Init()
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncMan
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.25;
■■m_MouseOffsetRangeMin = 60;//in degrees min
■■m_MouseOffsetRangeMax = 120;//in degrees max
■■m_MouseOffsetDistance = 1.25;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.5;//[0..1] a time it takes to move the mouse the required distance rela
■■m_CamOffsetDistance = 0.0075;
■■m_CamOffsetRelativeTime = 1;
}
// -----
// ----- Mp5kRecoil.c - END -----
// -----
// ----- MP5_Compensator.c - START -----
class MP5_Compensator extends ItemSuppressor
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (!parent.FindAttachmentBySlotName("pistolMuzzle"))
•
■ return true;
■■}
■■return false;
■}
// ----- MP5_Compensator.c - END -----
```

// -----

```
// ----- MP5_PlasticHndgrd.c - START ------
class MP5_PlasticHndgrd extends Inventory_Base
■override bool CanDetachAttachment( EntityAl attachment )
■ return false;
/// ----- MP5_PlasticHndgrd.c - END -----
// ----- MP5_RailHndgrd.c - START -----
class MP5_RailHndgrd extends Inventory_Base
■override bool CanDetachAttachment (EntityAl parent)
■ if (Weapon_Base.Cast(parent) && parent.FindAttachmentBySlotName("weaponFlashlight")/*.IsKindOf
■ ireturn false;
■ return true;
■}
// -----
// ----- MP5_RailHndgrd.c - END -----
// ----- MushroomBase.c - START ------
class MushroomBase: Edible_Base
override bool CanBeCookedOnStick()
■ return true;
■override bool CanBeCooked()
■■return true;
```

■override bool IsMushroom()

```
...// ----- MuzzleFlashLight.c - START ------
class MuzzleFlashLight extends PointLightBase
■static float m_Lifetime = 0.04;
■void MuzzleFlashLight()
■■SetLifetime(m_Lifetime);
■■FadeIn(m_Lifetime * 0.5);
■■SetFadeOutTime(m_Lifetime * 0.5);
■■SetVisibleDuringDaylight(true);
■■SetRadiusTo( 15 );
■■SetBrightnessTo(1);
■■SetCastShadow(false);
■SetAmbientColor(0.76, 0.68, 0.31);
■SetDiffuseColor(0.76, 0.68, 0.31);
■■SetFlareVisible(false);
■}
class MuzzleFlashLight_1 extends PointLightBase
■static float m_Lifetime = 0.08;
■void MuzzleFlashLight_1()
■■SetLifetime( m_Lifetime );
■■FadeIn( m_Lifetime * 0.2 );
■■SetFadeOutTime( m_Lifetime * 0.2 );
■■SetVisibleDuringDaylight( true );
■■SetRadiusTo(17);
■■SetBrightnessTo( 0.5 );
■■SetCastShadow(false);
■■SetAmbientColor( 0.56, 0.42, 0.3 );
■SetDiffuseColor( 0.56, 0.42, 0.3 );
■■SetFlareVisible(false);
■}
class MuzzleFlashLight_2 extends PointLightBase
■static float m_Lifetime = 0.01;
■void MuzzleFlashLight_2()
■■SetLifetime( m_Lifetime );
■■FadeIn( m_Lifetime * 0.1 );
■■SetFadeOutTime( m_Lifetime * 0.1 );
■■SetVisibleDuringDaylight( true );
■■SetRadiusTo( 12 );
■■SetBrightnessTo( 0.2 );
■SetCastShadow(false);
■SetAmbientColor(0.36, 0.32, 0.13);
■SetDiffuseColor( 0.36, 0.32, 0.13 );
■■SetFlareVisible( false );
```

```
// ----- Nail.c - START ------
class Nails extends Inventory_Base
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■ cònst int SLOTS ARRAY = 8:
■■bool is_barrel = false;
■■bool is_opened_barrel = false;
■■bool slot_test = true;
■■string slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Plant", "OakBark", "BirchBark", "Lime", "Distring slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Plant", "OakBark", "BirchBark", "Lime", "Distring slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Plant", "OakBark", "BirchBark", "Lime", "Distring slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Plant", "OakBark", "BirchBark", "Lime", "Distring slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Plant", "OakBark", "BirchBark", "Lime", "Distring slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Plant", "OakBark", "BirchBark", "Lime", "Distring slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Plant", "OakBark", "BirchBark", "Lime", "Distring slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Plant", "OakBark", "BirchBark", "Lime", "Distring slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Plant", "OakBark", "BirchBark", "Lime", "Distring slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Plant", "Distring slot_names[SLOTS_ARRAY] = { "BerryR", "BirchBark", 
■■// is barrel
■■if ( parent.lsKindOf("Barrel_ColorBase") )
 ■■■is_barrel = true;
| | |
■■// is opened barrel■■■■
■■if (is_barrel && parent.GetAnimationPhase("Lid") == 1)
■■■is_opened_barrel = true;
■■// all of the barrel slots are empty
■■for ( int i = 0; i < SLOTS_ARRAY ; i++ )
■■■if ( parent.FindAttachmentBySlotName(slot_names[i]) != NULL )
 ■■■slot_test = false;
■■■■break;
——}
■■if ( ( is_opened_barrel && slot_test ) || !is_barrel )
■■{
■ return true;
--
■■return false;
■}
■override bool CanDetachAttachment( EntityAl parent )
■{
■■bool is_barrel = false;
■■bool is_opened_barrel = false;
■■// is barrel
■■if (parent.lsKindOf("Barrel_ColorBase"))
■■■is_barrel = true;
■■}
■■// is opened barrel■■■■
■■if ( is_barrel && parent.GetAnimationPhase("Lid") == 1 )
```

■■■is_opened_barrel = true;

// NailedBaseballBat.c - START //
class NailedBaseballBat extends Inventory_Base { }
// // NailedBaseballBat.c - END //
// // NBCBootsBase.c - START //
class NBCBootsBase extends Clothing {}; class NBCBootsGray extends NBCBootsBase {};
// // NBCBootsBase.c - END //
// // NBCGloves_ColorBase.c - START //
class NBCGloves_ColorBase extends Clothing {}; class NBCGlovesGray extends NBCGloves_ColorBase {};
// // NBCGloves_ColorBase.c - END //
// // NBCHood.c - START //
class NBCHood extends Clothing { }
// // NBCHood.c - END

```
// ----- NBCJacketBase.c - START ------
class NBCJacketBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class NBCJacketGray extends NBCJacketBase {};
// ----- NBCJacketBase.c - END ------
// ----- NBCPantsBase.c - START -----
class NBCPantsBase extends Clothing
■override void SetActions()
■isuper.SetActions();
■■AddAction(ActionWringClothes);
class NBCPantsGray extends NBCPantsBase {};
// -----
// ----- NBCPantsBase.c - END -----
// ----- NerveAgent.c - START ------//
class NerveAgent extends AgentBase
■override void Init()
■m_Type ■■■■ eAgents.NERVE_AGENT;
■■m_Invasibility ■■■= 0;
■■m_TransferabilityIn■■= 0.1;
■■m_TransferabilityOut■= 1;
■■m_TransferabilityAirOut■= 0;
■■m_AntibioticsResistance = 0.5;//override in a func. GetAntiboticsResistance()
■■m_MaxCount ■■■= 500;
■■m_Potency ■■■■= EStatLevels.CRITICAL;
■■m_DieOffŚpeed ■■■= 0.1;
```

```
// ----- NioshFaceMask.c - START ------
class NioshFaceMask: Clothing
■override bool CanPutAsAttachment( EntityAl parent )
■■if (!super.CanPutAsAttachment(parent)) {return false;}
■■Clothing headgear = Clothing.Cast(parent.FindAttachmentBySlotName("Headgear"));
■■if (headgear && headgear.ConfigGetBool("noMask"))
■■ return false;
——}
■ return true;
// ----- NioshFaceMask.c - END -----
// -----
// ----- Noise.c - START -----
class NoiseSystem
■private void NoiseSystem() {}
private void ~NoiseSystem() {}
■proto void AddNoise(EntityAl source_entity, NoiseParams noise_params, float external_strenght_multipl ■proto void AddNoisePos(EntityAl source_entity, vector pos, NoiseParams noise_params, float external_strength_multiple.
//! Will make a noise at that position which the AI will "see" for the duration of 'lifetime'
■proto void AddNoiseTarget(vector pos, float lifetime, NoiseParams noise_params, float external_strength
class NoiseParams
■void NoiseParams()
mproto native void Load(string noise_name);
■proto native void LoadFromPath(string noise_path);
// ----- Noise.c - END -----
```

```
// ----- NoteMenu.c - START ------
class NoteMenu extends UIScriptedMenu
■protected MultilineEditBoxWidget m_edit;
■protected HtmlWidget m_html;
■protected ButtonWidget m_confirm_button;
■protected ItemBase m_Paper;
■protected EntityAl m_Pen;
■protected bool m_lsWriting;■//protected int m_Handwriting;
■protected int m_SymbolCount;
■protected string m_PenColor; //color in hex-code format, transferred as string. Could be transferred as in
■void NoteMenu()
{
MissionGameplay mission = MissionGameplay.Cast(GetGame().GetMission());
■If (mission)
■■■IngameHud hud = IngameHud.Cast(mission.GetHud());
■■if (hud)
■■■hud.ShowHudUI(false);
---
-
■void ~NoteMenu()
MissionGameplay mission = MissionGameplay.Cast(GetGame().GetMission());
■If (mission)
■■■IngameHud hud = IngameHud.Cast(mission.GetHud());
■■■if (hud)
■■■hud.ShowHudUI(true);
| | |
■override void InitNoteRead(string text = "")
■{
■■m_IsWriting = false;
■■if (m_edit)
■■m_edit.Show(false);
| | |
■if (m_html)
■■■//TODO add text formating here. Just text string for now
■■■if (text)
■■■■m_html.Show(true);
■■■■m_html.SetText(text);
SymbolCount = text.Length(); //string.LengthUtf8() ?
\blacksquare html.SetText("<html><body>" + text + "</body></html>");
}
```

1

```
// ----- NoticeSpacer.c - START ------
class NoticeSpacer: AutoHeightSpacer
■override bool OnEvent(EventType eventType, Widget target, int parameter0, int parameter1)
■■Update();
■■return super.OnEvent(eventType, target, parameter0, parameter1);
};
// ----- NoticeSpacer.c - END ------
// ----- NotificationData.c - START -----
class NotificationData
■string m_lcon;
■string m_TitleText;
■string m_DescriptionText;
■void NotificationData( string icon, string title_text, string desc_text = "")
■ m_lcon = icon;
■■m TitleText = title text;
■■if( desc_text != "" )
■■m_DescriptionText = desc_text;
■}
// ----- NotificationData.c - END ------
// ----- NotificationSystem.c - START ------
const static float NOTIFICATION_FADE_TIME = 3.0;
enum NotificationType
■FRIEND_CONNECTED,
■INVITE_FAIL_SAME_SÉRVER,
■JOIN_FAIL_GET_SESSION,
■CONNECT_FAIL_GENERIC,
```

■//Please add tynes hefore this item.

```
// ----- NotificationUI.c - START -----
class NotificationUI
■protected ref Widget■m_Root;
■protected ref Widget m_Spacer;
■protected ref Widget m_VoiceContent;
■protected ref Widget■m_NotificationContent;
 ■protected ref map<NotificationRuntimeData, Widget>■m_Notifications;
 ■protected ref map<string, Widget>■■■■■m_VoiceNotifications;
■protected float■■■■■■■■■m_Width;
■protected float
■■■■■■■■■m_CurrentHeight;
■ protected float ■■■■■■■■■ TargetHeight:
■protected ref map<string, Widget>■■■■m_WidgetTimers;
■void NotificationUI()
■ m_Root ■■■■ GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifications/notifica
■■m_Spacer■■■= m_Root.FindAnyWidget( "NotificationSpacer");
■■m_VoiceContent■■■= m_Root.FindAnyWidget( "VoiceContent" );
■■m_NotificationContent■= m_Root.FindAnyWidget( "NotificationContent" );
■■m_Notifications■■■= new map<NotificationRuntimeData, Widget>;
■■m_VoiceNotifications■= new map<string, Widget>;
■■m_WidgetTimers■■■= new map<string, Widget>;
■■NotificationSystem ntfSys = NotificationSystem.GetInstance();
■■if (ntfSys)
----
■■■ntfSys.m_OnNotificationAdded.Insert( AddNotification );
■■■ntfSys.m_OnNotificationRemoved.Insert( RemoveNotification );
--
|
■void ~NotificationUI()
■■NotificationSystem ntfSys = NotificationSystem.GetInstance();
■■if (ntfSys)
■■■ntfSys.m_OnNotificationAdded.Remove(AddNotification);
■■■ntfSys.m_OnNotificationRemoved.Remove(RemoveNotification);
| ||
|
■void AddNotification( NotificationRuntimeData data )
■■Widget notification■■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/notifications
■■ImageWidget icon■■■= ImageWidget.Cast( notification.FindAnyWidget( "Image" ) );
■■RichTextWidget title■■= RichTextWidget.Cast( notification.FindAnyWidget( "Title"));
■■if (data.GetIcon()!="")
■■■icon.LoadImageFile(0, data.GetIcon());
■■title.SetText( data.GetTitleText() );
■■if ( data.GetDetailText() != "" )
■■■Widget bottom_spacer■= notification.FindAnyWidget( "BottomSpacer" );
```

■■RichTextWidget detail■- RichTextWidget Cast(notification FindAnyWidget("Detail")):

```
// ----- NotifierBase.c - START ------
class NotifierBase
■float■■■m_DeltaT; // time in seconds since the last tick
■ref Timer ■■■m_Timer1; // timer which can be used for whatever
■PlayerBase■■■m_Player; //the player this Notifier belongs to
■int ■■■■m_Type;
■NotifiersManager∎m_Manager;
■int ■■■■m_TendencyBufferSize = 3;//for best results, this should be somewhat aligned with modifier free
■const int ■■■TENDENCY_BUFFER_SIZE = 30;//this needs to be bigger or same size as buffer size of a
■bool■■■■m_ShowTendency;
■bool■■■■m_Active;
■//private float■m_SecsToSound; //internal counter
■//protected float■■m_MinPauseBetweenSounds; //minimal amount of seconds that needs to pass till so
■//protected float■■m_MaxPauseBetweenSounds; //maximal amount of seconds that can pass till sound
■//private float■■m_SecsSinceLastAnimation; //internal counter
■//private float■■m_SecsToAnimation; //internal counter
■//protected float■■m_MinPauseBetweenAnimations; //minimal amount of seconds that needs to pass till
■//protected float■■m_MaxPauseBetweenAnimations; //maximal amount of seconds that can pass till ani
■int■■■■m_TickInterval;
■int■■■■m_TickIntervalLastTick;
■float■■■■m_TendencyBuffer[TENDENCY_BUFFER_SIZE];
■int■■■■■m_TendencyBufferWriteIterator;
■float ■■■■m_LastTendency;
■float■■■m_LastMA;
■bool■■■■m_FirstPass = true;
■//int■■■■m_TendencyID;
■PluginPlayerStatus ■m_ModulePlayerStatus;
■void NotifierBase(NotifiersManager manager)
\blacksquare//m_Timer1 = new Timer();
■■m_ModulePlayerStatus = PluginPlayerStatus.Cast(GetPlugin(PluginPlayerStatus));
■m_Active = true;
■■m_Manager = manager;
■■m_Player = manager.GetPlayer();
■■m TickInterval = 1000;
■■manager.RegisterItself(GetNotifierType(), this);
■bool IsTimeToTick(int current_time)
■■return ( current_time > m_TickIntervalLastTick + m_TickInterval );
■VirtualHud GetVirtualHud()
■ return m_Player.GetVirtualHud();
■int GetNotifierType()
■ return m_Type;
```

```
// ----- NotifiersManager.c - START ------
enum eNotifiers
■NTF_HEALTHY,
■NTF_BLEEDISH,
■NTF_HUNGRY,
■NTF_THIRSTY,
■NTF_STUFFED,
■NTF_SICK,
■NTF_WETNESS,
■NTF_WARMTH,
■NTF_FEVERISH,
■NTF_BLOOD,
■NTF LIVES.
■NTF_STAMINA,
■//NTF_AGENT_INFECTION,
■NTF_PILLS
■NTF HEARTBEAT,
■NTF_FRACTURE,
I//-----
■NTF_COUNT,//!!! LAST ITEM !!!
}
class NotifiersManager
■static const int ■■■■MAX_COUNT = 64;
■ref array<ref NotifierBase> ■m_Notifiers;
■ref NotifierBase ■■■■m_NotifiersStatic[MAX_COUNT];//introduced as a seperate array to allow for fast
■PlayerBase■■■■■m_Player;
■ref VirtualHud■■■■m_VirtualHud;
■int■■■■■■■m_MinTickTime;
■string ■■■■■■■■m_System = "Notifiers";
■void NotifiersManager(PlayerBase player)
■■m_Player = player;
■■m_Notifiers = new array<ref NotifierBase>;
■■m_MinTickTime = MIN_TICK_NOTIFIERS;
■Init();
|
■void Init()
■■m_Notifiers.Insert(new HungerNotfr(this));
■■m_Notifiers.Insert(new ThirstNotfr(this));
■■m_Notifiers.Insert(new WarmthNotfr(this)):
■■m_Notifiers.Insert(new WetnessNotfr(this));
■■m_Notifiers.Insert(new HealthNotfr(this));
■■m_Notifiers.Insert(new FeverNotfr(this));
■■m_Notifiers.Insert(new SickNotfr(this));
■■m_Notifiers.Insert(new StuffedNotfr(this));
■■m_Notifiers.Insert(new BloodNotfr(this));
■■m_Notifiers.Insert(new PillsNotfr(this));
■■m_Notifiers.Insert(new HeartbeatNotfr(this));
```

■■m. Notifiers Insert(new FracturedLegNotfr(this)): //New addition

```
// ----- NurseDress_ColorBase.c - START ------
class NurseDress_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class NurseDress_White extends NurseDress_ColorBase {};
class NurseDress_Blue extends NurseDress_ColorBase {};
// ----- NurseDress_ColorBase.c - END ------
// ----- NutritionalProfile.c - START ------
class NutritionalProfile
■float m_Energy;
■float m_WaterContent;
■float m_NutritionalIndex;
■float m_FullnessIndex;
■float m_Toxicity;
■int m_LiquidType;
■int m_Agents;
■string m_LiquidClassname;
■float m_Digestibility;
■void NutritionalProfile(float energy, float water_content, float nutritional_index, float fullness_index, float t
■m_Energy = energy;
■■m_WaterContent = water_content;
■■m_NutritionalIndex = nutritional_index;
■■m_FullnessIndex = fullness_index;
■■m_Toxicity = toxicity;
■■m_Agents = agents;
■■m_Digestibility = digestibility;
■void MarkAsLiquid(int liquid_type, string classname)
■■m_LiquidType = liquid_type;
■■m_LiquidClassname = classname;
■}
■int GetAgents()
■■return m_Agents;
```

■int GetLiquidType()

```
// ----- NVGHeadstrap.c - START ------
class NVGHeadstrap extends Clothing
Eoverride bool CanPutAsAttachment(EntityAl parent)
■■if (!super.CanPutAsAttachment(parent))
■■ return false:
■■Clothing helmet = Clothing.Cast(parent.FindAttachmentBySlotName( "Headgear" ));
■■if (helmet && helmet.ConfigGetBool("noNVStrap"))
■ return false:
}
■■Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if (mask && mask.ConfigGetBool("noEyewear"))
■■■return false;
——}
■ return true;
■}
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionToggleNVG);
};
// ----- NVGHeadstrap.c - END ------//
// ----- NVGoggles.c - START -----
class NVGoggles extends PoweredOptic_Base
■bool ■■m_lsLowered;
■Clothing ■m_Strap;
■ref Timer ■m_WorkCheckTimer;
■void NVGoggles()
■■RotateGoggles(true);
■■m_WorkCheckTimer = new Timer;
■}
■override void SetActions()
■■super.SetActions();
```

■■RemoveAction(Action\/iewOntics):

```
// ----- Object.c - START ------
enum ProcessDirectDamageFlags
■NO_ATTACHMENT_TRANSFER, //!< Do not transfer damage to attachments
■NO_GLOBAL_TRANSFER, ■//!< Do not transfer damage to global
■NO_TRANSFER, ■■■//!< NO_ATTACHMENT_TRANSFER | NO_GLOBAL_TRANSFER
class Object extends IEntity
■private void ~Object();
mate void Object();
■bool CanBeSkinned()
■■return false;
■}
■/**@brief Delete this object in next frame
 ■ * @return \p void
■ * @code
■ *■■■item.Delete():
* @endcode
**/
■void Delete()
■■GetGame().GetCallQueue(CALL_CATEGORY_SYSTEM).Call(GetGame().ObjectDelete, this);
 }
■proto native void AddProxyPhysics(string proxySelectionName);
■proto native void RemoveProxyPhysics(string proxySelectionName);
■//! Object entered trigger
■void OnEnterTrigger(ScriptedEntity trigger) {}
I/! Object left trigger
■void OnLeaveTrigger(ScriptedEntity trigger) {}
■//! Retrieve all LODS
■proto native bool GetLODS(notnull out array<LOD> lods);
■//! Retrieve LOD name
■proto native owned string GetLODName(LOD lod);
■//! Retrieve LOD by given name
■LOD GetLODByName( string name )
array<LOD> lods = new array<LOD>;
■■GetLODS( lods );
\blacksquarefor (int i = 0; i < lods.Count(); ++i)
string lod_name = GetLODName( lods.Get( i ) );
■■■lod_name.ToLower();
■■name.ToLower();
```

■■■if (lod_name --

name)

```
---- ObjectFollower.c - START -----
class ObjectFollower extends ScriptedWidgetEventHandler
■reference int■■■■■m_PivotYOffset;
■protected Widget■■■■m_Root;
■protected Object■■■■m_TargetObject;
■protected bool ■■■■■■m_Visible;
■void ObjectFollower()
■ m_Visible = false;
■■//GetGame().GetUpdateQueue(CALL_CATEGORY_GUI).Insert(Update);
■void ~ObjectFollower()
■■//GetGame().GetUpdateQueue(CALL_CATEGORY_GUI).Remove(Update);
mathrowideprotected void OnWidgetScriptInit(Widget w)
\blacksquare m_Root = w;
■■m_Root.SetHandler(this);
■void SetTarget(Object obj)
■m_TargetObject = obj;
■override bool OnUpdate(Widget w)
\blacksquareif ( m_Root == w )
■■■Update();
■■return true;
■■return false;
■}
■void Update()
■float x, y;
■ if(m_Visible)
■■■if(m_TargetObject)
■■■GetOnScreenPosition(x, y);
■■■m_Root.Show(true);
■■}
■else
■■m_Root.Show(false);■■
```

```
class ObjectSpawnerHandler
■static void SpawnObjects()
■if( CfgGameplayHandler.GetObjectSpawnersArr() && CfgGameplayHandler.GetObjectSpawnersArr().0
■■■TStringArray arr = CfgGameplayHandler.GetObjectSpawnersArr();
■■foreach(string spawner_json: arr)
 ■■■string path = "$mission:"+spawner_json;
■■■if (FileExist(path))
■■■■ObjectSpawnerJson spawner;
 ■■■■JsonFileLoader<ObjectSpawnerJson>.JsonLoadFile( path, spawner );
■■■■foreach (ITEM_SpawnerObject o: spawner.Objects)
■■■■■SpawnObject(o);
===}
| ||
■static void SpawnObject(ITEM_SpawnerObject item)
■■Object object = GetGame().CreateObjectEx(item.name, vector.ArrayToVec(item.pos), ECE_SETUP | E
■■if (object)
■■■object.SetOrientation( vector.ArrayToVec(item.ypr));
■■■if (item.scale != 0)
■■■object.SetScale(item.scale);
■static void OnGameplayDataHandlerLoad()
■■SpawnObjects();
class ObjectSpawnerJson
■ref array<ref ITEM_SpawnerObject> Objects;
class ITEM_SpawnerObject
■string name;
■float pos[3];
■float ypr[3];
■float scale;
```

```
// ----- ObjectTyped.c - START ------
class ObjectTyped extends Object
// -----
// ----- ObjectTyped.c - END ------//
// ----- ObsoleteFishingRod.c - START ------
class ObsoleteFishingRod: FishingRod_Base_New {};
// -----
// ----- ObsoleteFishingRod.c - END -----
// -----
// ----- OfficerHat.c - START ------
class OfficerHat extends Clothing
// ----- OfficerHat.c - END ------//
// ----- OffroadHatchback.c - START ------
class OffroadHatchback extends CarScript
■protected ref UniversalTemperatureSource m_UTSource;
■protected ref UniversalTemperatureSourceSettings m_UTSSettings;
■protected ref UniversalTemperatureSourceLambdaEngine m_UTŠLEngine;
■void OffroadHatchback()
 ■Mathematic Mathematic Mathem
  ■■m EngineStartOK ■■- "offroad engine start SoundSet":
```

```
//
// ----- OffroadHatchbackFrontLight.c - START ------------
class OffroadHatchbackFrontLight extends CarLightBase
■void OffroadHatchbackFrontLight()
■{
■■m_SegregatedBrightness = 5;
■■m_SegregatedRadius = 55;
■■m_SegregatedAngle = 110;
■■m_SegregatedColorRGB = Vector(1.0, 0.8, 0.6);
■■m_AggregatedBrightness = 10;
■■m_AggregatedRadius = 75;
■■m_AggregatedAngle = 120;
■ MagregatedColorRGB = Vector(1.0, 0.8, 0.6);
■ ■ FadeIn(0.3);
■■SetFadeOutTime(0.25);
■■SegregateLight();
// ----- OffroadHatchbackFrontLight.c - END ------//
/// ----- OffroadHatchbackRearLight.c - START ------
class OffroadHatchbackRearLight extends CarRearLightBase
void OffroadHatchbackRearLight()
[
■■// Brake light only
■■m_SegregatedBrakeBrightness = 1;
■■m SegregatedBrakeRadius = 6:
■■m_SegregatedBrakeAngle = 180;
■ SegregatedBrakeColorRGB = Vector(1, 0.05, 0.05);
■■// Reverse light only
■■m_SegregatedBrightness = 2:
■■m_SegregatedRadius = 13;
■■m_SegregatedAngle = 180;
■■m_SegregatedColorRGB = Vector(1.0, 1.0, 1.0);
■■// Brake & Revese lights combined
■■m_AggregatedBrightness = 2.5;
■■m_AggregatedRadius = 15;
■■m_AggregatedAngle = 180;
■ MagregatedColorRGB = Vector(1.0, 0.5, 0.5);
■ FadeIn(0.1);
■■SetFadeOutTime(0.1);
■■SetVisibleDuringDaylight(false);
```

■SetCastShadow(false):

```
// ----- Offroad_02.c - START ------
class Offroad 02 extends CarScript
■protected ref UniversalTemperatureSource m_UTSource;
■protected ref UniversalTemperatureSourceSettings m_UTSSettings:
■protected ref UniversalTemperatureSourceLambdaEngine m_UTŠLEngine;
■void Offroad_02()
\blacksquare//m_dmgContactCoef\blacksquare= 0.0365;
■■m_EngineStartOK■■■= "Offroad_02_engine_start_SoundSet";
■■m_EngineStartBattery■= "Offroad_02_engine_failed_start_battery_SoundSet";
■■m_EngineStartPlug■■= "Offroad_02_engine_failed_start_sparkplugs_SoundSet";
■■m_EngineStartFuel■■= "Offroad_02_engine_failed_start_fuel_SoundSet";
■■m_EngineStopFuel■■= "offroad_engine_stop_fuel_SoundSet";
■■m_CarDoorOpenSound■■= "offroad_02_door_open_SoundSet";
■■m_CarDoorCloseSound■■= "offroad_02_door_close_SoundSet";
■■m_CarHornShortSoundName = "Offroad_02_Horn_Short_SoundSet";
■■m_CarHornLongSoundName■= "Offroad_02_Horn_SoundSet";
■■SetEnginePos("0 0.7 1.7");
■}
■override void EEInit()
■■super.EEInit();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■■m_UTSSettings ■■■■■ new UniversalTemperatureSourceSettings();
■■■m_UTSSettings.m_ManualUpdate ■= true;
■■■m_UTSSettings.m_TemperatureMin■= 0;
■■m_UTSSettings.m_TemperatureMax■= 30;
■■■m_UTSSettings.m_RangeFull■■= 0.5;
■■■m_UTSSettings.m_RangeMax■■= 2;
■■■m_UTSSettings.m_TemperatureCap■= 25;
■■■m_UTSLEngine■■■■■= new UniversalTemperatureSourceLambdaEngine();
■■■ UTSource ■■■■■■ new UniversalTemperatureSource(this, m_UTSSettings, m_UTSLEngine);
---}
|
■override void OnEngineStart()
■■super.OnEngineStart();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■m_UTSource.SetDefferedActive(true, 20.0);
■■}
■}
■override void OnEngineStop()
■■super.OnEngineStop();
```

```
// ----- Offroad_02FrontLight.c - START ------
class Offroad_02FrontLight extends CarLightBase
■void Offroad_02FrontLight()
■{
■■m_SegregatedBrightness = 5;
■■m_SegregatedRadius = 75;
■m_SegregatedAngle = 90;
\blacksquarem_SegregatedColorRGB = Vector(0.85, 0.85, 0.58);
 ■■m_AggregatedBrightness = 10;
■■m_AggregatedRadius = 100;
■■m_AggregatedAngle = 120;
Machine M
■ ■ FadeIn(0.1);
■■SetFadeOutTime(0.05);
■■SegregateLight();
};
//
// ----- Offroad_02FrontLight.c - END ------
_____
// ----- Offroad_02RearLight.c - START ------
// -----
class Offroad 02RearLight extends CarRearLightBase
■void Offroad_02RearLight()
■■// Brake light only
■■m_SegregatedBrakeBrightness = 6;
■■m SegregatedBrakeRadius = 6:
■■m_SegregatedBrakeAngle = 220;
■ SegregatedBrakeColorRGB = Vector(0.95, 0.15, 0.13);
■■// Reverse light only
■■m_SegregatedBrightness = 2;
■■m_SegregatedRadius = 15;
■■m_SegregatedAngle = 160;
\blacksquarem_SegregatedColorRGB = Vector(0.64, 0.60, 0.62);
■■// Brake & Revese lights combined
■■m_AggregatedBrightness = 7;
■■m_AggregatedRadius = 18;
■■m_AggregatedAngle = 170;
■ MagregatedColorRGB = Vector(1.0, 0.4, 0.5);
\blacksquareFadeIn(0.1);
■■SetFadeOutTime(0.05);
```

■■Set\/isibleDurinaDayliabt/false\-

```
// ----- OFSMBase.c - START ------
/**@class■■OFSMBase
  @brief

base class for Orthogonal Finite State Machine
  stores current states (m_states) and transition table with possible transitions from each state
* to another state via event
class OFSMBase<Class FSMStateBase, Class FSMEventBase, Class FSMActionBase, Class FSMGuard
■protected ref array<ref FSMStateBase> m_States; /// current fsm state
■protected ref array<ref FSMStateBase> m_InitialStates; /// configurable initial state of the machine
■protected ref array<ref FSMTransition<FSMStateBase, FSMEventBase, FSMActionBase, FSMGuardBase
■void OFSMBase ()
[
■■m_States = new array<ref FSMStateBase>;
m_InitialStates = new array<ref FSMStateBase>;
■■m Transitions = new array<ref FSMTransition<FSMStateBase, FSMEventBase, FSMActionBase, FSM
■/**@fn■■■GetCurrentStates
* @brief returns currently active state
■ * @return■■current state the FSM is in (or NULL)
■array<ref FSMStateBase> GetCurrentState ()
■■return m_States;
■/**@fn■■■SetInitialState
■ * @brief■■sets the initial_state for starting the machine
■void SetInitialStates (array<ref FSMStateBase> initial_states)
■■m_InitialStates = initial_states;
The solution for (int s = 0; s < initial\_states.Count(); ++s)
■■■m_States.Insert(initial_states[s]);
|
■/**@fn■■■Start
■ * @brief■■starts the state machine by entering the initial_state (using intial_event as argument to initial
■ * @param[in] ■ e \p■optional event for starting the machind
■void Start (array<ref FSMEventBase> initial_events = null)
■■fsmbDebugPrint("[ofsm] " + this.ToString() + "::Start(" + initial_events.ToString() + "), init_state=" + m_I
\blacksquarefor (int s = 0; s < m_States.Count(); ++s)
-{
■■■m_States[s] = m_InitialStates[s];
■■■if (initial_events)
■■■m_States[s].OnEntry(initial_events[s]);
■■else
■■■m_States[s].OnEntry(null);
```

■}

```
// ----- OMNOGloves_ColorBase.c - START ------
class OMNOGloves_ColorBase extends Clothing {};
class OMNOGloves_Gray extends OMNOGloves_ColorBase {};
class OMNOGloves_Brown extends OMNOGloves_ColorBase {};
// ----- OMNOGloves_ColorBase.c - END ------
// ----- OnlineServices.c - START -----
// -----
class OnlineServices
■ static ref ScriptInvoker ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ServerModLoadAsyncInvoker = new ScriptInvoker();
■ static ref TrialService ■■■■■■■■■■■ TrialService:
protected static string
protected static int
■protected static string■■■■■■■■■■■■m_CurrentServerIP;
protected static int
■protected static ref GetServersResultRow
■■■■■■■■■■
CurrentServerInfo;
■protected static ref map<string, ref BiosFriendInfo>■■■■m_FriendsList;
■protected static ref map<string, bool>■■■■■■■■■■■■■■■MuteList;
■protected static ref map<string, ref BiosPrivacyPermissionResultArray>■m_PermissionsList;
■protected static bool■■■■■■■■■■■■■■■■■■= true;
protected static bool ■■■■■■■■■■■■■■■■■■■■■ false;
■protected static ref array<string>■■■■■■■■■■■ PendingInvites;
■static void Init()
■■#ifdef PLATFORM_CONSOLE
■■■#ifndef PLATFORM_WINDOWS // if app is not on Windows with -XBOX parameter
■■■if (!m_TrialService)
■■■m_TrialService = new TrialService;
■■■if (!m_FriendsList)
■■■m_FriendsList = new map<string, ref BiosFriendInfo>;
■■■if (!m_MuteList)
■■■m_MuteList = new map<string, bool>;
■■■if (!m_PermissionsList)
■■■m_PermissionsList = new map<string, ref BiosPrivacyPermissionResultArray>;
```

■■■m FriendsList Clear()

```
// ----- OpenableBehaviour.c - START ------
class OpenableBehaviour
■protected bool m_lsOpened;
■void OpenableBehaviour(bool bState = true)
■ m_IsOpened = bState; //! initial value
■void Open()
■■SetState(true);
■void Close()
■■SetState(false);
■}
■bool IsOpened()
■ return GetState();
■protected void SetState(bool bState)
■m_IsOpened = bState;
■protected bool GetState()
■ return m_IsOpened;
// ----- OpenableBehaviour.c - END -------//
// -----
// ----- OpenCan.c - START -----
class OpenCan extends RecipeBase
■override void Init()
■■m_Name = "#STR_OpenCan0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
■■m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■m_AnywhereInInventory = false;//is this recipe valid even when neither of the items is in hands
■■//conditions
```

■ MinDamageIngredient[0] - -1://-1 - disable check

```
// ----- OpenDir.c - START -----
[WorkbenchPluginAttribute("Open Dir", "Just for testing", "ctrl+-", "", {"ScriptEditor"})]
class OpenDirPlugin: WorkbenchPlugin
■override void Run()
■{
■■ScriptEditor mod = Workbench.GetModule("ScriptEditor");
■ if (mod)
----
■■string file;
■■■string absPath;
■■■if (mod.GetCurrentFile(file) && Workbench.GetAbsolutePath(file, absPath))
■■■if (absPath.Length() < 2) return;
■■■absPath.Replace("\\", "/");
■■■if (absPath[1]!= ":")
■■■■string cwd;
■■■■Workbench.GetCwd(cwd);
\blacksquare absPath = cwd + "/" + absPath;
■■■int index = absPath.IndexOf("/");
■■■int last_index = index;
\blacksquare while(index != -1)
■■■■■last_index = index;
■■■■index = absPath.IndexOfFrom(last_index + 1, "/");
----}
■■■if (last_index == -1) return;
■■■string path = absPath.Substring(0, last_index);
■■■string command;
■■■command.Replace("$path", path);
■■■//Print(path);
■■■//Workbench.RunCmd(command);
■■■■Workbench.RunCmd("cmd /c \"start " + path +"\"");
——}
|
■override void Configure()
■■Workbench.ScriptDialog("Configure OpenDir", "Usage: \n$path - will be replaced with file name", this);
■[ButtonAttribute("OK")]
■void OkButton() {}
```

// ----- OpenDir.c - FND ------

```
// ----- OpenItem.c - START -----
class OpenItem
■//! WIll open the 'item_target' by spawning a new entity and transferring item variables to the new one
■static void OpenAndSwitch(ItemBase item_tool, ItemBase item_target, PlayerBase player, float specialty
array<int> spill_range = new array<int>;
■■if( item_tool.ConfiglsExisting("OpenItemSpillRange") )
■■■item_tool.ConfigGetIntArray("OpenItemSpillRange", spill_range);
else
■■■Debug.LogError("OpenItemSpillRange config parameter missing, default values used!");
■■■Error("OpenItemSpillRange config parameter missing, default values used !");
■■spill_range.Insert(0);
■■spill_range.Insert(100);
■■float spill_modificator = Math.RandomIntInclusive( spill_range.Get(0),spill_range.Get(1) ) / 100;
■■OpenItem.SwitchItems(item_target, player, spill_modificator, specialty_weight);
■//! Will switch the 'item' for a new game entity, the new entity's classname will be formed by adding the 's
■static void SwitchItems (EntityAl old_item, PlayerBase player, float spill_modificator, float specialty_weig
{
■■string old_name = old_item.GetType();
■string new name = old name + " Opened":
■■OpenAndSwitchLambda I = new OpenAndSwitchLambda(old_item, new_name, player, spill_modificate
■■I.SetTransferParams(true, true, true, true);
■■MiscGameplayFunctions.TurnItemIntoItemEx(player, I);
■}
};
class OpenAndSwitchLambda: TurnItemIntoItemLambda
■float m_SpillModifier;
■float m SpecialtyWeight:
■void OpenAndSwitchLambda (EntityAl old_item, string new_item_type, PlayerBase player, float spill_mo
■override void CopyOldPropertiesToNew (notnull EntityAl old_item, EntityAl new_item)
■■super.CopyOldPropertiesToNew(old_item, new_item);
■override void OnSuccess (EntityAl new_item)
■■super.OnSuccess(new_item);
■■ItemBase ib = ItemBase.Cast(new_item);
■■if ( new_item )
 ■■float quantity_old = ib.GetQuantity();
■■■float spill_amount = quantity_old * m_SpillModifier;
■■■spill_amount = m_Player.GetSoftSkillsManager().SubtractSpecialtyBonus(spill_amount, m_Specialty
■■■float quantity_new = quantity_old - spill_amount;
```

```
// ----- Optics.c - START -----
class M68Optic : ItemOptics {};
class M4_T3NRDSOptic : ItemOptics {};
class FNP45_MRDSOptic : ItemOptics {};
class Crossbow_RedpointOptic : ItemOptics {};
class ReflexOptic : ItemOptics {};
class ACOGOptic: ItemOptics ();
class KashtanOptic : ItemOptics {};
class LongrangeOptic : ItemOptics {};
class PistolOptic : ÎtemOptics {};
class GrozaOptic : ItemOptics {};
class KobraOptic: ItemOptics ();
class ACOGOptic_6x : ItemOptics {};
class KazuarOptic: ItemOptics
■override void InitOpticMode() //TODO - decide whether to randomize on spawn and how to determine it (
■■super.InitOpticMode();
■■SetCurrentOpticMode(GameConstants.OPTICS_STATE_NIGHTVISION);
■override int GetCurrentNVType()
■■if (IsWorking())
■■■switch (m_CurrentOpticMode)
■■■case GameConstants.OPTICS_STATE_DAY:
■■■■return NVTypes.NV_OPTICS_KAZUAR_DAY;
■■■case GameConstants.OPTICS_STATE_NIGHTVISION:
■■■■return NVTypes.NV_OPTICS_KAZUAR_NIGHT;
Example 2 Error("Undefined optic mode of " + this);
■■return NVTypes.NONE;
——}
■■else
■■■return NVTypes.NV_OPTICS_OFF;
| | |
■}
■override void OnOpticModeChange()
■■super.OnOpticModeChange();
■UpdateSelectionVisibility();
■override void OnOpticEnter()
■■super.OnOpticEnter();
■■HideSelection("hide_cover_pilot");
```

■override void UndateSelection\/isihility()

```
// ----- OptionSelector.c - START ------
class OptionSelector extends OptionSelectorBase
■protected Widget■■■■■m_PreviousOption;
■protected Widget■■■■■m_NextOption;
■protected TextWidget■■■■m_SelectedOption;
■ protected int ■■■■■■■■ Selected Option Index;
■protected ref array<string>■■■■m_Options;
■void OptionSelector(Widget parent, int current_index, ScriptedWidgetEventHandler parent_c, bool disable
•{
■■m_Options■■■= { "#server_browser_disabled", "#server_browser_show", "#server_browser_hide" }
■■m_ParentClass■■= parent_c;
\blacksquare \blacksquare m\_SelectorType \blacksquare \blacksquare \blacksquare = 2;
■■if (current_index < 0 || current_index >= m_Options.Count())
■■■m_SelectedOptionIndex = 0;
==}
■■else
•
■■■m_SelectedOptionIndex = current_index;
■■m_Root■■■■■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/option_selector.la
■■#ifdef PLATFORM CONSOLE
■■■m_Parent■■■■= parent.GetParent().GetParent();
■#else
■■#ifdef PLATFORM_WINDOWS
■■■m Parent■■■= parent.GetParent();
■#endif
■#endif
■■m_SelectedOption■■■= TextWidget.Cast(m_Root.FindAnyWidget("option_label"));
■■m_PreviousOption■■■= m_Root.FindAnyWidget("prev_option");
■■m_NextOption■■■■= m_Root.FindAnyWidget("next_option");
■■#ifdef PLATFORM_CONSOLE
■■■m_NextOption.Show(false);
■■m_PreviousOption.Show(false);
■#endif
m_SelectedOption.SetText(m_Options.Get(m_SelectedOptionIndex));
■m_Enabled = !disabled;
■■if (m_Enabled)
■■{
■■■Enable();
--
■■else
■■■Disable();
■■m_Parent.SetHandler(this);
■}
■void ~OptionSelector()
```

■■delete m Root:

```
----- OptionSelectorBase.c - START ------
class OptionSelectorBase extends ScriptedWidgetEventHandler
■protected int■■■■■■■m_SelectorType = 0;
■protected Widget■■■■■m_Parent;
■protected Widget■■■■■m_Root;
■protected bool
■■■■■■m_Enabled;
■protected ScriptedWidgetEventHandler■m_ParentClass;
■ref ScriptInvoker
■■■■■■■
OptionFocused = new ScriptInvoker;
■ref ScriptInvoker
■■■■■■■ OptionUnfocused = new ScriptInvoker;
■ref ScriptInvoker■■■■■■ AttemptOptionChange = new ScriptInvoker:
■ref ScriptInvoker■■■■■■■ OptionChanged = new ScriptInvoker;
■void ~OptionSelectorBase()
■■delete m_Root;
■Widget GetParent()
■■return m_Parent;
•}
■bool IsFocusable(Widget w)
[
■■if (w)
■■■return w == m_Parent;
}
■■return false;
•}
■override bool OnMouseEnter(Widget w, int x, int y)
■ if (!IsFocusable(w))
■■return true;
■■if (m_ParentClass)
■■■m_ParentClass.OnFocus(m_Root.GetParent(), -1, m_SelectorType);
■■#ifndef PLATFORM CONSOLE
■■■m_ParentClass.OnMouseEnter(m_Root.GetParent().GetParent(), x, y);
#endif
==}
■■UIScriptedMenu menu = GetGame().GetUIManager().GetMenu();
■■if (menu && menu.lsInherited(CharacterCreationMenu))
■■■menu.OnFocus(m_Root.GetParent(), -1, m_SelectorType);
■■■menu.OnMouseEnter(m_Root.GetParent(), x, y);
——}
■■#ifndef PLATFORM_CONSOLE
■■ColorHighlight(w);
```

#**#**||

```
----- OptionSelectorEditbox.c - START ------
class OptionSelectorEditbox extends OptionSelectorBase
■protected EditBoxWidget■■m_EditBox;
■void OptionSelectorEditbox(Widget parent, string value, ScriptedWidgetEventHandler parent_menu, boo
■■m_Root■■■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/option_editbox.layo
■■#ifdef PLATFORM_CONSOLE
■■■m_Parent■■■= parent.GetParent().GetParent();
■■#else
■■#ifdef PLATFORM WINDOWS
■■■m_Parent■■■= parent.GetParent();
■#endif
■#endif
■■m_SelectorType■■■■= 1;
■■m_ParentClass■■■= parent_menu;
■■m_EditBox■■■■= EditBoxWidget.Cast(m_Root.FindAnyWidget("option_value"));
■■SetValue(value);
■■Enable();
■■m_Parent.SetHandler(this);
•}
■void ~OptionSelectorEditbox()
■■delete m_Root;
■}
■override void Enable()
■■super.Enable();
■■m_EditBox.ClearFlags(WidgetFlags.IGNOREPOINTER);
■}
■override void Disable()
■super.Disable();
■■m_EditBox.SetFlags(WidgetFlags.IGNOREPOINTER);
■}
■override bool OnMouseEnter(Widget w, int x, int y)
■■if (!IsFocusable(w))
■■ return true;
■■if (m_ParentClass)
■■■m_ParentClass.OnFocus(m_Root.GetParent(), -1, m_SelectorType);
■■■m_ParentClass.OnMouseEnter(m_Root.GetParent().GetParent(), x, y);
■■}
■■UIScriptedMenu menu = GetGame().GetUIManager().GetMenu();
```

■■if (menu && menu IsInherited(CharacterCreationMenu))

```
// ----- OptionSelectorLevelMarker.c - START ------
\brief This Option Selector handles a Slider Marker, which basically has 2 sliders
  One slider is for selecting the value, and the other slider is for displaying some other value/ information
@param m_Slider2 other slider value, which can be used to convery some other info to the player
class OptionSelectorLevelMarker extends OptionSelectorSliderSetup
■protected SliderWidget■■m_Slider2;
■void OptionSelectorLevelMarker(Widget parent, float value, ScriptedWidgetEventHandler parentMenu, b
■ m_Root ■ ■ GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/option_level_market
■■#ifdef PLATFORM CONSOLE
■■■m_Parent■■■■= parent.GetParent().GetParent();
■#else
■■#ifdef PLATFORM_WINDOWS
■■■m_Parent■■■= parent.GetParent();
#endif
■#endif
■■m_SelectorType■■= 1;
■■m_ParentClass■■= parentMenu;
■■m_Slider■■■= SliderWidget.Cast(m_Root.FindAnyWidget("marker_value"));
■■m_Slider2■■■= SliderWidget.Cast(m_Root.FindAnyWidget("other_slider_value"));
■■m_MinValue■■■■= min;
■■m_MaxValue■■■■= max;
■■SetValue(value, false);
■■SetSlider2Value(0);
■■Enable();
■■m_Parent.SetHandler(this);
■override void Enable()
■■super.Enable();
■■m_Slider2.ClearFlags(WidgetFlags.IGNOREPOINTER);
■}
■override void Disable()
■■super.Disable();
■■m_Slider2.SetFlags(WidgetFlags.IGNOREPOINTER);
■void SetSlider2Value(float value)
■■m_Slider2.SetCurrent(NormalizeInput(value));
■override bool OnUpdate(Widget w)
■■return false;
```

```
----- OptionSelectorMultistate.c - START ------
class OptionSelectorMultistate extends OptionSelector
■protected bool ■m_CanSwitch;
■void OptionSelectorMultistate(Widget parent, int current_index, ScriptedWidgetEventHandler parent_c, b
■m_CanSwitch = true;
■■m_SelectorType■■■■= 2;
■■m_Options■■■■= options;
\blacksquare if (options.Count() == 0)
■■Error("Invalid OptionSelectorMultistate options");
■■if (current_index < 0 || current_index >= m_Options.Count())
■■■m_SelectedOptionIndex = 0;
■■else
■■■m_SelectedOptionIndex = current_index;
■■m_SelectedOption.SetText(m_Options.Get(m_SelectedOptionIndex));
void LoadNewValues(notnull array<string> options, int current_index)
■■m_Options = options;
■■SetValue(current_index);
■override void SetNextOption()
■■int idx = m_SelectedOptionIndex;
■■idx++;
\blacksquareif (idx >= m_Options.Count())
\blacksquare idx = 0;
}
■■m_AttemptOptionChange.Invoke(idx);
■■if (m_CanSwitch)
■■■PerformSetOption(idx);
--
■override void SetPrevOption()
■■int idx = m_SelectedOptionIndex;
■■idx--;
\blacksquareif (idx < 0)
\blacksquare idx = m_Options.Count() - 1;
```

```
// ----- OptionSelectorSlider.c - START ------
class OptionSelectorSlider extends OptionSelectorSliderSetup
■void OptionSelectorSlider(Widget parent, float value, ScriptedWidgetEventHandler parent_menu, bool di
■ m_Root ■ ■ GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/option_slider.layouts/new_ui/o
■■#ifdef PLATFORM_CONSOLE
■■■m_Parent■■■= parent.GetParent().GetParent();
#else
■■#ifdef PLATFORM_WINDOWS
■■■m_Parent■■■= parent.GetParent();
■#endif
■#endif
■■m_SelectorType■■■= 1;
■■m_ParentClass■■■= parent_menu;
■■m_Slider■■■■= SliderWidget.Cast(m_Root.FindAnyWidget("option_value"));
■■m_Slider.SetCurrent(value);
■■m_MinValue■■■■■= min;
■■m_MaxValue■■■■= max;
■■SetValue(value);
■■Enable();
■■m_Parent.SetHandler(this);
// ----- OptionSelectorSlider.c - END ------//
// -----
// ----- OptionSelectorSliderSetup.c - START ------
class OptionSelectorSliderSetup extends OptionSelectorBase
■protected SliderWidget■■m_Slider;
■protected float
■m_MinValue;
■protected float■■■■m_MaxValue;
■void ~OptionSelectorSliderSetup()
■■delete m_Root;
■override void Enable()
■■super.Enable();
 ■■m_Slider.ClearFlags(WidgetFlags.IGNOREPOINTER);
```

Override void Disable()

```
// ----- OptionsMenu.c - START ------
class OptionsMenu extends UIScriptedMenu
■const int MODAL_ID_DEFAULT = 100;
■const int DIALOG_TAB_OFFSET = 1400;
■protected TabberUI■■■■m_Tabber;
■protected ref OptionsMenuGame■m_GameTab;
■protected ref OptionsMenuSounds■■m_SoundsTab;
■protected ref OptionsMenuVideo■■m_VideoTab;
■protected ref OptionsMenuControls■m_ControlsTab;
■protected ref GameOptions
■■m_Options;
■protected ButtonWidget■■■m_Apply;
■protected ButtonWidget■■■m_Back;
■protected ButtonWidget■■■m_Reset; //undo
■protected ButtonWidget■■■■m_Defaults; //defaults
■protected Widget■■■■■m_Details;
■protected TextWidget■■■m_Version;
■protected bool ■■■■■■m_ModalLock;
■protected bool ■■■■■■m_CanApplyOrReset;
■protected bool ■■■■■■m_CanToggle;
■void OptionsMenu()
■override Widget Init()
■■m_Options■■= new GameOptions();
■■#ifdef PLATFORM_XBOX
■■layoutRoot■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/options/xbox/options_
■#else
■#ifdef PLATFORM PS4
■■layoutRoot■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/options/ps/options_m
■■#ifdef PLATFORM_WINDOWS
■■layoutRoot■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/options/pc/options_m
■#endif
#endif
■#endif
■■layoutRoot.FindAnyWidget("Tabber").GetScript(m_Tabber);
■■m_Details■■= layoutRoot.FindAnyWidget("settings_details");
■■m_Version■■= TextWidget.Cast(layoutRoot.FindAnyWidget("version"));
■■m_GameTab■■= new OptionsMenuGame(layoutRoot.FindAnyWidget("Tab_0"), m_Details, m_Option
■■m_SoundsTab■■= new OptionsMenuSounds(layoutRoot.FindAnyWidget("Tab_1"), m_Details, m_Opt
■■#ifdef PLATFORM_XBOX
```

■■m_ControlsTab■= new OptionsMenuControls(layoutRoot.FindAnyWidget("Tab_2"), m_Details, m_Opti

```
// ----- OptionsMenuControls.c - START ------
class OptionsMenuControls extends ScriptedWidgetEventHandler
■protected Widget■■■■■m_Root;
■protected Widget■■■■■m_SettingsRoot;
■ protected Widget ■■■■■ Details Root;
■protected Widget■■■■■m_DetailsBodyDefault;
■ protected Widget ■■■■■ Details Body Connectivity:
#ifdef PLATFORM_CONSOLE
■protected bool ■■■■■■■m_MaKOptionAvailable;
■protected Widget■■■■■m_ConsoleControllerSensitivityWidget;
■protected Widget■■■■■m_ConsoleMouseSensitivityWidget;
#endif
■protected TextWidget■■■■m_DetailsLabel;
■protected RichTextWidget■■■m_ DetailsText;
■protected GridSpacerWidget■■■m_Keybindings;
■protected GameOptions
■■■■■ Options;
■protected OptionsMenu■■■■■m_Menu;
■// console options accessors
■protected ref SwitchOptionsAccess■m_KeyboardOption;
■protected ref SwitchOptionsAccess■■m_AimHelperOption;
■// console options selectors
■protected ref OptionSelectorMultistate■m_KeyboardSelector;
■protected ref OptionSelectorMultistate m_AimHelperSelector;
■// mouse accessors
■protected ref SwitchOptionsAccess■■m_Mouse_InvertOption;
■protected ref NumericOptionsAccess■■m_Mouse_VSensitivityOption;
■protected ref NumericOptionsAccess■■m_Mouse_HSensitivityOption;
■protected ref NumericOptionsAccess■■ Mouse AimMod VSensitivityOption:
■protected ref NumericOptionsAccess■■m_Mouse_AimMod_HSensitivityOption;
■// mouse selectors
■protected ref OptionSelectorMultistate■m_Mouse_InvertSelector;
■protected ref OptionSelectorSlider■■m_Mouse_VSensitivitySelector;
■protected ref OptionSelectorSlider■■m Mouse HSensitivitySelector:
■protected ref OptionSelectorSlider■■m_Mouse_AimMod_VSensitivitySelector;
■protected ref OptionSelectorSlider■■m Mouse AimMod HSensitivitySelector:
■// gamepad/controller accessors
■ protected ref NumericOptionsAccess ■ m_ControllerLS_VSensitivityOption; ■ protected ref NumericOptionsAccess ■ m_ControllerLS_HSensitivityOption;
■protected ref NumericOptionsAccess■■ ControllerLS VehicleMod HSensitivityOption:
■protected ref SwitchOptionsAccess■■m_ControllerRS_InvertOption;
■protected ref NumericOptionsAccess■■m_ControllerRS_VSensitivityOption;
■protected ref NumericOptionsAccess■m_ControllerRS_HSensitivityOption;
■protected ref NumericOptionsAccess■■m_ControllerRS_CurvatureOption;
■ protected ref NumericOptionsAccess ■ ControllerRS_AimMod_VSensitivityOption; ■ protected ref NumericOptionsAccess ■ ControllerRS_AimMod_HSensitivityOption;
■protected ref NumericOptionsAccess■■m_ControllerRS_AimMod_CurvatureOption;
■// gamepad/controller selectors
■protected ref OptionSelectorSlider■■m_ControllerLS_VSensitivitySelector;
■protected ref OptionSelectorSlider■■m_ControllerLS_HSensitivitySelector;
```

Inrotected ref OntionSelectorSlider■■m. ControllerI.S. VehicleMod. HSensitivitySelector:

```
// ----- OptionsMenuGame.c - START ------
class OptionsMenuGame extends ScriptedWidgetEventHandler
■protected Widget■■■■■m_Root;
■protected Widget■■■■■m_SettingsRoot;
■protected Widget■■■■■m_DetailsRoot;
■protected Widget■■■■■m_DetailsBodyDefault;
■protected Widget■■■■■m_DetailsBodyConnectivity;
■protected TextWidget■■■■m_DetailsLabel;
■protected RichTextWidget■■■m_DetailsText;
■protected ButtonWidget■■■■m_QuickbarButton;
■protected ref NumericOptionsAccess■■m_FOVOption;
■protected ref ListOptionsAccess■■■m_LanguageOption;
■protected ref ListOptionsAccess■■■m_PauseOption;
■#ifdef PLATFORM_CONSOLE
■protected ref NumericOptionsAccess■■m_BrightnessOption;
■protected ref OptionSelectorSlider■■m_BrightnessSelector;
#endif
■protected ref OptionSelectorMultistate■m_LanguageSelector;
■protected ref OptionSelectorSlider■■m_FOVSelector;
■protected ref OptionSelectorMultistate■m_ShowHUDSelector;
■protected ref OptionSelectorMultistate m_ShowCrosshairSelector;
■protected ref OptionSelectorMultistate m_ShowQuickbarSelector;
■protected ref OptionSelectorMultistate m_ShowGameSelector;
■protected ref OptionSelectorMultistate■m_ShowAdminSelector;
■protected ref OptionSelectorMultistate■m_ShowPlayerSelector;

    ■protected ref OptionSelectorMultistate
    ■m_ShowServerInfoSelector;
    ■protected ref OptionSelectorMultistate
    ■m_BleedingIndication;

■protected ref OptionSelectorMultistate ■m_ConnectivityInfo;
■protected ref OptionSelectorMultistate■m_PauseSelector;
■protected GameOptions
■■■■■ Options;
■protected OptionsMenu■■■■■m_Menu;
■protected ref map<int, ref Param2<string, string>> m_TextMap;
■void OptionsMenuGame(Widget parent, Widget details_root, GameOptions options, OptionsMenu menu
■■m_Root■■■■■= GetGame().GetWorkspace().CreateWidgets(GetLayoutName(), parent);
■■m_DetailsRoot■■■= details_root;
■■m_DetailsBodyDefault ■■= m_DetailsRoot.FindAnyWidget("settings_details_body");
■■m_DetailsBodyConnectivity ■= m_DetailsRoot.FindAnyWidget("settings_details_body_connectivity");
■■m_DetailsLabel■■■= TextWidget.Cast(m_DetailsRoot.FindAnyWidget("details_label"));
■■m_DetailsText■■■= RichTextWidget.Cast(m_DetailsRoot.FindAnyWidget("details_content"));
■■m_Options■■■■= options;
■■m Menu■■■■■= menu:
■■m_FOVOption■■■■■= NumericOptionsAccess.Cast(m_Options.GetOptionByType(OptionAccessTyp
■■m_LanguageOption■■■= ListOptionsAccess.Cast(m_Options.GetOptionByType(OptionAccessType.A
■■m_PauseOption■■■■= ListOptionsAccess.Cast(m_Options.GetOptionByType(OptionAccessType.AT
■■m_Root.FindAnyWidget("fov_setting_option").SetUserID(OptionAccessType.AT_OPTIONS_FIELD_OF
```

■■m_Root.FindAnyWidget("hud_setting_option").SetUserID(OptionIDsScript.OPTION_HUD);

■■ Root FindAnyWidget("crosshair_setting_ontion") SetUserID(OntionIDsScript OPTION CROSSHAIF

```
// ----- OptionsMenuSounds.c - START ------
class OptionsMenuSounds extends ScriptedWidgetEventHandler
■protected Widget■■■■■m_Root;
■protected Widget■■■■■m_SettingsRoot;
■ protected Widget ■■■■■ Details Root:
■protected Widget■■■■■m_DetailsBodyDefault;
■ protected Widget ■■■■■■ Details Body Connectivity;
■protected TextWidget■■■■m_DetailsLabel;
■protected RichTextWidget■■■m_DetailsText;
■protected ref NumericOptionsAccess■■m_MasterOption;
■protected ref NumericOptionsAccess■■m_EffectsOption;
■protected ref NumericOptionsAccess■■m_VOIPOption;
■protected ref NumericOptionsAccess ■m_VOIPThresholdOption;
■protected ref NumericOptionsAccess■■m_MusicOption;
■protected ref ListOptionsAccess■■■ InputModeOption:
■protected ref OptionSelectorSlider■■m_MasterSelector;
■protected ref OptionSelectorSlider■■m_EffectsSelector;
■protected ref OptionSelectorSlider■■m_VOIPSelector;
■protected ref OptionSelectorLevelMarker■m VOIPThresholdSelector;
■protected ref OptionSelectorSlider■■m_MusicSelector;
■protected ref OptionSelectorMultistate m_InputModeSelector;
■protected ref Timer ■■■■■m_AudioLevelTimer;
■protected OptionsMenu■■■■m_Menu;
■protected MissionGameplay
■■■■ MissionGameplay;
■protected VONManagerBase■■■■m_VonManager;
■protected ref map<int, ref Param2<string, string>> m_TextMap;
 ■private bool ■■■■■■■■m_WasMicCapturing;
■void OptionsMenuSounds(Widget parent, Widget details_root, GameOptions options, OptionsMenu men
Market Market
■■m DetailsRoot■■= details root;
■■m_DetailsBodyDefault ■■= m_DetailsRoot.FindAnyWidget("settings_details_body");
■■m_DetailsBodyConnectivity ■= m_DetailsRoot.FindAnyWidget("settings_details_body_connectivity");
■■m_DetailsLabel■■■= TextWidget.Cast( m_DetailsRoot.FindAnyWidget("details_label"));
■■m_DetailsText■■= RichTextWidget.Cast( m_DetailsRoot.FindAnyWidget("details_content"));■
■■m_Options■■■= options;
■■m Menu■■■■= menu;
■■m_MasterOption■■■= NumericOptionsAccess.Cast(m_Options.GetOptionByType(OptionAccessType
■■m_EffectsOption■■■= NumericOptionsAccess.Cast(m_Options.GetOptionByType(OptionAccessType)
■■m_MusicOption■■■= NumericOptionsAccess.Cast(m_Options.GetOptionByType(OptionAccessType)
■■m_VOIPOption■■■= NumericOptionsAccess.Cast(m_Options.GetOptionByType(OptionAccessType.A
■■m_VOIPThresholdOption■= NumericOptionsAccess.Cast(m_Options.GetOptionByType(OptionAccess
■■m_InputModeOption■■= ListOptionsAccess.Cast(m_Options.GetOptionByType(OptionAccessType.A-
 ■■m_MissionGameplay■■= MissionGameplay.Cast(GetGame().GetMission());
■■m_VonManager ■■■= VONManager.GetInstance();
■■m_AudioLevelTimer = new Timer();
■■m_AudioLevelTimer.Run(0.1, this, "UpdateAudioLevel", NULL, true);
```

```
// ----- OptionsMenuVideo.c - START ------
class OptionsMenuVideo extends ScriptedWidgetEventHandler
■protected Widget■■■■■m_Root;
■protected Widget■■■■■m_SettingsRoot;
■ protected Widget ■■■■■ Details Root;
■protected Widget■■■■■m_DetailsBodyDefault;
■ protected Widget ■■■■■■ Details Body Connectivity;
■protected TextWidget■■■■m_DetailsLabel;
■protected RichTextWidget■■■m_DetailsText;
■protected GameOptions
■■■■■ Options;
■protected OptionsMenu■■■■■m_Menu;
■#ifdef PLATFORM CONSOLE
■■#ifdef PLATFORM_PS4
■■■protected ref OptionSelectorMultistate■m FlipModeSelector:
■#endif
■#else
■■//Overall
■■protected ref OptionSelectorMultistate■m_OverallQualitySelector;
■■//Screen
■■protected ref OptionSelectorMultistate■m DisplayModeSelector:
■■protected ref OptionSelectorMultistate■m_ResolutionSelector;
■ protected ref OptionSelectorSlider ■ m_BrightnessSelector;
■■protected ref OptionSelectorMultistate■m_VSyncSelector;
■■//protected ref OptionSelectorMultistate■m ColorDepthSelector:
■■//Scene
■■protected ref OptionSelectorMultistate■m_ObjectDetailSelector;
■■protected ref OptionSelectorMultistate■m_TerrainDetailSelector;
■ protected ref OptionSelectorMultistate ■ m_TextureDetailSelector;
■ protected ref OptionSelectorMultistate ■ m_ShadowDetailSelector;
■■//Rendering
■■protected ref OptionSelectorMultistate■m_TextureFilteringSelector;
■■protected ref OptionSelectorMultistate■m_TerrainSurfaceDetailSelector;
■■protected ref OptionSelectorMultistate■m PPAASelector:
■ protected ref OptionSelectorMultistate ■ m_HWAASelector;
■■protected ref OptionSelectorMultistate■m_ATOCSelector;
■■protected ref OptionSelectorMultistate■m_AOSelector;
■■protected ref OptionSelectorMultistate■m_PPQualitySelector;
■■protected ref OptionSelectorMultistate■m_SSRQualitySelector;
■#endif
■#ifdef PLATFORM_CONSOLE
■#ifdef PLATFORM PS4
■■■protected ref ListOptionsAccess■■■m_FlipModeOption;
■#endif
■#else
■■protected ref ListOptionsAccess■■■m_OverallQualityOption;
■■//Screen
■■protected ref ListOptionsAccess■■■m_DisplayModeOption;
■■protected ref ListOptionsAccess■■■m_ResolutionOption;
```

■■nrotected ref NumericOntionsAccess■■m BrightnessOntion

```
// ----- Orange.c - START -----
class Orange: Edible_Base
■override bool CanBeCooked()
■ return false;
■override bool CanBeCookedOnStick()
■ return false;
■override bool IsFruit()
■ return true;
■override bool CanDecay()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatFruit);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
■}
// ----- Orange.c - END ------//
// ----- OrientalMachete.c - START -----
class OrientalMachete extends ToolBase
■void Machete()
■override bool IsMeleeFinisher()
■■return true;
■override array<int> GetValidFinishers()
```

```
// ----- OrienteeringCompass.c - START ------
class OrienteeringCompass: ItemCompass {};
// ----- OrienteeringCompass.c - END ------
// ----- OTS14.c - START -----
class OTS14 : Rifle_Base
};
// -----
// ----- OTS14.c - END -----
// -----
// ----- OvenIndoor.c - START -----
class OvenIndoor extends FireplaceBase
■protected float ■■■■m_SmokePosX;
■ protected float ■■■■ SmokePosY; ■ protected float ■■■■ SmokePosZ;
protected int■■■■m_FirePointIndex = 1; | //limited to 1 decimal place (1-9)
■static const string OVENPOINT_ACTION_SELECTION■= "oven_action";
■static const string OVENPOINT_FIRE_POSITION ■= "oven_point";
■static const string OVENPOINT PLACE ROT ■■= "oven rot":
■static const string OVENPOINT SMOKE POSITION ■= "oven smoke":
■void OvenIndoor()
■■//Particles - default for FireplaceBase
■■PARTICLE_FIRE_START ■= ParticleList.OVEN_FIRE_START;
■■PARTICLE SMALL FIRE ■= ParticleList.OVEN SMALL FIRE;
■■PARTICLE_NORMAL_FIRE■= ParticleList.OVEN_NORMAL_FIRE;
■■PARTICLE_SMALL_SMOKE ■= ParticleList.HOUSE_SMALL_SMOKE;
■■PARTICLE_NORMAL_SMOKE■= ParticleList.HOUSE_NORMAL_SMOKE;
■■PARTICLE FIRE END ■■= ParticleList.OVEN FIRE END;
■■PARTICLE_STEAM_END■■= ParticleList.BARREL_FIRE STEAM 2END;
■■//register sync variables
RegisterNetSyncVariableFloat( "m_SmokePosX", 0, 0, 2);
RegisterNetSyncVariableFloat( "m_SmokePosY", 0, 0, 2);
RegisterNetSyncVariableFloat( "m_SmokePosZ", 0, 0, 2);
■■RegisterNetSyncVariableInt("m FirePointIndex", 0, 9):
```

```
// ----- P1.c - START -----
class P1_Base : Pistol_Base
■override RecoilBase SpawnRecoilObject()
■ return new P1Recoil(this);
};
class P1 : P1_Base {};
// -----
// ----- P1.c - END -----
// -----
// ----- P1Recoil.c - START -----
class P1Recoil: RecoilBase
■override void Init()
■{
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS)
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGen
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.5;
■■m_MouseOffsetRangeMin = 75;//in degrees min
■■m_MouseOffsetRangeMax = 105;//in degrees max
■■m_MouseOffsetDistance = 1.2;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.65;//[0..1] a time it takes to move the mouse the required distance rel
■■m_CamOffsetDistance = 0.02;
■■m_CamOffsetRelativeTime = 1;
// -----
// ----- P1Recoil.c - END -----
```

// -----

```
// ----- PackagedFood.c - START ------
class Honey: Edible_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeedSmall);
■■AddAction(ActionEatSmall);
};
class Zagorky_ColorBase: Edible_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeedSmall);
■■AddAction(ActionEatSmall);
};
class Snack_ColorBase: Edible_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeedSmall);
■■AddAction(ActionEatSmall);
■}
};
// ----- PackagedFood.c - END ------//
// ----- Paddle.c - START -----
class Paddle: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionClapBearTrapWithThisItem);
};
```

```
class PainHeavySymptom extends SymptomBase
■//this is just for the Symptom parameters set-up and is called even if the Symptom doesn't execute, don't
■override void OnInit()
■■m_SymptomType = SymptomTypes.PRIMARY;
\blacksquare m_Priority = 1
■■m_ID = SymptomIDs.SYMPTOM_PAIN_HEAVY;
■■m_SyncToClient = true;
■■m_MaxCount = 2;
\blacksquare \blacksquare m_Duration = 1;
■//!gets called every frame
■override void OnUpdateServer(PlayerBase player, float deltatime)
■}
■override void OnUpdateClient(PlayerBase player, float deltatime)
■override void OnAnimationPlayFailed()
■override bool CanActivate()
■■return true;
■//!gets called once on an Symptom which is being activated
■override void OnGetActivatedServer(PlayerBase player)
■■if (LogManager.IsSymptomLogEnable())
 ■■■Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetActivated", m_Player.ToString());
■■PlaySound(EPlayerSoundEventID.TAKING_DMG_HEAVY);
■//!gets called once on a Symptom which is being activated
■override void OnGetActivatedClient(PlayerBase player)
■{
■■//player.SpawnShockEffect(0.5);
■■player.SpawnDamageDealtEffect2();
■■if (LogManager.IsSymptomLogEnable()) Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetActivation of the companies of 
■//!only gets called once on an active Symptom that is being deactivated
■override void OnGetDeactivatedServer(PlayerBase player)
■■if (LogManager.IsSymptomLogEnable()) Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetDeac
```

■//!only gets called once on an active Symptom that is being deactivated

override void OnGetDeactivatedClient(PlayerBase player)

```
----- PainKillersMdfr.c - START ------
class PainKillersMdfr: ModifierBase
■const int LIFETIME = 240;
■const int ACTIVATION_DELAY = 15;
■override void Init()
■■m_TrackActivatedTime = true;
■■m_IsPersistent = true;
■■m_ID ■■■■■= eModifiers.MDF_PAINKILLERS;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m TickIntervalActive ■= 1:
■■DisableActivateCheck();
■override bool ActivateCondition(PlayerBase player)
■■return false;
■}
■override void OnReconnect(PlayerBase player)
■■OnActivate(player);
■override string GetDebugText()
■■return (LIFETIME - GetAttachedTime()).ToString();
■override void OnActivate(PlayerBase player)
■■if (player.GetBrokenLegs() != eBrokenLegs.NO_BROKEN_LEGS)
■■■player.m_ShockHandler.SetMultiplier(0.5);//was 0.75 //Switch the shock multiplier NEED A CONST
■■player.IncreaseHealingsCount();
■■if( player.GetNotifiersManager() )
■■■player.GetNotifiersManager().ActivateByType(eNotifiers.NTF_PILLS);
■■m_Player.m_InjuryHandler.m_ForceInjuryAnimMask = m_Player.m_InjuryHandler.m_ForceInjuryAnimI
■override void OnDeactivate(PlayerBase player)
■■if (player.GetBrokenLegs() != eBrokenLegs.NO_BROKEN_LEGS)
■■■player.m_ShockHandler.SetMultiplier(1); //Reset the shock multiplier when modifier stops
■■player.DecreaseHealingsCount();
■■if( player.GetNotifiersManager() )
■■■player.GetNotifiersManager().DeactivateByType(eNotifiers.NTF_PILLS);
■■m_Player.m_InjuryHandler.m_ForceInjuryAnimMask = m_Player.m_InjuryHandler.m_ForceInjuryAnimI
■■m_Player.m_InjuryHandler.m_ForceInjuryAnimMask = m_Player.m_InjuryHandler.m_ForceInjuryAnimI
|
■override bool DeactivateCondition(PlayerBase player)
```

■■float attached_time - GetAttachedTime():

```
// ----- PainkillerTablets.c - START ------
class PainkillerTablets extends Edible_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceConsumeSingle);
■■AddAction(ActionConsumeSingle);
■override void OnConsume(float amount, PlayerBase consumer)
■■if (consumer.GetModifiersManager().IsModifierActive(eModifiers.MDF_PAINKILLERS)) // effectively re-
■■ consumer.GetModifiersManager().DeactivateModifier(eModifiers.MDF_PAINKILLERS, false);
// ----- PainkillerTablets.c - END ------//
// ------
// ----- PainLightState.c - START ------
class PainLightSymptom extends SymptomBase
■//this is just for the Symptom parameters set-up and is called even if the Symptom doesn't execute, don't
■override void OnInit()
m_SymptomType = SymptomTypes.PRIMARY;
■m_Priority = 1;
■■m_ID = SymptomIDs.SYMPTOM_PAIN_LIGHT;
■■m_SyncToClient = true;
■■m_MaxCount = 2;
\blacksquare m_Duration = 1;
■//!gets called every frame■override void OnUpdateServer(PlayerBase player, float deltatime)
■override void OnUpdateClient(PlayerBase player, float deltatime)
|
■override void OnAnimationPlayFailed()
```

```
// ----- PaintAK101.c - START ------
class PaintAK101 extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AK101");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
■■//AddResult("AK101_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
\blacksquarem_ResultSetHealth[0] = -1;//-1 = do nothing
■■ ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result class near the ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
ResultReplacesIngredient[0] = 1:// value == -1 means do nothing; a value >= 0 means this result will
```

■■*/ **■**}

```
// ----- PaintAK10130Mag.c - START -----
class PaintAK10130Mag extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = true:// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Mag_AK101_30Rnd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("Mag_AK101_30Rnd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintAK74.c - START ------
class PaintAK74 extends RecipeBase
■override void Init()
{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
■■m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AK74");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■AddResult("AK74_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classing.
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
ResultReplacesIngredient[0] = 1:// value == -1 means do nothing; a value >= 0 means this result will
```

Inverride hool CanDo(ItemBase ingredients[] PlayerBase player)

```
// ----- PaintAK7430Mag.c - START ------
class PaintAK7430Mag extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Mag_AK74_30Rnd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("Mag_AK74_30Rnd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = 1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintAK74HndgrdBlack.c - START ------
class PaintAK74HndgrdBlack extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AK74_Hndgrd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("AK74_Hndgrd_Black");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintAK74HndgrdCamo.c - START ------
class PaintAK74HndgrdCamo extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AK74_Hndgrd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("AK74_Hndgrd_Camo");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintAK74WoodBttstckBlack.c - START ------
class PaintAK74WoodBttstckBlack extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = true:// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AK74_WoodBttstck");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("AK74_WoodBttstck_Black");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintAK74WoodBttstckCamo.c - START ------
class PaintAK74WoodBttstckCamo extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AK74_WoodBttstck");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("AK74_WoodBttstck_Camo");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintAKFoldingBttstck.c - START ------
class PaintAKFoldingBttstck extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = true:// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AK_FoldingBttstck");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("AK_FoldingBttstck_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintAKMDrumMag.c - START ------
class PaintAKMDrumMag extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Mag_AKM_Drum75Rnd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("Mag_AKM_Drum75Rnd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = 1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintAKMPalm30Mag.c - START ------
class PaintAKMPalm30Mag extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Mag_AKM_Palm30Rnd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("Mag_AKM_Palm30Rnd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintAKPlasticBttstck.c - START ------
class PaintAKPlasticBttstck extends RecipeBase
■override void Init()
{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AK_PlasticBttstck");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("AK_PlasticBttstck_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintAKRailHndgrd.c - START ------
class PaintAKRailHndgrd extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AK_RailHndgrd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("AK_RailHndgrd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintAKS74U.c - START ------
class PaintAKS74U extends RecipeBase
■override void Init()
{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AKS74U");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("AKS74U_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintAKS74UBttstck.c - START ------
class PaintAKS74UBttstck extends RecipeBase
■override void Init()
{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = true:// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AKS74U_Bttstck");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("AKS74U_Bttstck_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintAKWoodBttstckBlack.c - START ------
class PaintAKWoodBttstckBlack extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AK_WoodBttstck");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("AK_WoodBttstck_Black");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintAKWoodBttstckCamo.c - START ------
class PaintAKWoodBttstckCamo extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"AK_WoodBttstck");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("AK_WoodBttstck_Camo");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintB95.c - START ------
class PaintB95 extends RecipeBase
■override void Init()
{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"B95");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("B95_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintBallisticHelmet.c - START ------
class PaintBallisticHelmet extends RecipeBase
■override void Init()
{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"BallisticHelmet_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("BallisticHelmet_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintCMAG10.c - START ------
class PaintCMAG10 extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Mag_CMAG_10Rnd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("Mag_CMAG_10Rnd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classifier.
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintCMAG20.c - START ------
class PaintCMAG20 extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Mag_CMAG_20Rnd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("Mag_CMAG_20Rnd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classifier.
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintCMAG30.c - START ------
class PaintCMAG30 extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Mag_CMAG_30Rnd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("Mag_CMAG_30Rnd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classifier.
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintCMAG40.c - START ------
class PaintCMAG40 extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Mag_CMAG_40Rnd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("Mag_CMAG_40Rnd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classifier.
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintCz527.c - START ------
class PaintCz527 extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"CZ527");//you can insert multiple ingredients this way
\blacksquare \blacksquare m_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("CZ527_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintCz527CamoBlack.c - START ------
class PaintCz527CamoBlack extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"CZ527_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("CZ527_Camo");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintCz527CamoGreen.c - START ------
class PaintCz527CamoGreen extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"CZ527_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("CZ527_Camo");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintDarkMotohelmet.c - START ------
class PaintDarkMotohelmet extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"DarkMotoHelmet_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("DarkMotoHelmet_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintFirefighterAxe.c - START ------
class PaintFirefighterAxe extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"FirefighterAxe");//you can insert multiple ingredients this way
\blacksquare \blacksquare m_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("FirefighterAxe_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintGhillieAttBlack.c - START ------
class PaintGhillieAttBlack extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 40;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -40;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = true:// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1, "GhillieAtt_Woodland");//you can insert multiple ingredients this way
\blacksquare \blacksquare m_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("GhillieAtt_Mossy");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintGhillieAttGreen.c - START ------
class PaintGhillieAttGreen extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
■■m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 40;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -40;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"GhillieAtt_Tan");//you can insert multiple ingredients this way
\blacksquare \blacksquare m_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
■■AddResult("GhillieAtt_Woodland");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
\blacksquarem_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

■override bool CanDo(ItemBase ingredients[] PlayerBase player)//final check for recipe's validity

```
// ----- PaintGhillieAttGreenMossy.c - START ------
class PaintGhillieAttGreenMossy extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 40;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -40;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"GhillieAtt_Mossy");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("GhillieAtt_Woodland");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintGhillieBushragBlack.c - START ------
class PaintGhillieBushragBlack extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 50;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -50;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1, "GhillieBushrag_Woodland");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
-/*
■■AddResult("GhillieBushrag_Mossy");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintGhillieBushragGreen.c - START ------
class PaintGhillieBushragGreen extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
■■m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 50;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -50;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = true:// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1, "GhillieBushrag_Tan");//you can insert multiple ingredients this way
\blacksquare \blacksquare m_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
■■AddResult("GhillieBushrag_Woodland");//add results here
m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = 0;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

■override hool CanDo(ItemRase ingredients[] PlayerRase player)//final check for recipe's validity

```
// ----- PaintGhillieBushragGreenMossy.c - START ------
class PaintGhillieBushragGreenMossy extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 50;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -50;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"GhillieBushrag_Mossy");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
-/*
■■AddResult("GhillieBushrag_Woodland");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintGhillieHoodBlack.c - START ------
class PaintGhillieHoodBlack extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
■■m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 40;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ m_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -40;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"GhillieHood_Woodland");//you can insert multiple ingredients this way
\blacksquare \blacksquare m_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
■■AddResult("GhillieHood_Mossy");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
\blacksquarem_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

■override bool CanDo(ItemBase ingredients[] PlayerBase player)//final check for recipe's validity

```
// ----- PaintGhillieHoodGreen.c - START ------
class PaintGhillieHoodGreen extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 40;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -40;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"GhillieHood_Tan");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
-/*
■■AddResult("GhillieHood_Woodland");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintGhillieHoodGreenMossy.c - START ------
class PaintGhillieHoodGreenMossy extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 40;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -40;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = true:// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"GhillieHood_Mossy");//you can insert multiple ingredients this way
\blacksquare \blacksquare m_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
-/*
■■AddResult("GhillieHood_Woodland");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintGhillieSuitBlack.c - START ------
class PaintGhillieSuitBlack extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
■■m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 90;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -90;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = true:// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"GhillieSuit_Woodland");//you can insert multiple ingredients this way
\blacksquare \blacksquare m_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■AddResult("GhillieSuit_Mossy");//add results here
m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
\blacksquarem_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

■override hool CanDo(ItemRase ingredients[] PlayerRase player)//final check for recipe's validity

```
// ----- PaintGhillieSuitGreen.c - START ------
class PaintGhillieSuitGreen extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 90;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -90;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1, "GhillieSuit_Tan");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("GhillieSuit_Woodland");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintGhillieSuitGreenMossy.c - START ------
class PaintGhillieSuitGreenMossy extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 90;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -90;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1, "GhillieSuit_Mossy");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("GhillieSuit_Woodland");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintGhillieTopBlack.c - START ------
class PaintGhillieTopBlack extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 75;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -75;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"GhillieTop_Woodland");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("GhillieTop_Mossy");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintGhillieTopGreen.c - START ------
class PaintGhillieTopGreen extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 75;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -75;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1, "GhillieTop_Tan");//you can insert multiple ingredients this way
\blacksquare \blacksquare m_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("GhillieTop_Woodland");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintGhillieTopGreenMossy.c - START ------
class PaintGhillieTopGreenMossy extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 75;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -75;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1, "GhillieTop_Mossy");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("GhillieTop_Woodland");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in 
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- PaintGorkaHelmet.c - START ------
class PaintGorkaHelmet extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1, "GorkaHelmet");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("GorkaHelmet_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintGorkaHelmetComplete.c - START ------
class PaintGorkaHelmetComplete extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1, "GorkaHelmetComplete");//you can insert multiple ingredients this way
\blacksquare \blacksquare m_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("GorkaHelmetComplete_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = 1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere in
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintItem.c - START -----
class PaintItem
■//! WIll open the 'item_target' by spawning a new entity and transferring item variables to the new one
■static void Paint(ItemBase item_tool, ItemBase item_target, string base_name, PlayerBase player, float string base_name, float string base_name, float string base_name, float string base_name, fl
■ string spray_color = item_tool.ConfigGetString("color");
■string item_color = item_target.ConfigGetString("color");
■■string new_class_name = base_name + "_" + spray_color;
PaintItem.SwitchItems(item_target, new_class_name, player);
■static bool CanPaintItem(ItemBase item_tool, ItemBase item_target)
string spray_color = item_tool.ConfigGetString("color");
■■string item_color = item_target.ConfigGetString("color");
■■if( spray_color != item_color )
■■return true;
——}
■■else
----
■■return false;
--
|
■//! Will switch the 'item' for a new game entity, the new entity's classname will be formed by adding the 's
■static void SwitchItems (EntityAl old_item, string new_item, PlayerBase player)
■■MiscGameplayFunctions.TurnItemIntoItemEx(player, new PaintItemLambda(old_item, new_item, player)
};
class PaintItemLambda: TurnItemIntoItemLambda
■void PaintItemLambda (EntityAl old_item, string new_item_type, PlayerBase player) { }
}:
// -----
// ----- PaintItem.c - END -----
// ----- PaintM4A1.c - START -----
class PaintM4A1 extends RecipeBase
■override void Init()
■ m_Name = "#STR_paint0";
```

■■m IsInstaRecine – false://should this recine he performed instantly without animation

```
// ----- PaintM4CQBBttstck.c - START ------
class PaintM4CQBBttstck extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"M4_CQBBttstck");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("M4_CQBBttstck_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintM4MPBttstck.c - START ------
class PaintM4MPBttstck extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"M4_MPBttstck");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("M4_MPBttstck_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintM4MPHndgrd.c - START ------
class PaintM4MPHndgrd extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"M4_MPHndgrd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("M4_MPHndgrd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classing
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintM4OEBttstck.c - START ------
class PaintM4OEBttstck extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"M4_OEBttstck");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("M4_OEBttstck_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintM4PlasticHndgrd.c - START ------
class PaintM4PlasticHndgrd extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"M4_PlasticHndgrd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("M4_PlasticHndgrd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result
```

```
// ----- PaintM4RISHndgrd.c - START ------
class PaintM4RISHndgrd extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = true:// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"M4_RISHndgrd");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("M4_RISHndgrd_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classing
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result
```

```
// ----- PaintMosin.c - START ------
class PaintMosin extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
m IngredientUseSoftSkills[0] = true:// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Mosin9130");//you can insert multiple ingredients this way
■■InsertIngredient(1,"Mosin9130_Black");//you can insert multiple ingredients this way
■■InsertIngredient(1,"Mosin9130_Green");//you can insert multiple ingredients this way
■■InsertIngredient(1,"Mosin9130_Camo");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[1] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■AddResult("Mosin9130_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
```

■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultIseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this result

```
// ----- PaintMosinCamoBlack.c - START ------
class PaintMosinCamoBlack extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Mosin9130_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("Mosin9130_Camo");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintMosinCamoGreen.c - START ------
class PaintMosinCamoGreen extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Mosin9130_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("Mosin9130_Camo");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintMotohelmet.c - START ------
class PaintMotohelmet extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"MotoHelmet_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("MotoHelmet_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintRuger1022.c - START ------
class PaintRuger1022 extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Ruger1022");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("Ruger1022_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classing
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result
```

```
// ----- PaintSawedoffMosin.c - START ------
class PaintSawedoffMosin extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"SawedoffMosin9130");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("SawedoffMosin9130_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result
```

```
// ----- PaintSawedoffMosinCamoBlack.c - START ------
class PaintSawedoffMosinCamoBlack extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"SawedoffMosin9130_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("SawedoffMosin9130_Camo");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintSawedoffMosinCamoGreen.c - START ------
class PaintSawedoffMosinCamoGreen extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Spraycan_Green");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"SawedoffMosin9130_Black");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("SawedoffMosin9130_Camo");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintSKS.c - START ------
class PaintSKS extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"SKS");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("SKS_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- PaintZSh3PilotHelmet.c - START ------
class PaintZSh3PilotHelmet extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_paint0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 25;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Spraycan_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -25;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"ZSh3PilotHelmet");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
-----
■■//result1
-/*
■■AddResult("ZSh3PilotHelmet_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = -1;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
```

```
// ----- Paper.c - START ------
class Paper extends ItemBase
■protected ref WrittenNoteData m_NoteContents;
■void Paper()
m_NoteContents = new WrittenNoteData(this);
■void ~Paper() {}
■override bool OnStoreLoad(ParamsReadContext ctx, int version)
■■if (!super.OnStoreLoad(ctx, version))
■■return false;
 Image: Imag
 ■■■return false:
■ return true;
■override void OnStoreSave(ParamsWriteContext ctx)
■■super.OnStoreSave(ctx);
 ■■ctx.Write(m_NoteContents);■■
■override WrittenNoteData GetWrittenNoteData()
 ■ return m_NoteContents;
■// IGNITION ACTION
■override bool HasFlammableMaterial()
■■return true;
■override bool CanBelgnitedBy(EntityAl igniter = null)
■ return !GetHierarchyParent();
■override bool CanIgniteItem(EntityAl ignite_target = null)
■ return false;
■override void OnIgnitedTarget(EntityAl ignited_item) {}
 ■override void OnIgnitedThis(EntityAl fire_source)
```

■Fireplace.IgniteEntityAsFireplace(this, fire_source);

```
// ----- param.c - START ------
* \defgroup Tools Tools
* \desc Helpful functions & classes
\brief Base Param Class with no parameters. Used as general purpose parameter overloaded with Param
class Param: Managed
■bool Serialize(Serializer ctx)
■ return false;
■bool Deserializer(Serializer ctx)
■ return false;
};
\brief Param Class Template with one parameter.
\n usage:
@code
Param paramA = new Param1<int>(55);
Param paramB = new Param1<string>("Hello");
class Param1<Class T1> extends Param
■T1 param1;
■void Param1(T1 p1)
\blacksquareparam1 = p1;
■override bool Serialize(Serializer ctx)
■ return ctx.Write(param1);
■override bool Deserializer(Serializer ctx)
■ ireturn ctx.Read(param1);
};
\brief Param Class Template with two parameters.
\n usage:
Param param = new Param2<float, string>(3.14, "Pi");
```

@endcode

```
// ----- ParamedicJacket_ColorBase.c - START ------
class ParamedicJacket_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class ParamedicJacket_Blue extends ParamedicJacket_ColorBase {};
class ParamedicJacket_Crimson extends ParamedicJacket_ColorBase {};
class ParamedicJacket_Green extends ParamedicJacket_ColorBase {};
// ----- ParamedicJacket_ColorBase.c - END ------
// ----- ParamedicPants_ColorBase.c - START ------
class ParamedicPants_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class ParamedicPants_Blue extends ParamedicPants_ColorBase {};
class ParamedicPants_Crimson extends ParamedicPants_ColorBase {};
class ParamedicPants_Green extends ParamedicPants_ColorBase {};
// ----- ParamedicPants_ColorBase.c - END ------
// -----
// ----- Particle.c - START -----
// -----
\brief Legacy way of using particles in the game
*■\note They work okay when just needing to play a particle once every once in a while
*But are extremely wasteful when it comes to playing multiple Particles at the same time
class Particle: ParticleBase
■■Generic data for the Particle
```

ID from Particlel ist if assigned.

```
// ----- ParticleBase.c - START ------
\brief Invokers for ParticleBase events, called from events
■@code
■void EnableOnEndPrint(ParticleBase psrc)
■■psrc.GetEvents().Event_OnParticleEnd.Insert(PrintParticleEnded);
■void PrintParticleEnded(ParticleBase psrc)
Print(string.Format("%1 ended.", psrc.GetDebugNameNative());
■@endcode
class ParticleEvents
■\brief Called when particle starts playing
■■\note Particle: Called when any Play method has been called
■■\note ParticleSource: Called when PlayParticleNative is successful
■ref ScriptInvoker Event_OnParticleStart = new ScriptInvoker();
■\brief Called when particle stops playing
■■\note Particle: Called when any Stop method has been called or when lifetime is over
■■\note ParticleSource: Called when StopParticleNative is successful, when the particle ends and when t
■ref ScriptInvoker Event_OnParticleStop = new ScriptInvoker();
■\brief Called when particle is reset
■■\note Particle: Not present, there is no reset functionality
■■\note ParticleSource: Called when ResetParticleNative is successful
*/
■ref ScriptInvoker Event_OnParticleReset = new ScriptInvoker();
■\brief Called when particle ends
■■\note Particle: Called when lifetime is over and there are no emitors active anymore
■■\note ParticleSource: Called when particle ends naturally or after the particle is stopped and there are r
■■\warning Looped never ends naturally and need to be stopped
*/
■ref ScriptInvoker Event_OnParticleEnd = new ScriptInvoker();
■\brief Called when particle receives a parent
■■\note Particle: Not present
■ref ScriptInvoker Event_OnParticleParented = new ScriptInvoker();
■\brief Called when particle is orphaned
■■\note Particle: Not present
■ref ScriptInvoker Event_OnParticleUnParented = new ScriptInvoker();
\brief Engine base class with internal functionality
■\note Is NOT intended for direct creation
```

* As this does not have an actual particle

```
// ----- ParticleList.c - START ------
// Register all particles below!
// Example how to register particles from a mod
modded class ParticleList
■static const int MODDED_PARTICLE = RegisterParticle( "mod_folder/" , "my_modded_particle");
class ParticleList
■ref static map<int, string> m_ParticlePaths; // Contains full paths to all particles. WARNING: Paths are w
■ref static map<string, int> m_ParticleNames; // Contains file NAME (without suffix) to id.
■static int m_lastID = 0;
■// REGISTER ALL PARTICLES BELOW:
■static const int INVALID■■■■■= -1;
■static const int NONE■■■■■■■ 0; // 0 does not exist either, valid particle starts from 1
■static const int PARTICLE_TEST■■■■ = RegisterParticle("_test_orientation");
■static const int DEBUG_DOT■■■■■ RegisterParticle("debug_dot");
■// FIREPLACE■
■// Normal fireplace
■static const int CAMP_FIRE_START■■■ RegisterParticle("fire_small_camp_01_start");
■static const int CAMP_SMALL_FIRE ■■■■= RegisterParticle("fire_small_camp_01");
■ static const int CAMP_NORMAL_FIRE ■ ■ RegisterParticle("fire_medium_camp_01");
■ static const int CAMP_SMALL_SMOKE ■ RegisterParticle("smoke_small_camp_01");
■ static const int CAMP_NORMAL_SMOKE ■ RegisterParticle("smoke_medium_camp_01");
■static const int CAMP_FIRE_END■■■■■ RegisterParticle("fire_small_camp_01_end");
■ static const int CAMP_STEAM_2END■■■ RegisterParticle("steam_medium_camp_2end"); ■ static const int CAMP_STEAM_EXTINGUISH_START RegisterParticle("default_01");
■static const int CAMP_STOVE_FIRE ■■■■ RegisterParticle ("fire_small_stove_01");
■ static const int CAMP_STOVE_FIRE_START■■ = RegisterParticle("fire_small_stove_01_start");
■ static const int CAMP_STOVE_FIRE_END■■■ = RegisterParticle("fire_small_stove_01_end");
■static const int CAMP_NO_IGNITE_WIND■■ RegisterParticle("fire_extinguish_wind");
■// Fireplace indoor
■ static const int HOUSE_FIRE_START■■■ RegisterParticle("fire_small_house_01_start");
■ static const int HOUSE_SMALL_FIRE ■■■■ RegisterParticle("fire_small_house_01");
■ static const int HOUSE_SMALL_SMOKE ■■■■ RegisterParticle("smoke_small_house_01");
■static const int HOUSE_NORMAL_FIRE■■■■= RegisterParticle("fire_medium_house_01");
■ static const int HOUSE_NORMAL_SMOKE ■ RegisterParticle("smoke_medium_house_01"); ■ static const int HOUSE_FIRE_END ■ RegisterParticle("fire_small_house_01_end");
■static const int HOUSE_FIRE_STEAM_2END■■■= RegisterParticle("steam_medium_house_2end");
■// Fireplace in barrel with holes
■ static const int BARREL_FIRE_START■■■■ = RegisterParticle("fire_small_barrel_01_start");
■ static const int BARREL_SMALL_FIRE ■■■■ = RegisterParticle("fire_small_barrel_01");
■static const int BARREL_SMALL_SMOKE ■■■= RegisterParticle("smoke_small_barrel_01");
■ static const int BARREL_NORMAL_FIRE ■ ■ RegisterParticle("fire_medium_barrel_01");

■ static const int BARREL_NORMAL_SMOKE ■ RegisterParticle("smoke_medium_barrel_01");
■static const int BARREL_FIRE_END■■■■= RegisterParticle("fire_small_barrel_01_end");
■static const int BARREL_FIRE_STEAM_2END■■= RegisterParticle("steam_medium_camp_2end");
■// Fireplace in indoor oven
■static const int OVEN_FIRE_START■■■= RegisterParticle("fire_small_oven_01_start");
■ static const int OVEN_SMALL_FIRE ■■■■ = RegisterParticle("fire_small_oven_01");
■ static const int OVEN_NORMAL_FIRE ■■■■ = RegisterParticle("fire_medium_oven_01");
```

```
// ----- ParticleManager.c - START -----
//! Flags for ParticleManagerSettings
enum ParticleManagerSettingsFlags
■NONE.
■//! Particles will be locked to the index and not reused
■FIXED INDEX,
■//! Allocation blocks the game until it is done
■BLOCKING.
■//! Disable the creation of virtual particles when the pool is still allocating
■DISABLE_VIRTUAL,
■//! Reuse stopped particles even if they are owned by something
■REUSE_OWNED,
};
//! Class simply to have easily modded constants
class ParticleManagerConstants
/** \name Global ParticleManager settings
■■Settings applied to the global ParticleManager
*/
I//@{
■static const int POOL_SIZE = 10000;
■static const int FLAGS = ParticleManagerSettingsFlags.NONE;
■//@}
//! Settings given to ParticleManager on creation (in ctor)
class ParticleManagerSettings
■\brief Constructor (ctor)
■■\param poolSize \p int Size of pool (amount of created and reserved particles)
■■\param flags \p int ParticleManagerSettingsFlags
■void ParticleManagerSettings(int poolSize, int flags = ParticleManagerSettingsFlags.NONE)
•{
■//! dtor
■void ~ParticleManagerSettings()
■}
//! Invokers for ParticleManager events
class ParticleManagerEvents
■ref ScriptInvoker Event_OnAllocation = new ScriptInvoker();
■ref ScriptInvoker Event_OnAllocationEnd = new ScriptInvoker();
//! Has a fixed pool of precreated and reserved particles
class ParticleManager : Managed
■//! Static ParticleManager
■private static ref ParticleManager g_ParticleManager;
```

■//I Access to the static ParticleManager

```
// ----- ParticleSource.c - START ------
//! Flags to pass to ParticleSource.SetParticleAutoDestroyFlags
enum ParticleAutoDestroyFlags
■//! No automatic destroying
■NONE.
■//! Destroy when the Particle ends (looping particle never ends)
■ON END,
■//! Destroy when particle stops
■ON_STOP
■//! ON_END | ON_STOP
■ALL,
//! Flags to pass to ParticleSource.PlayParticleEx
enum PlayParticleFlags
■//! No flags
■NONE,■■
■// Is just a placeholder for now
//! Flags to pass to ParticleSource.StopParticle
enum StopParticleFlags
■//! No flags
■NONE,
■//! Reset state after stopping
■RESET.
■\brief Flag will make the particle stop immediately, taking it out of simulation and clearing VISIBLE flag
■*■\note By default the particle will gradually fade
■*■\note Note that when using IMMEDIATE, it is possible to call PlayParticle and it will resume from the n
■*■■ Which is not possible by default, as the gradual fade is accomplished by nulling the lifetime
■IMMEDIATE,
■//! Is default behaviour, but can be used in conjuction with IMMEDIATE which hides it when this flag is no
■VISIBLE.
■//! (SPF_IMMEDIATE | SPF_VISIBLE) "Freezes" the particle while keeping it visible
■PAUSE,
//! Mode for GetParticle
enum EGetParticleMode
■//! Full path with ext ■■("graphics/particles/smoking_barrel_small.ptc")
■FULL,
■//! Full path without ext ■("graphics/particles/smoking_barrel_small")
■//! Filename only ■■■("smoking_barrel_small")
■FILE,
enum ParticlePropertiesFlags
■NONE.
■//! Makes the particle start playing immediately after being created
■PLAY ON CREATION.
```

■//I Only applicable when there is a parent, this will force the localOri to be in world space instead of local

```
// ----- ParticleTest.c - START ------
// Particle test for Maxman
class ParticleTest extends ItemBase
■protected int■PARTICLE_PATH;
■protected Particle ■m_Particle;
I// Constructor
■void ParticleTest()
■■if (!GetGame().IsServer() | !GetGame().IsMultiplayer()) // Client side
■■string path = ParticleList.GetPathToParticles();
■■■// Enter particle ID to play when ParticleTest spawns
■■■PARTICLE_PATH = ParticleList.DEBUG_DOT;
■■■// Alternatively, uncomment the second line and enter particle filename without *.ptc suffix instead. Ex
■■string particle_filename = "menu_engine_fire";
■■■//PARTICLE_PATH = ParticleList.GetParticleID( path + particle_filename );
■■■m_Particle = ParticleManager.GetInstance().PlayOnObject( PARTICLE_PATH, this, GetPosition());
==}
■// Destructor
■override void EEDelete(EntityAl parent)
■■super.EEDelete(parent);
■■if (m_Particle && GetGame()) // GetGame() is null when the game is being shut down
■■■m_Particle.Stop();
■■GetGame().ObjectDelete(m_Particle);
■}
// ----- ParticleTest.c - END ------
// ----- PartyLight.c - START -----
```

class Partyl ight extends PointLightRase

```
----- PartyTent.c - START -----
class PartyTent extends TentBase
■void PartyTent()
■{
■ ToggleAnimations.Insert( new ToggleAnimations("Door1o", "Door1c", OPENING_0), 0 );
■ ToggleAnimations.Insert( new ToggleAnimations("Door2o", "Door2c", OPENING_1), 0 );
■ ToggleAnimations.Insert( new ToggleAnimations("Door3o", "Door3c", OPENING_2), 0 );
■ ToggleAnimations.Insert( new ToggleAnimations("Door4o", "Door4c", OPENING_3), 0 );
■ ToggleAnimations.Insert( new ToggleAnimations("Door5o", "Door5c", OPENING_4), 0 );
■ ToggleAnimations.Insert( new ToggleAnimations("Door6o", "Door6c", OPENING_5), 0 );
==m_ShowAnimationsWhenPitched.Insert( "Body" );
■■m_ShowAnimationsWhenPitched.Insert( "Pack" );
■■/*m_ShowAnimationsWhenPitched.Insert( "Door1o" );
■■m_ShowAnimationsWhenPitched.Insert( "Door2o" ■■m_ShowAnimationsWhenPitched.Insert( "Door3o"
■■m_ShowAnimationsWhenPitched.Insert( "Door4o"
■■m_ShowAnimationsWhenPitched.Insert( "Door5o"
■■m ShowAnimationsWhenPitched.Insert( "Door6o"
■■m_ShowAnimationsWhenPacked.Insert( "Inventory" );
\blacksquarem_HalfExtents = Vector(1.3, 0.35, 2.7);
■override string GetSoundOpen()
■■return "LargeTent_Door_Open_SoundSet";
■override string GetSoundClose()
■■return "LargeTent_Door_Close_SoundSet";
■override string GetSoundOpenWindow()
■■return "LargeTent_Window_Open_SoundSet";
■override string GetSoundCloseWindow()
■ return "LargeTent_Window_Close_SoundSet";
■override bool HasClutterCutter()
 ■return true;
■override string GetClutterCutter()
■■return "LargeTentClutterCutter"; //TODO add custom clutter cutter?
■// ADVANCED PLACEMENT
```

```
// ----- PatchItem.c - START -----
class PatchItem extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_PatchItem0";
■■m IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = -0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = 1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"LeatherSewingKit");//you can insert multiple ingredients this way
■■InsertIngredient(0,"SewingKit");//you can insert multiple ingredients this way
■■InsertIngredient(0, "TireRepairKit");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[0] = 0;// 0 = do nothing
■■m_IngredientSetHealth[0] = -1; // -1 = do nothing
■ Ingredient Add Quantity [0] = 0; // 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Inventory_Base");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m_IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = -1;// (value) = -1 means do nothing; a (value) >= 0 means this result will i
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class == -1 means do nothing; a (value) == 0 means this result class == -1 place anywhere i
```

m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result m. ResultReplacesIngredient[0] = 1:// value == 1 means do nothing; a value >= 0 means this result w

```
// ----- PBOAPI.c - START -----
class PBOAPI
■proto native owned string GetPBOVersion(string openName);
static proto native PBOAPI GetPBOAPI();
// ----- PBOAPI.c - END ------
// -----
// ----- PeachesCan.c - START -----
class PeachesCan: Edible_Base
■override void Open()
■■//super.Open();
■■ReplaceEdibleWithNew("PeachesCan_Opened");
■override bool IsOpen()
■ return false;
// ----- PeachesCan.c - END -----
// ----- PeachesCan_Opened.c - START ------
class PeachesCan_Opened: Edible_Base
■override bool CanDecay()
■ return true;
■override bool CanProcessDecay()
■ ireturn !(GetAgents() & eAgents.FOOD_POISON);
■override void SetActions()
```

```
// ----- Pear.c - START ------
class Pear : Edible_Base
■override bool CanBeCooked()
■return true;
■override bool CanBeCookedOnStick()
■ return true;
■override bool IsFruit()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatFruit);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
•}
■override bool CanDecay()
■ return true;
■override void EEOnCECreate()
\blacksquareint rand = Math.RandomInt(0,10);
■If (rand > 6)
■■ ChangeFoodStage(FoodStageType.ROTTEN);
■■■ SetHealth("", "", GetMaxHealth()*0.1);
■■else if (rand > 2)
■■ ChangeFoodStage(FoodStageType.DRIED);
SetHealth("", "", GetMaxHealth()*0.4);
| | |
■}
// ----- Pear.c - END -----
```

```
// ----- PeelPotato.c - START ------
class PeelPotato extends RecipeBase
■override void Init()
{
■■m_Name = "#PeelPotato";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
 ■■m_AnywhereInInventory = false;//is this recipe valid even when neither of the items is in hands
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"PotatoSeed");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = true;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Sickle");
■■InsertIngredient(1,"KukriKnife");
■■InsertIngredient(1,"FangeKnife");
■■InsertIngredient(1,"Hacksaw");
Insertingredient(1, Hacksaw ),
Insertingredient(1,"KitchenKnife");
Insertingredient(1,"SteakKnife");
Insertingredient(1,"StoneKnife");
Insertingredient(1,"Cleaver");
Insertingredient(1,"CombatKnife");
Insertingredient(1,"HuntingKnife");
■■InsertIngredient(1, "Machete");
■■InsertIngredient(1,"CrudeMachete");
■■InsertIngredient(1,"OrientalMachete");
■■InsertIngredient(1,"AK_Bayonet");
■■InsertIngredient(1,"M9A1_Bayonet");
Insertingredient(1, M9A1_Bayonet ),
Insertingredient(1, "Mosin_Bayonet");
Insertingredient(1, "SKS_Bayonet");
Insertingredient(1, "Wrench");
Insertingredient(1, "Screwdriver");
Insertingredient(1, "Hatchet");
Insertingredient(1, "HandSaw");
```

■■InsertIngredient(1,"BoneKnife");

```
// ----- Pelt_Base.c - START -----
class Pelt_Base extends ItemBase
■override bool IsPeltBase()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionAttach);
■■AddAction(ActionDetach);
class WildboarPelt: Pelt_Base { };
class RabbitPelt: Pelt_Base { };
class CowPelt: Pelt_Base { };
class PigPelt: Pelt_Base { `};
class DeerPelt: Pelt_Base { };
class GoatPelt: Pelt_Base { };
class BearPelt: Pelt_Base { };
class WolfPelt: Pelt_Base { };
class SheepPelt: Pelt_Base { };
class MouflonPelt: Pelt_Base { };
class FoxPelt: Pelt_Base { };
// -----
/// ------ Pelt_Base.c - END -------/// -------
// -----
// ----- Pen_Black.c - START -----
// -----
// -----
/// ------ Pen_Black.c - END -------/// -------
// ----- Pen_Blue.c - START ------
// ----- Pen_Blue.c - END -----
```

```
// ----- Pen_ColorBase.c - START ------//
class Pen_ColorBase: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWritePaper);
class Pen_Black: Pen_ColorBase {};
class Pen_Red: Pen_ColorBase {};
class Pen_Green: Pen_ColorBase {};
class Pen_Blue: Pen_ColorBase {};
// ----- Pen_ColorBase.c - END ------//
// -----
// ----- Pen_Green.c - START ------//
// ----- Pen_Green.c - END ------//
// ----- Pen_Red.c - START -----
// -----
// ----- Pen_Red.c - END -----
// -----
// ----- PepperSeedsPack.c - START -------//
class PepperSeedsPack extends SeedPackBase
...... PennerSeedsPack c - FND ------
```

```
// ----- PersistentFlag.c - START -----
// These are flags which are persistent for the player entity, ie. are saved when the player is disconnected
// Normal persistence events OnStoreSave/OnStoreLoad are used to save/load these flags within a single
// !!! Every value needs to be a power of 2 !!!
enum PersistentFlag
■AREA_PRESENCE = 1;
\blacksquare//ADDITIONAL_FLAG_1 = 2
■//ADDITIONAL_FLAG_2 = 4
■//ADDITIONAL_FLAG_3 = 8
■//ADDITIONAL FLAG 4 = 16
// -----
// ----- PersistentFlag.c - END ------
// -----
// -----
// ----- PersonalLight.c - START -----
// -----
class PersonalLight extends PointLightBase
■void PersonalLight()
■■SetVisibleDuringDaylight(false);
■■SetRadiusTo(3);
■■SetBrightnessTo(0.38);
■SetDiffuseColor(0.2, 0.23, 0.25);
■■SetCastShadow(false);
■■EnableSpecular(false);
■EnableLinear(true);
■■SetFlareVisible(false);
■override void OnFrameLightSource(IEntity other, float timeSlice)
■■if ( GetGame() && IsEnabled() )
■■■vector pos = GetGame().GetCurrentCameraPosition();
■■pos += Vector(0, -0.4, 0);
■■■SetPosition( pos );
■// Experiment with dynamic range of Personal Light based on distance between camera and player's cha
■/*override void OnFrameLightSource(IEntity other, float timeSlice)
■■if ( GetGame() && IsEnabled() )
■■vector pos = GetGame().GetCurrentCameraPosition();
■■■vector dir = GetGame().GetCurrentCameraDirection();
```

■■SetPosition(nos)·

```
----- PersonalRadio.c - START -----
class PersonalRadio extends TransmitterBase
■void PersonalRadio()
■■SOUND_RADIO_TURNED_ON = "personal radio_staticnoise_SoundSet";
■override void OnDebugSpawn()
■■GetInventory().CreateInInventory("Battery9V");
// ----- PersonalRadio.c - END -------//
// ----- PetrolLighter.c - START -----
class PetrolLighter extends ItemBase
■override bool CanIgniteItem( EntityAl ignite_target = NULL)
■■if ( GetQuantity() > 0 )
■■return true;
■else
■■ return false;
■override void OnIgnitedTarget( EntityAl ignited_item )
■■if ( GetGame().IsServer() )
■■AddQuantity( -0.5 );
|
■override void OnIgnitedTargetFailed( EntityAl target_item )
■■if ( GetGame().IsServer() )
■■■AddQuantity( -0.5 );
■override bool IsTargetIgnitionSuccessful( EntityAl item_target = NULL )
```

■override void SetActions()

```
// ----- PickAxe.c - START -----
class Pickaxe extends ItemBase
■override bool CanMakeGardenplot()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionTogglePlaceObject);
■■AddAction(ActionDigGardenPlot);
■■AddAction(ActionDismantleGardenPlot);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionMineRock);
■■AddAction(ActionDismantlePart);
■■AddAction(ActionBuildPart);
■■AddAction(ActionBuryBody);
■■AddAction(ActionBuryAshes);
■■AddAction(ActionDigWorms);
■■AddAction(ActionSkinning);
■■AddAction(ActionDigOutStash);
■■AddAction(ActionDigInStash);
■■AddAction(ActionCreateGreenhouseGardenPlot);
}
// ----- PickAxe.c - END ------//
// -----
// ----- PigSteakMeat.c - START ------
class PigSteakMeat extends Edible_Base
■override bool CanBeCooked()
■return true;
}
■override bool CanBeCookedOnStick()
■ return true;
■override bool IsMeat()
■ return true;
■override bool CanDecay()
```

```
----- PileOfWoodenPlanks.c - START ------
class PileOfWoodenPlanks extends ItemBase
■void PileOfWoodenPlanks()
•{
■■if ( GetGame().IsServer() )
■■SetAllowDamage(false);
| | |
■}
■// Shows/Hides selections. Call this in init or after every quantity change.
■void UpdateSelections()
■■RemoveProxyPhysics( "stage_1" );
■RemoveProxyPhysics( "stage_2" );
■RemoveProxyPhysics( "stage_3" );
■■// Show/Hide selections according to the current quantity
■if (this)
■■■float quantity = GetQuantity();
■■■float quantity_max = GetQuantityMax();
■■■if ( quantity > GetQuantityMax() *0.66 )
■■■// Show 3/3 amount of planks
ShowSelection ( "stage_3" );
HideSelection ( "stage_2" );
HideSelection ( "stage_1" );
■■■■AddProxyPhysics( "stage_3" );
■■■if ( quantity > quantity_max *0.33 && quantity <= quantity_max *0.66 )
■■■// Show 2/3 amount of planks
HideSelection ("stage_3");
ShowSelection ("stage_2");
■■■HideSelection ("stage_1");
■■■■AddProxyPhysics( "stage_2" );
 ■■■if ( quantity > 0 && quantity <= quantity_max *0.33 )
■■■// Show 1/3 amount of planks
HideSelection ( "stage_3" );
HideSelection ( "stage_2" );
■■■ShowSelection ( "stage_1" );
■■■AddProxyPhysics( "stage_1" );
■■■if(quantity == 0)
■■■// Show 0 planks. Object should be deleted now.
■■■HideSelection ( "stage_3" );
■■■HideSelection ( "stage_2" );
```

```
....// ----- PillsNotfr.c - START ------
class PillsNotfr: NotifierBase
■void PillsNotfr(NotifiersManager manager)
■ m_Active = false;
■override int GetNotifierType()
■ return eNotifiers.NTF_PILLS;
■override void DisplayBadge()
■■DisplayElementBadge dis_elm = DisplayElementBadge.Cast(GetVirtualHud().GetElement(eDisplayEle
■■if( dis_elm )
■■dis_elm.SetLevel(eBadgeLevel.FIRST);
■override void HideBadge()
■■DisplayElementBadge dis_elm = DisplayElementBadge.Cast(GetVirtualHud().GetElement(eDisplayEle
■■if( dis_elm )
■■dis_elm.SetLevel(eBadgeLevel.NONE);
——}
|
};
..
// ----- PillsNotfr.c - END ------------------//
// -----
// ----- PilotkaCap.c - START -----
class PilotkaCap extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
```

```
// ----- Pipe.c - START -----
class Pipe extends Inventory_Base
// ----- Pipe.c - END -----
// -----
// ----- PipeWrench.c - START -----
// -----
class PipeWrench extends Inventory_Base
■override void SetActions()
■■super.SetActions();
■■//AddAction(ActionDismantlePart);
■■//AddAction(ActionRepairCarEngine);
■■AddAction(ActionMineRock);
■}
// -----
// ----- PipeWrench.c - END -----
// -----
// -----
// ----- PistolAlt_Base.c - START ------
class PistolAlt_Base extends Pistol_Base
// -----
// ----- PistolAlt_Base.c - END ------
// -----
// ----- PistollightLight.c - START ------
class PistollightLight extends SpotLightBase
■private static float m_DefaultBrightness = 5.25;
■private static float m_DefaultRadius = 18;
■private static float m_DefaultAngle = 100;
```

```
// ----- PistolSuppressor.c - START ------
class PistolSuppressor extends ItemSuppressor
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (parent.FindAttachmentBySlotName("suppressorImpro") == NULL && parent.FindAttachmentBySlotl
■■return true;
==}
■■return false;
// -----
// ----- PistolSuppressor.c - END -----
// -----
// ----- Pistol_Base.c - START ------
// -----
enum PistolAnimState
■DEFAULT ■■■= 0, ■///< default weapon state, closed and discharged
■OPENED_DISCHARGED ■= 1, ■///< opened and discharged
■CLOSED_CHARGED■■= 2,■///< closed and charged
■JAMMED■■■■= 3■■///< jammed weapon
// naming convention of the states respect following order:
// closed/opened | charged/discharged | bullet/nobullet | magazine/nomag
enum PistolStableStateID
■UNKNOWN■■■= 0,
■CLO_DIS_BU0_MA0■■= 1,
■CLO_CHG_BU0_MA0■■= 2,
■CLO_CHG_BU1_MA0■■= 3,
■CLO_JAM_BU1_MA0■■= 4,
■OPE_DIS_BU0_MA0■■= 5,
■CLO_CHG_BU0_MA1■■= 6,
■CLO_DIS_BU0_MA1■■= 7,
■CLO_JAM_BU1_MA1■■= 8,
■CLO_CHG_BU1_MA1■■= 9,
■OPE_DIS_BU0_MA1■■= 10,
class Pistol_CLO_DIS_BU0_MA0 extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpns
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return PistolStableStateID.CLO_DIS_BUO_MA0; }
■override bool HasBullet () { return false; }
■override bool HasMagazine () { return false; }
```

■override hool ls lammed () { refurn false: }

```
// ----- Pitchfork.c - START ------
class Pitchfork extends ItemBase
■void Pitchfork()
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionClapBearTrapWithThisItem);
// -----
// ----- Pitchfork.c - END ------
// -----
// ----- Plant.c - START -----
// -----
typedef WoodBase PlantSuper;
// -----
// ----- Plant.c - END ------
// -----
// ----- PlantBase.c - START ------
class PlantBase extends ItemBase
■// Plant states
■static const int STATE_DRY ■■■■= 0;
■static const int STATE_GROWING ■■■■= 1;
■static const int STATE_MATURE ■■■■= 2;
■static const int STATE_SPOILED ■■■■= 3;
■private float ■m_SprayUsage; // How much spray is needed to stop infestation of plant
■private float ■m_InfestationChance;
■private int ■m_GrowthStagesCount;
■private int ■m_CropsCount;
■private bool ■m_HasCrops;
■private string ■m_CropsType;
■private float ■m_PlantMaterialMultiplier;
■private int ■m_PlantState;
■private int ■m_PlantStateIndex;
```

Inrivate float Im CurrentPlantMaterialQuantity:

```
class PlantMaterialHealth
■string m_InfestedTex;
■string m_InfestedMat;
■string m_HealthyTex;
■string m_HealthyMat;
■void PlantMaterialHealth()
■■m_InfestedTex = "";
■■m_InfestedMat = "";
■■m_HealthyTex = "";
■■m_HealthyMat = "";
■}
// ----- PlantMaterial.c - END ------
// -----
// ----- Plastic_Explosive.c - START ------
class Plastic_Explosive : ExplosivesBase
■protected const string SLOT_TRIGGER ■■■■■= "TriggerRemoteDetonator_Receiver";
■protected const string ANIM_PHASE_TRIGGER_REMOTE ■■= "TriggerRemote";
■protected bool m_UsedAsCharge;
■protected ref RemotelyActivatedItemBehaviour m_RAIB;
■void Plastic_Explosive()
■m_RAIB = new RemotelyActivatedItemBehaviour(this);
■■SetAmmoType("Plastic_Explosive_Ammo");
■■SetParticleExplosion(ParticleList.PLASTIC_EXPLOSION);
■■RegisterNetSyncVariableInt("m_RAIB.m_PairDeviceNetIdLow");
■■RegisterNetSyncVariableInt("m_RAIB.m_PairDeviceNetIdHigh");
■}
■override void EOnInit(IEntity other, int extra)
■■LockTriggerSlots();
■}
■//! special behaviour - do not call super from ExplosivesBase
■override void EEKilled(Object killer)■
■■//analytics (behaviour from EntityAI)
```

■GetGame() GetAnalyticsServer() OnEntityKilled(killer_this):

```
// ----- PlateCarrierHolster.c - START ------
class PlateCarrierHolster extends Clothing {};
// ----- PlateCarrierHolster.c - END ------
// -----
// ----- PlateCarrierVest.c - START -----
// -----
class PlateCarrierVest: Clothing
■override void OnWasAttached( EntityAl parent, int slot_id )
■ super.OnWasAttached( parent, slot_id );
■■if ( GetGame().IsServer() && parent.IsInherited( DayZInfected ) )
■■float coef = Math.RandomFloatInclusive(0.2, 0.4);
■■■SetHealth01( "", "", coef);
|
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■ EntityAl entity;
■■if ( Class.CastTo(entity, this) )
entity.GetInventory().CreateInInventory( "PlateCarrierPouches" );
entity.GetInventory().CreateInInventory( "PlateCarrierHolster" );
——}
■}
};
// ----- PlateCarrierVest.c - END ------
// -----
// ----- PlayerAgentPool.c - START ------
class PlayerAgentPool
■ref map<int,float> m_VirusPool = new map<int,float>;
■ref array<int> m_VirusPoolArray = new array<int>;
■float m_LastTicked = 0;
■float m_TotalAgentCount;
■PlayerBase m_Player;
■int m AgentMask:
```

```
// ----- PlayerBase.c - START -----
class PlayerBase extends ManBase
■const int ■■■■■■SIMPLIFIED_SHOCK_CAP = 63;
■const int ■■■■■■SHAKE_LEVEL_MAX = 7;■■■■
■private int■■■■■m_LifeSpanState;
■private int■■■■■■ LastShavedSeconds:
■private int■■■■■m_BloodType;
■private bool■■■■■m_HasBloodTypeVisible;
■ private bool ■■■■■ LiquidTendencyDrain; //client-side only - Obsolete
■private bool ■■■■■m_FlagRaisingTendency;
■private int■■■■■■m_HasBloodyHandsVisible;
■private int■■■■■m_FaceCoveredForShaveLayers = 0;
■protected bool■■■■■m_HasHeatBuffer;
■protected bool ■■■■■m_PlayerLoaded;
■protected bool ■■■■■m_PlayerDisconnectProcessed;
■protected bool ■■■■■m_ProcessUlWarning;
■ protected int ■■■■■ LocalRefreshAnimStateIdx:
■protected int ■■■■■m_RefreshAnimStateIdx;
■ private int ■■■■■ m_StoreLoadVersion;
■ const int ■■■■■■ACT_STORE_SAVE_VERSION = 4;
■protected int ■■■■■m_LifespanLevelLocal; //control variable for change calls
■protected int ■■■■■m_AnimCommandStarting; //signals the command that is about to start the next fra
■EUndergroundPresence■■■m_UndergroundPresence;
■private PluginPlayerStatus■■m_ModulePlayerStatus;
■PluginConfigEmotesProfile ■■m_ConfigEmotesProfile;
■private PluginLifespan ■■■m_ModuleLifespan;
protected PluginPresenceNotifier m_PresenceNotifier;
■protected ref UndergroundHandlerClient■m_UndergroundHandler;
■ref PlayerStats ■■■m_PlayerStats;
■PluginRecipesManager ■■■m_ModuleRecipesManager;
■ref BleedingSourcesManagerServer ■m_BleedingManagerServer;
■ref BleedingSourcesManagerRemote ■m_BleedingManagerRemote;
■ref ModifiersManager
■■■m_ModifiersManager;
■ref NotifiersManager ■■■m_NotifiersManager;
■ref protected ActionManagerBase m_ActionManager;
■//ref PlayerLightManager ■■■m_PlayerLightManager;
■ref PlayerAgentPool
■■■■m_AgentPool;
■int■■■■■■m_Agents;
■ref Environment
■m_Environment;
■ref EmoteManager ■■■■m_EmoteManager;
//■ref VehicleManager ■■■■m_VehicleManager;
■ref SymptomManager
■SymptomManager;
■ref VirtualHud ■■■■■m_VirtualHud;
■ref StaminaHandler
■ StaminaHandler;
■ref InjuryAnimationHandler■■m_InjuryHandler;
■ref ShockHandler■■■■m_ShockHandler; //New shock handler
■ref SoftSkillsManager
■■■m_SoftSkillsManager;
■ref StanceIndicator
■■■■m_StanceIndicator
;
■ref TransferValues
■■■m_TrasferValues;
■ref DebugMonitorValues
■■■m_DebugMonitorValues;
■const int ■■■■■■OVERLOAD_LIMIT = 30000;
■float ■■■■■■■m_CargoLoad;
■float■■■■■■m_VisibilityCoef;
■float ■■■■■■■m_OriginalSlidePoseAngle;
```

■int■■■■■■■m_SoundEvent;

■int■■■■■■■ SoundEventParam:

```
// ----- PlayerBaseClient.c - START ------
class PlayerBaseClient extends PlayerBase
■static ScriptedLightBase ■m_PersonalLight;
■static bool ■■■■m_PersonalLightEnabledOnCurrentServer = false; // "disablePersonalLight" in server.c
■static bool ■■■■m_PersonalLightDisabledByDebug = false;
■static bool ■■■■m_PersonalLightIsSwitchedOn = true;
■//! Creates PL if it doesn't exist already.
■static void CreatePersonalLight()
■■if (!m_PersonalLight && ( !GetGame().IsServer() || !GetGame().IsMultiplayer() ))
■■■m_PersonalLight = ScriptedLightBase.CreateLight(PersonalLight, "0 0 0");
/*
woverride void OnRPC(PlayerIdentity sender, int rpc_type, ParamsReadContext ctx)
■ super.OnRPC(sender, rpc_type, ctx);
■■switch( rpc_type )
■■{
■■■case ERPCs.RPC_TOGGLE_PERSONAL_LIGHT:
  ■■Param1<bool> is_enabled = new Param1<bool>(false);
■■■if (ctx.Read(is_enabled))
  ■■■m_PersonalLightEnabledOnCurrentServer = is_enabled.param1;
■■■■UpdatePersonalLight();
■■■■break;
■override void OnGameplayDataHandlerSync()
■■super.OnGameplayDataHandlerSync();
■■m_PersonalLightEnabledOnCurrentServer = !CfgGameplayHandler.GetDisablePersonalLight();
■■UpdatePersonalLight();
■■UpdateHitDirectionValues();
•}
■//! Controls the ON/OFF switch of the Personal Light. PL will still shine only if the server allows it.
■static void SwitchPersonalLight(bool state)
■■if (!GetGame().IsServer() || !GetGame().IsMultiplayer() )
■■■m_PersonalLightIsSwitchedOn = state;
■■■UpdatePersonalLight();
--}
```

■//I I Indates state of PI

```
// ----- PlayerConstants.c - START -----
class PlayerConstants
■static const float WEAPON_RAISE_BLEND_DELAY = 0.136;
■static const float MELEE2_MOVEMENT_BLEND_DELAY = 0.35;
■static const float HEAVY_HIT_THRESHOLD = 0.5; //defines what is considered a 'heavy hit' from the inc
■//■■■SHOES DAMAGE/FEET BLEEDING
■static const float BAREFOOT_MOVEMENT_BLEED_MODIFIER = 0.1;
■static const float SHOES_MOVEMENT_DAMAGE_PER_STEP = 0.035;
■static const int CHECK_EVERY_N_STEP = 10;//will process every n-th step(for performance reasons)
■//■■■■STAT LEVELS START
■static const float SL_HEALTH_CRITICAL = 15;
■static const float SL_HEALTH_LOW = 30;
■static const float SL_HEALTH_NORMAL = 50;
■static const float SL_HEALTH_HIGH = 80;■
■static const float SL_TOXICITY_CRITICAL = 20;
■static const float SL_TOXICITY_LOW = 40;
■static const float SL_TOXICITY_NORMAL = 60;
■static const float SL_TOXICITY_HIGH = 80;
■static const float SL_BLOOD_CRITICAL = 3000;
■static const float SL_BLOOD_LOW = 3500;
■static const float SL_BLOOD_NORMAL = 4000;
■static const float SL_BLOOD_HIGH = 4500;
■static const float SL_ENERGY_CRITICAL = 0;
■static const float SL_ENERGY_LOW = 300;
■static const float SL_ENERGY_NORMAL = 800;
■static const float SL_ENERGY_HIGH = 3500;
■static const float SL_ENERGY_MAX = 5000;
■static const float SL_WATER_CRITICAL = 0;
■static const float SL_WATER_LOW = 300;
■static const float SL_WATER_NORMAL = 800;
■static const float SL_WATER_HIGH = 3500;
■static const float SL_WATER_MAX = 5000;
■//■■■■■■STAT LEVELS END
I//-----
■static const float NORMAL_TEMPERATURE_L = 36.0;
■static const float NORMAL_TEMPERATURE_H = 36.5;
■static const float HIGH_TEMPERATURE_L ■= 38.5;
■static const float HIGH_TEMPERATURE_H■= 39.0;
■static const float CONSUMPTION_MULTIPLIER_BASE ■ 1;  //must not be 0 or less
■static const float STOMACH_ENERGY_TRANSFERED_PER_SEC ■■= 3;■//amount of kcal transfered
■static const float STOMACH_WATER_TRANSFERED_PER_SEC ■■= 6; //amount of ml transfered to
■static const float STOMACH_SOLID_EMPTIED_PER_SEC ■■■= 7; ■//amount of g/ml emptied from sto
```

■static const float LOW_WATER_THRESHOLD ■■■■■■= SL_WATER_LOW;■■//threshold from which

```
// ----- PlayerContainer.c - START ------
class PlayerContainer: CollapsibleContainer
■protected ref AttachmentsGroupContainer■■m_PlayerAttachmentsContainer;
■protected ref map<int, Slotslcon>■■■m_InventorySlots;
■protected ref map<EntityAI, ref Container>■m_ShowedItems = new ref map<EntityAI, ref Container>;
■protected ref map<int, ref Container>■■m_ShowedItemsIDs = new ref map<int, ref Container>:
■protected PlayerBase■■■■■m_Player;
■protected const∎int■■■■■■HEADER_INDEX_OFFSET = 2;
■override void UpdateRadialIcon()
■■if ( m_SlotIcon )
----
■■■bool show_radial_icon;
■■show_radial_icon = lsHidden();
■■■Widget rip = m_SlotIcon.GetRadialIconPanel();
■■■rip.Show(!m_Player.GetInventory().IsInventoryLockedForLockType(HIDE_INV_FROM_SCRIPT) &
■■SetOpenForSlotIcon(show_radial_icon);
| | |
|
■bool HasEntityContainerVisible(EntityAl entity)
■■ClosableContainer cont = ClosableContainer.Cast( m_ShowedItems.Get( entity ) );
■■return ( cont && cont.lsOpened() );
■SlotsIcon GetSlotsIcon(int row, int column)
■■return m_PlayerAttachmentsContainer.GetSlotsIcon(row, column);
■void PlayerContainer( LayoutHolder parent, int sort = -1)
m_InventorySlots = new ref map<int, SlotsIcon>;
m_PlayerAttachmentsContainer = new AttachmentsGroupContainer(this);
■■m_PlayerAttachmentsContainer.SetHeader(GetHeader());
■ ■ m_CollapsibleHeader.SetName( "#container_inventory");
■■SetHeader(null);
■■m_Body.Insert( m_PlayerAttachmentsContainer );
■■ MainWidget = m_RootWidget.FindAnyWidget("body");
■■ m_PlayerAttachmentsContainer.GetRootWidget().SetColor(166 << 24 | 80 << 16 | 80 << 8 | 80);
■■ WidgetEventHandler.GetInstance().RegisterOnChildAdd( m_MainWidget, this, "OnChildAdd");
■■WidgetEventHandler.GetInstance().RegisterOnChildRemove( m_MainWidget, this, "OnChildRemove" )
■■//START - InitGhostSlots
■■string config_path_ghosts_slots = "CfgVehicles SurvivorBase InventoryEquipment playerSlots";
■■ref array<string> player_ghosts_slots = new array<string>;
■■GetGame().ConfigGetTextArray( config_path_ghosts_slots, player_ghosts_slots );
\blacksquare for (int i = 0; i < player_ghosts_slots.Count(); i++)
string slot_name = player_ghosts_slots.Get ( i );
string path = "CfgSlots" + " " + slot_name;
```

■■if (GetGame() ConfiglsExisting(nath))

```
----- PlayerLightManager.c - START ------
class ActionTargetLighSource : ActionTarget
■bool ■m_Remove;
//WIP
class PlayerLightManager
■ref ActionTargetLighSource ■■■■m_LightItemTarget;
■ref array<ref ĂctionTarget> ■■■m_ValidLightItems;
■PlayerBase ■■■■■■■■m_Player;
■void PlayerLightManager(PlayerBase player)
■■m_LightItemTarget = null;
■■m_ValidLightItems = new array<ref ActionTarget>;
■■m_Player = player;
■// can be anything, as long as it has appropriate actions for handling lights, see Mich2001Helmet
■void AddLightSource(Object object)
■ Im_LightItemTarget = new ActionTargetLighSource(object, null, -1, vector.Zero, -1);
■■UpdateLightSourceList();
•}
■void RemoveLightSource(Object object)
■■m_LightItemTarget = new ActionTargetLighSource(object, null, -1, vector.Zero, -1);
■■m_LightItemTarget.m_Remove = true;
■■UpdateLightSourceList();
■}
■void UpdateLightSourceList()
■■if ( m_LightItemTarget )
■■■if(!m_LightItemTarget.m_Remove)
■■■■m_ValidLightItems.Insert(m_LightItemTarget);
■■else
■■■■m_ValidLightItems.RemoveItem(m_LightItemTarget);
——}
■ref array<ref ActionTarget> GetLightSourceList()
■■return m_ValidLightItems;
■void SetSelectedLightSourceIdx(int value)
■■m_SelectedLightSource = value;
```

```
// ----- PlayerListEntryScriptedWidget.c - START ------
class PlayerListEntryScriptedWidget extends ScriptedWidgetEventHandler
■protected string
■■■■m_Name;
■protected string■■■■m_UID;
protected bool
■protected bool■■■■■■ GlobalMute:
■protected Widget■■■■m_Root;
■protected TextWidget■■■m_PlayerName;
■protected ImageWidget■■■m_PlayerAvatar;
■protected ImageWidget■■■m_Microphonelcon;
■protected ImageWidget■■■m_MuteIcon;
■protected ButtonWidget■■■m_PlayerButton;
■protected PlayerListScriptedWidget■m_Tab;
■protected bool■■■■■■m_Selected;
■void PlayerListEntryScriptedWidget( Widget parent, string name, string uid, bool show_permissions, Play
■■m_Name■■■■= name;
■■m_UID■■■= uid;
■■m_Tab■■■= tab;
■■m_Root■■■= GetGame().GetWorkspace().CreateWidgets( "gui/layouts/xbox/ingamemenu_xbox/pla
■■m_PlayerName■■= TextWidget.Cast( m_Root.FindAnyWidget( "Name" ) );
■■m_PlayerAvatar■■= ImageWidget.Cast( m_Root.FindAnyWidget( "Avatar"));
■■m_Microphonelcon■= ImageWidget.Cast( m_Root.FindAnyWidget( "Microphone" ) );
■■m_Mutelcon■■■= ImageWidget.Cast( m_Root.FindAnyWidget( "Muted" ) );
■■m_PlayerButton■■= ButtonWidget.Cast( m_Root.FindAnyWidget( "Button" ) );
■■m_Microphonelcon.Show( show_permissions && !IsLocalPlayer() );
■■m_PlayerName.SetText( name );
■■m_Root.SetHandler( this );
■void ~PlayerListEntryScriptedWidget()
■■delete m_Root;
•}
■Widget GetButtonWidget()
■ return m_PlayerButton;
■}
■void LoadPermissions( BiosPrivacyPermissionResultArray results )
■foreach (BiosPrivacyPermissionResult result : results )
■■■if ( result.m_Permission == EBiosPrivacyPermission.COMMUNICATE_VOICE )
■■■m_GlobalMute = !result.m_lsAllowed;
■■■■if(result.m_IsAllowed && !m_Mute)
■■■■■m_MuteIcon.Show( false );
```

■■■else if (Iresult m IsAllowed || m Mute)

```
----- PlayerListScriptedWidget.c - START ------
class PlayerListScriptedWidget extends ScriptedWidgetEventHandler
protected Widget
■protected ScrollWidget■■■■■■■■■■■■■■■■■=ScrollContainer;
■protected ref map<string, ref PlayerListEntryScriptedWidget>■m_Entries;
protected int
■protected PlayerListEntryScriptedWidget■■■■■■■m_SelectedEntry;
■void PlayerListScriptedWidget( Widget parent, string header_text = "" )
■ m_Root ■ = GetGame().GetWorkspace().CreateWidgets( "gui/layouts/xbox/ingamemenu_xbox/pla
■■m_ScrollContainer■= ScrollWidget.Cast( m_Root.FindAnyWidget( "ScrollFrame" ) );
■■m_Content■■= m_Root.FindAnyWidget( "Content" );
■■m_Entries■■■= new map<string, ref PlayerListEntryScriptedWidget>;
■■m_ScrollContainer.VScrollToPos01(0);
■void ~PlayerListScriptedWidget()
■■delete m_Root;
■}
■void FocusFirst()
■■if ( m_Content && m_Content.GetChildren() )
SetFocus( m_Content.GetChildren().FindAnyWidget( "Button" ) );
■■m_ScrollContainer.VScrollToPos01(0);
■void Reload(SyncPlayerList player_list)
■■if ( player_list && player_list.m_PlayerList && m_Entries )
■■■foreach ( string UID, PlayerListEntryScriptedWidget widget : m_Entries )
 I■■■SyncPlayer player_found;
■■■foreach ( SyncPlayer player : player_list.m_PlayerList )
■■■■if(player && player.m_UID == UID)
■■■■■player_found = player;
■■■■■break:
■■■if ( !player_found )
■■■■RemovePlayer( UID );
I■■for ( int i = 0; i < player_list.m_PlayerList.Count(); i++ )
```

SyncPlayer player2 = player_list.m_PlayerList.Get(i);

■■■PlayerListEntryScriptedWidget player_widget:

```
// ----- PlayerPreview.c - START ------
class PlayerPreview: LayoutHolder
■protected ref PlayerPreviewWidget m_CharacterPanelWidget;
■protected int m_CharacterRotationX;
■protected int m_CharacterRotationY;
■protected int m_CharacterScaleDelta;
■protected vector m_CharacterOrientation;
■protected bool m_lsHolding;
■void PlayerPreview( LayoutHolder parent )
■■WidgetEventHandler.GetInstance().RegisterOnMouseButtonDown( m_Parent.GetMainWidget().FindAr
■■WidgetEventHandler.GetInstance().RegisterOnMouseWheel( m_Parent.GetMainWidget().FindAnyWidget
■■m_CharacterScaleDelta = 1;
■■m_CharacterPanelWidget.SetPlayer( GetGame().GetPlayer() );
■■m_CharacterPanelWidget.SetModelPosition("0 0 0.605");
■■m_CharacterPanelWidget.SetSize( 1.34, 1.34 ); // default scale
■■UpdateScale();
■void RefreshPlayerPreview()
■m_CharacterPanelWidget.Refresh();
■void UpdateRotation( int mouse_x, int mouse_y, bool is_dragging )
■■if ( m_CharacterPanelWidget )
■■■vector orientation = m_CharacterOrientation;
■■■orientation[1] = orientation[1] - ( m_CharacterRotationX - mouse_x );
■■■m_CharacterPanelWidget.SetModelOrientation( orientation );
■■■if (!is_dragging)
■■■■m_CharacterOrientation = orientation;
| ||
■void UpdateScale()
■■if ( m_CharacterPanelWidget )
■■■float w, h;
■■m_CharacterPanelWidget.GetSize( w, h );
■■■w = w + ( m_Character Scale Delta / 25 );
\blacksquare \blacksquare h = h + (m_{CharacterScaleDelta / 25);
■■■if ( w > 0.62 && w < 3 )
■■■■m_CharacterPanelWidget.SetSize( w, h );
```

 \blacksquare else if (w < 0.62)

```
----- PlayerSoundEventBase.c - START ------
enum EPlayerSoundEventType
\blacksquareGENERAL \blacksquare= 0x00000001,
■MELEE ■■= 0x00000002.
■STAMINA ■= 0x00000004,
■DAMAGE ■■= 0x00000008,
\blacksquareDUMMY \blacksquare= 0x00000010,
■INJURY ■■= 0x00000020,
\blacksquareDROWNING \blacksquare= 0x00000040,
\blacksquare//HEAT_COMFORT\blacksquare= 0x00000080,
enum EPlayerSoundEventParam
■SKIP_CONTROLLED_PLAYER ■= 0x00000001,
\blacksquareHIGHEST_PRIORITY\blacksquare= 0x00000002,
\blacksquareSTAMINA \blacksquare= 0x00000004,
■DAMAGE ■■= 0x00000008,
\blacksquareDUMMY \blacksquare= 0x00000010,
■INJURY ■■= 0x00000020,
\blacksquareHEAT_COMFORT\blacksquare= 0x00000040,
*/
■// ONLY COUNT BELLOW
■ENUM_COUNT,
}
class PlayerSoundEventBase extends SoundEventBase
■PlayerBase ■m_Player;
■float■m_DummySoundLength;
■float ■■m_DummyStartTime;
■bool■■m_lsDummyType;
■bool■■m_ProcessPlaybackEvent;
■float ■■m_PlayTime;
■ref HumanMovementState m Hms = new HumanMovementState();
■EPlayerSoundEventType m_HasPriorityOverTypes;
■bool IsDummy()
■■return m_IsDummyType;
■}
■EPlayerSoundEventType GetPriorityOverTypes()
■■return m_HasPriorityOverTypes;
■}
■// !can this event play during hold breath
■bool HasHoldBreathException()
■■return false;
```

■void PlaverSoundEventRase()

```
// ----- PlayerSoundEventHandler.c - START ------
enum EPlayerSoundEventID
\blacksquareHOLD_BREATH = 1,
■EXHAUSTED_BREATH,
■RELEASE_BREATH,
■STAMINA DOWN LIGHT,
■STAMINA_DOWN_HEAVY,
■STAMINA_UP_LIGHT,
■STAMINA_UP_HEAVY,
■STAMINA_UP_END,
■STAMINA_NORMAL_DUMMY,
■TAKING_DMG_LIGHT,
■TAKING_DMG_HEAVY,
■SYMPTOM_COUGH,
■SYMPTOM_LAUGHTER,
■SYMPTOM_SNEEZE,
■JUMP
■MELEE_ATTACK_LIGHT,
■MELEE_ATTACK_HEAVY
■INJURED_LIGHT.
■INJURED_MEDIUM,
■INJURED_HIGH,
■FREEZING,
■HOT.
■SYMPTOM_FATIGUE,
■STAMINA_LOW_FILTER_UPPER,
■STAMINA_LOW_FILTER_MID
■STAMINA_LOW_FILTER_LOWER,
■DROWNING_BREATH,
■DROWNING_PAIN,
■PICKUP_HEAVY,
■// Count bellow, put enums above
■ENUM_COUNT,
class PlayerSoundEventHandler extends SoundEventHandler
■PlayerBase m_Player;
■const int SOUND_EVENTS_MAX = EPlayerSoundEventID.ENUM_COUNT;
static ref PlayerSoundEventBase m_AvailableStates[SOUND_EVENTS_MAX];
■static ref map<int,int> m_ConfigIDToScriptIDmapping = new ref map<int,int> ;
■ref PlayerSoundEventBase m_CurrentState;
■ref Timer m_UpdateTimer;
■void PlayerSoundEventHandler(PlayerBase player)
■■m_Player = player;
■■if(!m_UpdateTimer && !m_Player.lsControlledPlayer())
■■■m_UpdateTimer = new Timer();
■■■m_UpdateTimer.Run(1, this, "OnTick", null, true);//ticking for remotes, the controlled player is ticking of
■■}
```

RegisterState(new HoldBreathSoundEvent()).

```
----- PlayerSoundManager.c - START ------
const float SOUNDS_HEARING_DISTANCE = 50;
enum eSoundHandlers
■STAMINA,
■HUNGER,
■INJURY,
■//FREEZING,
I//----
■// add stuff above !
I//----
■COUNT
class PlayerSoundManagerBase
■PlayerBase m_Player;
■const int MAX_HANDLERS_COUNT = eSoundHandlers.COUNT;
■ref SoundHandlerBase m_Handlers[MAX_HANDLERS_COUNT];
■void PlayerSoundManagerBase(PlayerBase player)
■■m_Player = player;
■■Init();
■void RegisterHandler(SoundHandlerBase handler)
■■int index = handler.GetID();
■■m_Handlers[index] = handler;
■}
■SoundHandlerBase GetHandler(eSoundHandlers id)
■ return m_Handlers[id];
■void Init()
■void Update()
class PlayerSoundManagerServer extends PlayerSoundManagerBase
```

```
// ----- PlayerStatBase.c - START ------
class PlayerStatBase
■int■m_Type;
■void ■OnStoreSave( ParamsWriteContext ctx );
■bool ■OnStoreLoad( ParamsReadContext ctx);
■void ■OnRPC(ParamsReadContext ctx);
■float ■Get();
■string ■GetLabel();
■void ■SetByFloat(float value);
■void ■SetByFloatEx(float value, string system = "");
■bool■IsSynced();
■array<PlayerStatRecord> GetRecords();
■void ■Init(int id/*, PlayerStats manager*/);
■void ■SerializeValue(array<ref StatDebugObject> objects, int flags);
■float ■GetNormalized();
■float ■GetMax();
■float ■GetMin();
■int■■GetType()
■{
■ return m_Type;
class PlayerStat<Class T> extends PlayerStatBase
■protected T ■■m_MinValue;
■protected T ■■m_MaxValue;
■protected T ■■m_Value;
■protected string ■m_ValueLabel;
■protected int■m_Flags;
■ref array<PlayerStatRecord> m_Records;
■PlayerStats ■m_Manager;
■void PlayerStat(T min, T max,T init, string label, int flags)
■■m_MinValue ■■= min;
■■m MaxValue ■■= max;
■■m_Value■■= init;
■■m_ValueLabel ■= label;
■■m_Flags■■= flags;
m_Records = new array<PlayerStatRecord>;
■}
■override void Init(int id/*, PlayerStats manager*/)
\blacksquare \blacksquare m_Type = id;
■■//m_Manager = manager;■
override void SerializeValue(array<ref StatDebugObject> objects, int flags)
• objects.Insert( new StatDebugObject(GetLabel(), Get(), eRemoteStatType.PLAYER_STATS) );
```

■PlayerState GetManager()

```
// ----- PlayerStatRecord.c - START ------
class PlayerStatRecord
■float ■■m_Value;
■float ■■m_Time;
■string■■m_System;
■void PlayerStatRecord(float value, float time, string system)
■■m_Value = value;
\blacksquare \blacksquare m_Time = time;
■m_System = system;
■string GetStringOutput()
■ return m_Time.ToString()+", " +m_Value.ToString() + ", " +m_System;
■}
};
// ----- PlayerStatRecord.c - END -----
// ----- PlayerStats.c - START ------//
enum EPSstatsFlags
■EMPTY,
class PlayerStats
imref array<ref PlayerStatBase> m_PlayerStats;
■ref array<ref StatDebugObject> m_PlayerStatsDebug;
■//ref PlayerStatsPCO_current m_PCO = new PlayerStatsPCO_current();
■ref PCOHandlerStats m_PCOhandler = new PCOHandlerStats();
■ref Timer m_SyncTimer;
■Man m_Player;
■bool m_AllowLogs;
■string m_System = "Stats"; //debuging tag
■//int m_SystemVersion = 101;
■void PlayerStats(Man player)
■ Init(player);
```

```
----- PlayerStatsPCO.c - START ------
class PCOHandlerStats
ref map<int, ref PlayerStatsPCO_Base> m_PCOs = new map<int, ref PlayerStatsPCO_Base>;
■int m_HighestVersion;
■void PCOHandlerStats()
■■RegisterPCO(new PlayerStatsPCO_v100);
■■RegisterPCO(new PlayerStatsPCO_v101);
■■RegisterPCO(new PlayerStatsPCO_current);
■void RegisterPCO(PlayerStatsPCO_Base pco)
■■int version = pco.GetVersion();
■■if( version > m_HighestVersion )
■■■m_HighestVersion = version;
■■m_PCOs.Insert(version, pco);
■PlayerStatsPCO_Base GetPCO(int version = -1)
■ Image: PlayerStatsPCO_Base pco;
■■if(version == -1)//no version set - fetch the highest version
■■■return m_PCOs.Get(m_HighestVersion);
■■else if(!m_PCOs.Contains(version))//version set - version not present, fetch the closest lower version
■■■for(int i = version; i > 100; i--)
  ■■■if(m_PCOs.Contains(i))
■■■■ //Print("fetching PCO version:"+ i);
■■■■return m_PCOs.Get(i);■
■■■return null;
■■else//version set - version present, fetch it
■■■//Print("fetching PCO version:"+ version);
■■return m_PCOs.Get(version);
class PlayerStatsPCO_Base
```

Ivoid PlayerStatsPCO_Rase()

```
....// ------ PlayerStomach.c - START ------
class StomachItem
■ref NutritionalProfile m_Profile;
■float m_Amount;
■int m_FoodStage;
■//bool m_lsLiquid;
■string m_ClassName;
■int m_Agents;
■void StomachItem(string class_name, float amount, NutritionalProfile profile,int foodstage, int agents)
\blacksquare \blacksquare m\_Amount = amount;
■■m_Profile = profile;
■■//m_IsLiquid = is_liquid;
■■m_FoodStage = foodstage;
■■m_ClassName = class_name;
■■m_Agents = agents;
■}
■string GetClassName()
■ return m_ClassName;
■void SetLiquid(bool is_liquid)
■■m_IsLiquid = is_liquid;
■}
■bool IsLiquid()
■ return m_IsLiquid;
■int GetFoodStage()
■ return m_FoodStage;
■void SetFoodStage(int food_stage)
■■m_FoodStage = food_stage;
■// returns grams or ml's of this item/liquid
■float GetAmount()
■ return m_Amount;
■// adds grams or ml's of this item/liquid
■void AddAmount(float amount)
```

■ m_Amount += amount;

```
// ----- PleurotusMushroom.c - START ------//
class PleurotusMushroom: MushroomBase
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
// ----- PleurotusMushroom.c - END ------//
// -----
// ----- Pliers.c - START -----
class Pliers extends ToolBase
■void Pliers()
■■m_MineDisarmRate = 100;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionDismantlePart);
■■AddAction(ActionBuildPart);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionMountBarbedWire);
■■AddAction(ActionUnmountBarbedWire);
■■AddAction(ActionLockAttachment);
■■AddAction(ActionDisarmExplosive);
// -----
// ----- Pliers.c - END -----
// -----
// ----- PluginAdditionalInfo.c - START ------
// -----
class PluginAdditionalInfo extends PluginLocalProfile
```

override string GetFileName()

```
// ----- PluginAdminLog.c - START ------
class PluginAdminLog extends PluginBase
■string ■■■■■■■■m_PlayerName;
■string■■■■■■■ Pid;
■vector ■■■■■■■m_Position;
■string■■■■■■■ PlayerPrefix;
■string ■■■■■■■■■m_PlayerPrefix2;
■string■■■■■■■m_Message;
■string■■■■■■■m_DisplayName;
■string ■■■■■■■m_HitMessage;
■float ■■■■■■■ Distance;
■PlayerBase■■■■■m_Player;
■PlayerBase■■■■■■ Source:
■string■■■■■■m_ItemInHands;
■string ■■■■■■■m_PosArray[3];
■int ■■■■■■■m_DotIndex;
■PlayerStat<float>■■■■ StatWater;
■PlayerStat<float>■■■m_StatEnergy;
■BleedingSourcesManagerServer■m_BleedMgr;
■// filters
■protected int ■■■■■m_HitFilter;
■protected int ■■■■■m_PlacementFilter;
■protected int ■■■■■m_ActionsFilter;
■protected int ■■■■■m_PlayerListFilter;
■ref Timer
■■■■■■m_Timer;
■autoptr array<Man>■■■m_PlayerArray; ■
■const int ■■■■■■TIMER PLAYERLIST = GetPlayerListTimer();
■static int GetPlayerListTimer()
■■return 300; // seconds
■}
/*
EXE side ADM log messages (not removable):
■■Connect / Disconnect
■■Chat
■■Player->Admin report (ingame chat: #toadmin <text>)■
*/
■void PluginAdminLog()
■ m_HitFilter = GetGame().ServerConfigGetInt("adminLogPlayerHitsOnly"); // 1 - log player hits only / 0
■■m_PlacementFilter = GetGame().ServerConfigGetInt("adminLogPlacement"); // 1 - log placement (tra
■■m_ActionsFilter = GetGame().ServerConfigGetInt("adminLogBuildActions"); // 1 - log basebuilding acti
■■m_PlayerListFilter = GetGame().ServerConfigGetInt("adminLogPlayerList"); // 1 - log periodic player lis
■■m_PlayerArray = new array<Man>;
■■if ( m_PlayerListFilter == 1 )
\blacksquare \blacksquare \blacksquare m_Timer = new Timer();
■■■m_Timer.Run( TIMER_PLAYERLIST, this, "PlayerList", NULL, true );
| | |
```

■void ~PluginAdminLog()

```
// ----- PluginCharPlacement.c - START ------
class PluginCharPlacement extends PluginBase
■PluginDeveloper ■m_ModuleDeveloper;
■PlayerBase■■ ■m_Character;
■ref ■■■■Timer m_Timer;
■bool ■■■■m_Initialized;
■vector ■■■■m_cam_pos;
■vector ■■■■m_character_pos;
■vector ■■■■m_camera_dir;
■vector ■■■■m_cameraTrans[4];
■vector ■■■■m_demoPos;
■vector ■■■■m_demoRot;
■vector ■■■■m_camera_orientation;
\blacksquareconst float \blacksquareFOV = 0.5236;
■void CheckInit()
■{
■■if ( m_Initialized )
■■■Print("logging...");
■■Log(FOV.ToString(),"FOV");
■■■Log(m_camera_dir.ToString(),"camera dir");
■■■Log(m_cam_pos.ToString(),"camera pos");
■■■Log(m_demoPos.ToString(),"character pos");
■■return;
| | |
■■if( FreeDebugCamera.GetInstance().IsActive() )
■■■Init();
|
■void Init()
■■if(m_Character)
■■■m_Character.Delete();
■■m_Initialized = true;
■■m_Character = PlayerBase.Cast( GetGame().CreateObject("SurvivorF_Judy", FreeDebugCamera.Get
■■FreeDebugCamera.GetInstance().SetFOV(FOV); //default scene FOV
\blacksquare m_{demoRot} = "0 0 0";
■override void OnUpdate(float delta_time)
•{
■■if(!m_Initialized) return;
■■if(!FreeDebugCamera.GetInstance().IsActive()) return;
■if(!m_Character) return;
■■m_camera_orientation = FreeDebugCamera.GetInstance().GetOrientation();
■■m_camera_orientation[1] = 1;
■■FreeDebugCamera.GetInstance().SetOrientation(m_camera_orientation); //remove to unlock vertical a:
■■m_cam_pos = FreeDebugCamera.GetInstance().GetPosition();
m_character_pos = m_Character.GetPosition();
■■m_camera_dir = FreeDebugCamera.GetInstance().GetDirection();
```

■■m. camera dir Normalize()·

```
// ----- PluginConfigDebugProfile.c - START ------
typedef Param3<string, bool, vector> LocationParams;// param1 - name, param2 - isCustom?, param3 - par
class PluginConfigDebugProfile extends PluginConfigHandler
■protected const string SCENE_DRAW_SELECTION■■■= "scene_editor_draw_selection";
■protected const string SCENE_LOAD_PLAYER_POS■■= "scene_editor_load_player_pos";
■protected const string SCENE_ROTATION_ANGLE■■■= "scene_editor_rotation_angle";
■ protected const string ITEM_TAB_SELECTED■■■ = "console_TabSelected";
■ protected const string PRESET_LIST■■■■ = "console_presets";
■ protected const string PRESET_DEFAULT■■■■ = "console_preset_default";
■protected const string ITEM_SEARCH■■■■■= "console_ItemSearch";
■protected const string SPAWN_DISTANCE■■■■= "console_SpawnDistance";
■ protected const string CHAR_STATS_VIS■■■■ "console_character_stats_visible";
■ protected const string CHAR_LEVELS_VIS■■■■ = "console_character_levels_visible";
■protected const string CHAR_MODIFIERS_VIS■■■= "console_character_modifiers_visible";
■protected const string CHAR_AGENTS_VIS■■■■= "console_character_agents_visible";
■protected const string CHAR_DEBUG_VIS■■■■= "console_character_debug_visible";
■protected const string CHAR_STOMACH_VIS■■■■= "console_character_stomach_visible";
■ protected const string FREE_CAMERA_CROSSHAIR■■ = "console_free_camera_crosshair_visible"; ■ protected const string VERSION_VIS■■■■■ = "console_version_visible";
■protected const string MERGE_TYPE■■■■■= "category_merge_type";
■protected const string TEMP_VIS■■■■■■= "console_temperature_visible";
■ protected const string SUB_PARAM_ITEM■■■■ = "item";  
■ protected const string SUB_PARAM_ITEM_NAME■■■ = "name";
■protected const string SUB_PARAM_ITEM_HEALTH■■■= "health";
■protected const string SUB_PARAM_ITEM_QUANTITY
■ "quantity";
■protected const string LOGS_ENABLED■■■■■= "logs_enabled";
■protected const string CONFIG_CLASSES_FLAG■■■= "toggled_config_classes_flag";
■protected const string ITEM_CATEGORY_FLAG■■■= "toggled_item_categories_flag";
■protected const string ITEM_PREVIEW■■■■■= "show_item_preview";
■protected const string BATCH_RECT■■■■■= "batch_spawn_rect";
■protected const string BATCH_QUANT■■■■■= "batch_spawn_quantity";
■protected const string SOUNDFILTER■■■■■= "soundset_editbox";
■protected const string ITEMDEBUG■■■■■= "item_debug":
■protected const string SPAWN_LOC_INDEX■■■■= "spawn_loc_index";
■protected const string FILTER_REVERSED■■■■= "filter_order_reversed";
■protected ref map<string, ref CfgParam>■■■■m_DefaultValues;
■protected ref TStringArray ■■■■■■■■■■■■■PresetList;■
■protected const string POSITION NAME ROOT■■■= "console positions":
■// GetInstance
■static PluginConfigDebugProfile GetInstance()
■■return PluginConfigDebugProfile.Cast( GetPlugin(PluginConfigDebugProfile) );
}
■// GetCfgParamArray
I//----
■protected CfgParamArray GetNewCfgParamArray( array<ref CfgParam> params )
■CfgParamArray param = new CfgParamArray( "" );
■■param.SetParams( params );
■ return param;
```

•}

```
// ----- PluginConfigDebugProfileFixed.c - START ------
class PluginConfigDebugProfileFixed extends PluginConfigDebugProfile
■const string POSITIONS_LIST■■= "console_positions";
■ const string POSITIONS_LIST_ENOCH = "console_positions_enoch";  
■ const string SUB_PARAM_POS_NAME = "name";
■const string SUB PARAM POS VEC■■= "pos";
■// ModuleLocalProfileUIFixed
■void ModuleLocalProfileUlFixed()
■ ReadOnly = true;
■}
I//-----
■// GetFileName
■override string GetFileName()
■ return CFG_FILE_FIXED_PROFILE;
// ----- PluginConfigDebugProfileFixed.c - END ------
// -----
// ----- PluginConfigEmotesProfile.c - START ------
class PluginConfigEmotesProfile extends PluginConfigHandler

■/*protected const string EMOTE_1■■■= "emote_slot_1";

■protected const string EMOTE 2■■■= "emote slot 2";
■ protected const string EMOTE_3■■■= "emote_slot_3";
■ protected const string EMOTE_4■■■= "emote_slot_4";
■protected const string EMOTE_5■■■= "emote_slot_5"
■protected const string EMOTE_6■■■= "emote_slot_6";
■ protected const string EMOTE_7■■■= "emote_slot_7";
■ protected const string EMOTE_8■■■= "emote_slot_8";
■protected const string EMOTE_9■■■= "emote_slot 9"
■protected const string EMOTE_10■■■= "emote_slot_10";
■protected const string EMOTE_11■■■= "emote_slot_11";
■protected const string EMOTE_12■■■= "emote_slot_12";*/
■protected ref map<string, ref CfgParam>■■m_DefaultValues;
■protected ref TStringArray ■■■■■ PresetList;■
■// GetInstance
I//----
■static PluginConfigEmotesProfile GetInstance()
```

```
----- PluginConfigHandler.c - START ------
class PluginConfigHandler extends PluginFileHandler
■ref array<ref CfgParam> m_CfgParams;
■void PluginConfigHandler()
m_CfgParams = new array<ref CfgParam>;
■■LoadConfigFile();
■override void OnInit()
■ super.OnInit();
■override string GetFileName()
■ return CFG_FILE_USER_PROFILE;
■void LoadConfigFile()
■LoadFile();
■■m_CfgParams.Clear();
Teleston for ( int j = 0; j < m_FileContent.Count(); j++ )
 ■■m_CfgParams.Insert( ParseText(m_FileContent.Get(j)) );
■void SaveConfigToFile()
■ ClearFileNoSave();
\blacksquarefor (int i = 0; i < m_CfgParams.Count(); ++i)
■■string s = ParseParam(m_CfgParams.Get(i));
■■m_FileContent.Insert(s);
■■}
■■SaveFile();
■CfgParam GetParamByName(string name, int cfg_type)
■■CfgParam param;
\blacksquarefor (int i = 0; i < m_CfgParams.Count(); ++i)
■■■param = m_CfgParams.Get(i);
 I■■if ( param.GetName() == name )
```

■■■return naram·

```
// ----- PluginConfigScene.c - START ------
class PluginConfigScene extends PluginConfigHandler
■protected string FILE_ROOT■■■■= "$saves:";
■protected const string FILE_ROOT_SCENES■■= "scenes";
■protected const string PARAM MISSION■■= "Mission";
■protected const string PARAM_TIME
■= "InitTime":
■protected const string PARAM_YEAR■■= "InitYear";
■protected const string PARAM_MONTH■■= "InitMonth";
■protected const string PARAM_DAY
■■= "InitDay";
■protected const string PARAM HOUR■■= "InitHour";
■protected const string PARAM_MINUTE■■■= "InitMinute";
■protected const string PARAM_OVERCAST■■= "WeatherInitOvercast";
■protected const string PARAM_RAIN■■= "WeatherInitRain";
■protected const string PARAM_FOG■■■= "WeatherInitFog";
■protected const string PARAM_WIND_F■■= "WeatherInitWindForce";
■protected const string PARAM PLAYER■■= "Player";
■protected const string PARAM_OBJ_COUNT■■= "SceneObjectsCount";
■protected const string PARAM_OBJ_NAME■■= "SceneObject";
■protected const string PARAM_OBJ_ATT■= "Att";
■protected const string PARAM_OBJ_LNK■■= "Lnk";
■protected const string PARAM_OBJ_TYPE■■= "type";
■protected const string PARAM_OBJ_POS■■= "position'
■protected const string PARAM_OBJ_ROT■= "rotation";
■protected const string PARAM_OBJ_DMG■■= "damage";
■protected const string PARAM_OBJ_HLT■■= "health";
■protected const string PARAM_OBJ_ISCR■= "init_script";
■TStringArray m_CfgTemplate;
■protected string m_FileSceneName;
■// OnInit
■override void OnInit()
■■//super.OnInit();
■■FILE_ROOT = g_Game.GetMissionFolderPath();
I//----
■// GetPathScenes
■string GetPathScenes()
\
■ return FILE_ROOT+"\\"+FILE_ROOT_SCENES;
■// GetFileName
■override string GetFileName()
■ireturn GetPathScenes()+"\\"+m_FileSceneName;
•}
```

```
// ----- PluginConfigViewer.c - START ------
class PluginConfigViewer extends PluginBase
■void PluginConfigViewer()
|
■string MakeTabs(int count, bool inheritance = false)
\blacksquare if (count == 0)
■■ return "";
|
\blacksquarestring tabs = "|--";
■■if (inheritance)
----
■■■tabs = "|<<";
——}
\blacksquare for (int i = 0; i < count - 1; i++)
■■ tabs = "| " + tabs;
■■}
■■return tabs;
|
string GetOnlyChildPath( string config_class_path, string class_path)
■■int config_class_path_len = config_class_path.Length();
■■int class_path_len = class_path.Length();
■■if ( class_path_len > config_class_path_len )
■■■int start = config_class_path_len;
■■■int count = class_path_len - start;
■■return class_path.Substring(start, count).Trim();
==}
■■else
■■ return "";
——}
■}
■string GetBaseClassPath( string config_class_path, string class_path, string config_class )
■{
■if (class_path == "")
----
■■■return "";
--}
■■int start = config_class_path.Length();
■■int count = class_path.Length() - start;
■■string class_path_without_config_class = GetOnlyChildPath( config_class_path, class_path );
■■ref TStringArray full_path = new TStringArray;
```

■■GetGame() ConfigGetFullPath(config class nath full nath):

```
// ----- PluginDayZCreatureAlDebug.c - START ------
typedef Param4<float, string, int, string> ■DayZCreatureAnimScriptDebugAnimEventData;
typedef Param1<string> INTERPORT DESCRIPTION typedef Param1<string> INTERPORT DESCRIPTION typedef Param1<string> INTERPORT DESCRIPTION TO THE TOTAL TYPED TO THE TYPED THE TYPED THE TYPED T
class DayZCreatureAnimScriptDebug
■proto native void ■SetCreature(DayZCreature creature);
■proto native int ■GetVariableCount();
■proto native owned string GetVariableName(int index);
■proto native int ■GetVariableType(int index);
■proto native int ■GetVariableInt(int index);
■proto native float ■GetVariableFloat(int index);
■proto native bool ■GetVariableBool(int index);
■proto native int ■SetVariableInt(int index, int value);
■proto native float ■SetVariableFloat(int index, float value);
■ proto native bool ■ Set Variable Bool (int index, bool value);
■proto native int ■GetCommandCount();
■proto native owned string GetCommandName(int index);
■proto native int ■GetCommandID(int index);
■proto native void ■ActivateCommand(int index, int userInt, float userFloat);
■const int ■■■■■■■■■■■■■■■m_iMaxAnimEventsCount = 50;
■ref array<ref DayZCreatureAnimScriptDebugAnimEventData>■■■m_AnimEvents = new array<ref DayZ</p>
■ref array<ref DayZCreatureAnimScriptDebugAnimPredictionData>■m_AnimPredictions = new array<ref
■ref array<ref DayZCreatureAnimScriptDebugAnimTagData>■■■m_AnimTags = new array<ref DayZCreatureAnimScriptDebugAnimTagData>■■■m_AnimTags = new array<ref DayZCreatureAnimScriptDebugAnimTagData>■■■m_AnimTags = new array<ref DayZCreatureAnimScriptDebugAnimTagData>■■■m_AnimTags = new array
■void OnAnimationEventsStart()
■■m_AnimPredictions.Clear();
■■m_AnimTags.Clear();
■void OnAnimationEvent(string evType, int userInt, string userString)
•{
■■if (m_EventsFilter.Find(evType) != -1)
----
■■return;
■■m_AnimEvents.InsertAt(new DayZCreatureAnimScriptDebugAnimEventData(GetWorldTime(), evType
■■if (m_AnimEvents.Count() > m_iMaxAnimEventsCount)
■■■m_AnimEvents.Remove(m_AnimEvents.Count() - 1);
==}
■}
■void OnAnimationPrediction(string predName)
■■m_AnimPredictions.Insert(new DayZCreatureAnimScriptDebugAnimPredictionData(predName));
```

```
----- PluginDayZInfectedDebug.c - START ------
//! PluginDayZInfectedDebugUIHandler
class PluginDayZInfectedDebugUIHandler extends ScriptedWidgetEventHandler
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
■■return m_pPluginInfectedDebug.OnClick(w, x, y, button);
■}
■override bool OnChange(Widget w, int x, int y, bool finished)
■■super.OnChange(w, x, y, finished);
■■return m_pPluginInfectedDebug.OnChange(w, x, y, finished);
■PluginDayZInfectedDebug■■m_pPluginInfectedDebug;
//! PluginDayZInfectedDebugAttackDesc
class PluginDayZInfectedDebugAttackDesc
■void PluginDayZInfectedDebugAttackDesc(string pName, int pValue)
■■name = pName:
■■animValue = pValue;
■string name;
■int animValue;
//! PluginDayZInfectedDebug
class PluginDayZInfectedDebug extends PluginBase
■int m CurrentMode = 0;
■bool m_HasFocus = false;
■bool m_lsActive = false;
■//! main controls
■Widget ■■■■■■■■m_MainWnd;
■ButtonWidget■■■■■■■■SpawnEntityButton;
■ButtonWidget■■■■■■ CardMovementButton;
■ButtonWidget■■■■■■m_CardFightButton;
■Widget■■■■■■■m_CardMovementFrame;
■Widget■■■■■■■m_CardFightFrame;
■TextWidget■■■■■■■■■■■StatusText;
■//! movement card
■XComboBoxWidget ■■■■■m_StanceCB;
■XComboBoxWidget ■■■■■m_MindStateCB;
■EditBoxWidget■■■■■■■MovementSpeedEB;
```

```
---- PluginDayzPlayerDebug.c - START ------
//!PluginDayzPlayerDebugUserData
class PluginDayzPlayerDebugUserData
■void PluginDayzPlayerDebugUserData(int pUserData, bool pFullBody, int pStanceMask = -1)
■■m_iUserData ■= pUserData;
■■m_blsFullBody■= pFullBody;
■■m_iStanceMask■= pStanceMask;
■int■■GetInt()
■■return m_iUserData;
■bool■IsFullBody()
■■ return m_blsFullBody;
■int ■GetStanceMask()
■■■return m_iStanceMask;
■protected int ■m_iUserData;
■protected bool■m_blsFullBody;
■protected int ■m_iStanceMask;
//! PluginDayzPlayerDebugUI
class PluginDayzPlayerDebugUIHandler extends ScriptedWidgetEventHandler
■override bool OnClick(Widget w, int x, int y, int button)
■{
■■super.OnClick(w, x, y, button);
■■return m_pPluginPlayerDebug.OnClick(w, x, y, button);
■}
■override bool OnChange(Widget w, int x, int y, bool finished)
■■super.OnChange(w, x, y, finished);
■■return m_pPluginPlayerDebug.OnChange(w, x, y, finished);
■PluginDayzPlayerDebug
■m_pPluginPlayerDebug;
```

//! PluginDayzPlayerDebugUI

```
// ----- PluginDayzPlayerDebug_Ctrl.c - START ------
//! PluginDayzPlayerDebug_Ctrl
class PluginDayzPlayerDebug_Ctrl
■Widget ■■■■■■■■■m_MainWnd;
■XComboBoxWidget ■■■■■■m_ForceStance;
■EditBoxWidget■■■■■m_MovSpeedEB;
■EditBoxWidget■■■■■■m_MovDirEB;
■CheckBoxWidget■■■■■■■m_MovOverrideCheckbox;
■int ■■■■■■■■■■m_ApplyStanceChange;
■bool■■■■■■■■■ OverrideMovementChange = false;
I//-----
 // gui stuff
■void PluginDayzPlayerDebug_Ctrl(Widget pMainWnd)
■■m_MainWnd ■■■= pMainWnd;
■■m_ApplyStanceChange = -2;
■■CreateModuleWidgets();
 }
■void ~PluginDayzPlayerDebug_Ctrl()
■■DestroyModuleWidgets();
■void CreateModuleWidgets()
■■m_ForceStance = XComboBoxWidget.Cast( m_MainWnd.FindAnyWidget("StanceV") );
■■m_MovSpeedEB = EditBoxWidget.Cast( m_MainWnd.FindAnyWidget("MovSpeedEB") );
■■m_MovDirEB = EditBoxWidget.Cast( m_MainWnd.FindAnyWidget("MovDirEB") );
■■m_MovOverrideCheckbox = CheckBoxWidget.Cast( m_MainWnd.FindAnyWidget("OverrideMovCheck
■void DestroyModuleWidgets()
  // main update
■/* void Tick()
```

■■Day7Player player – Day7Player Cast(GetGame() GetPlayer()):

```
// ----- PluginDayzPlayerDebug_OtherCmds.c - START ------
// ***^^^^^
// ! PluginDayzPlayerDebug_OtherCmds
class PluginDayzPlayerDebug_OtherCmds
■// widgets
■Widget■■■■■■m_MainWnd;
■XComboBoxWidget ■■■■■m_DeathTypeCB;
■EditBoxWidget ■■■■■■ DeathDirectionEdit:
■ButtonWidget■■■■■■m_DeathStartButton;
■XComboBoxWidget ■■■■■m_HitTypeCB;
■ButtonWidget■■■■■■ HitStartButton;
■XComboBoxWidget ■■■■■ UnconTypeCB:
■ButtonWidget■■■■■m_UnconStartButton;
■ButtonWidget■■■■■■ UnconEndButton;
■// command handler properties
■bool■■■■■■■■m_CH_DeathStart = false;
■bool■■■■■■■■m_CH_HitStart = false;
■bool■■■■■■■■ CH UnconStart = false;
■bool■■■■■■■■m_CH_UnconEnd■= false;
■// gui stuff
■void PluginDayzPlayerDebug_OtherCmds(Widget pMainWnd)
■ MainWnd = pMainWnd;
■■CreateModuleWidgets();
■void ~PluginDayzPlayerDebug_OtherCmds()
■■DestroyModuleWidgets();
■void CreateModuleWidgets()
■■m_DeathTypeCB■■■= XComboBoxWidget.Cast( m_MainWnd.FindAnyWidget("DeathTypeCB") );
■■m_DeathDirectionEdit■= EditBoxWidget.Cast( m_MainWnd.FindAnyWidget("DeathDirectionEdit") );
■■m_DeathStartButton■■= ButtonWidget.Cast( m_MainWnd.FindAnyWidget("DeathStartButton") );
■■m_HitTypeCB■■■■= XComboBoxWidget.Cast( m_MainWnd.FindAnyWidget("HitTypeCB") );
■■m_HitStartButton■■= ButtonWidget.Cast( m_MainWnd.FindAnyWidget("HitStartButton") );
■■m_UnconTypeCB■■■= XComboBoxWidget.Cast( m_MainWnd.FindAnyWidget("UnconTypeCB") );
■■m_UnconStartButton■■= ButtonWidget.Cast( m_MainWnd.FindAnyWidget("UnconStartButton") );
■■m_UnconEndButton■■= ButtonWidget.Cast(`m_MainWnd.FindAnyWidget("UnconEndButton") );
```

■void DestroyModuleWidgets()

```
----- PluginDayzPlayerDebug_Weapons.c - START ------
//! PluginDayzPlayerWeaponsDebugUserData
class PluginDayzPlayerWeaponsDebugUserData
■void PluginDayzPlayerWeaponsDebugUserData(int pAction, int pActionType)
■■m_iAction = pAction;
■■m_iActionT = pActionType;
■int■■GetAction()
■■return m_iAction;
■int■■GetActionType()
■■return m_iActionT;
■protected int ■m_iAction;
■protected int ■m_iActionT;
//! PluginDayzPlayerDebug_AbilityConfig
class PluginDayzPlayerDebug_AbilityConfig
■void PluginDayzPlayerDebug_AbilityConfig(string pName, int pAction, int pActionT)
[
■m_Name = pName;
■■m_iAction = pAction;
■■m_iActionT = pActionT;
■}
■string■■m_Name;
■int■■■m_iAction;
■int■■■■m_iActionT;
};
//! PluginDayzPlayerDebug
                          *************
class PluginDayzPlayerDebug_Weapons
■TextListboxWidget■■■m_Selector;
■ButtonWidget■■■■■m_ButtonStart;
```

TextWidget

```
----- PluginDeveloper.c - START ------
class PluginDeveloper extends PluginBase
■protected bool■■■■■■■■■m_lsWinHolding;■
■protected int■■■■■■■■■m_FeaturesMask;
■UIScriptedMenu■■■■■■■■■m_ScriptConsole;
■#ifdef DEVELOPER
■ref PresetSpawnBase ■■■■■■■■m_PresetObj;
■#endif
■static PluginDeveloper GetInstance()
■■return PluginDeveloper.Cast( GetPlugin( PluginDeveloper ) );
■//! Set Player position at his cursor position in the world
■void TeleportAtCursor()
■■DeveloperTeleport.TeleportAtCursorEx();
■//! Teleport player at position
■void Teleport(PlayerBase player, vector position)
■■DeveloperTeleport.SetPlayerPosition(player, position);
■//! Enable / Disable Free camera (Fly mod)
■void ToggleFreeCameraBackPos()
■DeveloperFreeCamera.FreeCameraToggle( PlayerBase.Cast( GetGame().GetPlayer() ), false );
■//! Enable / Disable Free camera (Fly mod) - disable of camera will teleport player at current free camera
■void ToggleFreeCamera()
■■DeveloperFreeCamera.FreeCameraToggle( PlayerBase.Cast( GetGame().GetPlayer() ), true );
■bool IsEnabledFreeCamera()
■■return DeveloperFreeCamera.lsFreeCameraEnabled();
■// System Public Events
■void PluginDeveloper()
■override void OnInit()
■■super.OnInit();
■■DeveloperFreeCamera.OnInit();
```

```
// ----- PluginDeveloperSync.c - START ------
enum PDS_SYSTEMS
■STATS ■■■■= 1,
■LEVELS ■■■= 2,
■MODS ■■■■= 4,
■AGENTS ■■■■= 8.
■STOMACH ■■■= 16,
■MODS_DETAILED ■■= 32,
■TEMPERATURE ■■= 64,
class RegisterPlayerData
■int m_Bitmask;
■int m_DetailedModifierIndex;
■void RegisterPlayerData()
\blacksquare \blacksquare m_Bitmask = 0;
■■m_DetailedModifierIndex = 0;
■}
class PluginDeveloperSync extends PluginBase
■int m_DetailedInfoRequested = 0;
■ref Timer m UpdateTimer;
■ref map<PlayerBase, ref RegisterPlayerData> m_RegisteredPlayers;
■ref array<ref SyncedValue> m_PlayerStatsSynced;
■ref array<ref Param> m_PlayerStomachSynced;
■ref array<ref SyncedValueLevel> m_PlayerLevelsSynced;
■ref array<ref SyncedValueModifier> m_PlayerModsSynced;
■string ■m_PlayerModsDetailedSynced;
■string ■m_EnvironmentDebugMessage;
■ref array<ref SyncedValueAgent> m_PlayerAgentsSynced;
■bool m_StatsUpdateStatus;
■bool m_LevelsUpdateStatus;
■bool m_ModsUpdateStatus;
■bool m_AgentsUpdateStatus;
■bool m_StomachUpdateStatus;
■void PluginDeveloperSync()
■m_RegisteredPlayers ■= new map<PlayerBase, ref RegisterPlayerData>;
■■m_PlayerStatsSynced ■= new array<ref SyncedValue>;
■■m_PlayerLevelsSynced ■= new array<ref SyncedValueLevel>;
■■m_PlayerModsSynced ■■= new array<ref SyncedValueModifier>;
■■m_PlayerAgentsSynced ■= new array<ref SyncedValueAgent>;
■■m_PlayerStomachSynced ■= new array<ref Param>;
■■m_StatsUpdateStatus ■= false;
■■m LevelsUpdateStatus ■= false:
■■m_ModsUpdateStatus ■■= false;
■■m_AgentsUpdateStatus ■= false;
```

■■m. Stomachl IndateStatus ■– false:

```
// ----- PluginDiagMenu.c - START ------
// For modding, see PluginDiagMenuModding.c
// !!! MODDING DISCLAIMER: These are debug functionality files, if you are thinking about modding the value of the property of
                                   These files will not be maintained with the thought of "what if a modder modded this" (Exc
//
//
                                   Which is why the modding functionality was developed with the thought of the modded or
enum DebugActionType
■GENERIC_ACTIONS = 1,
■PLAYER_AGENTS = 2,
\blacksquareUNLIMITED_AMMO = 4,
#ifdef DIAG DEVELOPER
enum ESubscriberSystems
\blacksquareTRIGGERS = 0x00000001,
\blacksquare//SYSTEM2 = 0x00000002,
\blacksquare//SYSTEM3 = 0x00000004,
\blacksquare//SYSTEM4 = 0x00000008,
typedef Param1<int> SendDiagRPCSelfBasicParam;
typedef Param2<int,Param> SendDiagRPCSelfParamParam;
typedef Param2<int,bool> SendDiagRPCBasicParam;
typedef Param3<int,bool,Param> SendDiagRPCParamParam;
#endif
class PluginDiagMenu: PluginBase
#ifdef DIAG_DEVELOPER
■int m_ModdedDiagID = DiagMenuIDs.MODDED_MENU;
■// LEVEL 3 - Script > Misc > Hair Hiding
■ref map<int,bool> m_HairHidingStateMap;
■ref TStringArray m_HairSelectionArray;
■int m_TotalHairLevelsAdjusted;
■override void OnInit()
{
■■m_HairHidingStateMap = new map<int,bool>;
■■m_HairSelectionArray = new TStringArray;
■■g_Game.ConfigGetTextArray("cfgVehicles Head_Default simpleHiddenSelections", m_HairSelectionAr
■■m_TotalHairLevelsAdjusted = m_HairSelectionArray.Count() - 1;
■■for (int i = 0; i < m_HairSelectionArray.Count(); ++i)</p>
■■■m_HairHidingStateMap.Insert(i, 1); //all considered "shown" on init
 ■■//-----
 ■■DiagMenu.InitScriptDiags();
```

■■RegisterDiags();

```
// ----- PluginDiagMenuClient.c - START ------
// For modding, see PluginDiagMenuModding.c
// !!! MODDING DISCLAIMER: These are debug functionality files, if you are thinking about modding the va
                  These files will not be maintained with the thought of "what if a modder modded this" (Exc
//
//
                  Which is why the modding functionality was developed with the thought of the modded or
class PluginDiagMenuClient: PluginDiagMenu
#ifdef DIAG_DEVELOPER
■static int m_SystemsMask;
■// Cheats
■bool m_ModifiersDisabled;
■int m_lsInvincible;■
■bool m_StaminaDisabled;
■// Misc
■float m_Playtime;
■bool m_LogPlayerStats;■
■Shape m_VehicleFreeAreaBox;
■ref EnvDebugData m_EnvDebugData;
■override void OnInit()
■super.OnInit();
■■BindCallbacks();
■protected void BindCallbacks()
· //-----
■■// LEVEL 2 - Script > Crafting
■■DiagMenu.BindCallback(DiagMenuIDs.CRAFTING_GENERATE, CBCraftingGenerate);
■■DiagMenu.BindCallback(DiagMenuIDs.CRAFTING_INSTANT, CBCraftingInstant);
■■DiagMenu.BindCallback(DiagMenuIDs.CRAFTING_DUMP, CBCraftingDump);
■■// LEVEL 2 - Script > Vehicles
■■DiagMenu.BindCallback(DiagMenuIDs.VEHICLE_DEBUG_OUTPUT, CBVehicleDebugOutput);
■■DiagMenu.BindCallback(DiagMenuIDs.VEHICLE_DUMP_CRASH_DATA, CBDumpCrashData);
■■// LEVEL 2 - Script > Cheats
■■DiagMenu.BindCallback(DiagMenuIDs.CHEATS_MODIFIERS, CBCheatsModifiers);
■■DiagMenu.BindCallback(DiagMenuIDs.CHEATS_KILL_PLAYER, CBCheatsKillPlayer);
■■DiagMenu.BindCallback(DiagMenuIDs.CHEATS_INVINCIBILITY, CBCheatsInvincibility);
■ DiagMenu.BindCallback(DiagMenuIDs.CHEATS_INVINCIBILITY, CBCheatsInvincibility),
■ DiagMenu.BindCallback(DiagMenuIDs.CHEATS_DISABLE_STAMINA, CBCheatsStaminaDisable);
■ DiagMenu.BindCallback(DiagMenuIDs.CHEATS_RESET_PLAYER, CBCheatsResetPlayer);
■ DiagMenu.BindCallback(DiagMenuIDs.CHEATS_RESET_PLAYER_MAX, CBCheatsResetPlayerMax)
■ DiagMenu.BindCallback(DiagMenuIDs.CHEATS_INVENTORY_ACCESS, CBCheatsInventoryAccess)
■■DiagMenu.BindCallback(DiagMenuIDs.CHEATS_FIX_ITEMS, CBCheatsFixItems);
■■// LEVEL 2 - Script > Player Agents
```

```
// ----- PluginDiagMenuModding.c - START -----
* \defgroup Modding Modding DiagMenu
*■\warning Only available on developer and diag builds
 *■\note This file is extensive documentation about modding DiagMenu, please read EVERYTHING before
* @{
#ifdef DOXYGEN
#ifdef MODDING_TEST
#ifdef DIAG_DEVELOPER
\brief Example of adding DiagMenu entries by modders
■\note PluginDiagMenu is the base of ..Client and ...Server, which is why we are registering the IDs on thi
■\note Keep in mind that in SinglePlayer missions, both Client and Server PluginDiagMenu are created
■\note Keep in mind that PluginDiagMenu... is destroyed and recreated every time the world changes
#ifdef DOXYGEN
class PluginDiagMenuModded // Just to not have it show up for the regular entry... Doxygen doesn't know
modded class PluginDiagMenu
#endif
`**
■\brief The name of the root menu where all debugs of this mod will be placed in
■■\note Try to think of a name which will make it easy to identify as originating from your mod
■■\note The 'maximum' length of the name of an entry is 24 characters (excess will be cut off when rende
■■\note The hardcap length of the name of an entry is 64 characters
mathrowing m_ModdedDiagsExampleRootMenu = "BI - DiagsModdingExample";
/**
■\brief The name of an example sub menu
■protected string m_ModdedDiagsExampleSubMenu = "Example Sub Menu";
■/** \name Modded Diag IDs
■*■To prevent mod conflicts, a system has been set up to create unique IDs for the modded Diags
■*■These are then best saved to a variable so that they can be used by the other DiagMenu functions
■*■!!! Remember to give them as unique as possible name, as something with a generic name could cause
*/
//@{
■protected int m_ModdedDiagsExampleRootMenulD;
■■protected int m_ModdedDiagsExampleBoolID;
■protected int m_ModdedDiagsExampleSubMenuID;
protected int m ModdedDiagsExampleRangelD:
I//@}
■\brief Obtain unique IDs and store them in variables
■■\warning Please only call GetModdedDiagID when necessary, as every time it is called it will increment
■■\note Don't forget to call super!
*/
■override protected void RegisterModdedDiagsIDs()
```

■■super.RegisterModdedDiagsIDs();

```
// ----- PluginDiagMenuServer.c - START ------
// For modding, see PluginDiagMenuModding.c
// !!! MODDING DISCLAIMER: These are debug functionality files, if you are thinking about modding the va
//
               These files will not be maintained with the thought of "what if a modder modded this" (Exc
//
               Which is why the modding functionality was developed with the thought of the modded or
class PluginDiagMenuServer : PluginDiagMenu
#ifdef DIAG_DEVELOPER
■static ref map<Man, int> m_Subscribers = new map<Man, int>;
■// A bit of a hack, because SP creates both Client and Server Plugins
■override private void RegisterDiags()
■■if (GetGame().IsMultiplayer())
■■■super.RegisterDiags();
==}
•}
■override void OnRPC(PlayerBase player, int rpc_type, ParamsReadContext ctx)
■■super.OnRPC(player, rpc_type, ctx);
■■switch (rpc_type)
{
■■ case ERPCs.DEV_DIAGMENU_SUBSCRIBE:
■■■if (ctx.Read(CachedObjectsParams.PARAM1_INT))
■■■■int newMask = CachedObjectsParams.PARAM1_INT.param1;
■■■■int currentMask = m_Subscribers.Get(player);
■■■■if (newMask != currentMask)
■■■■■if (newMask == 0)
  ----
 ■■■■■■m_Subscribers.Remove(player);
Example else
■■■■■■■m_Subscribers.Set(player, newMask);
■■■break;
■■■case ERPCs.DIAG_VEHICLE_DEBUG_OUTPUT:
■■■if (ctx.Read(CachedObjectsParams.PARAM1_INT))
■■■■CarScript.DEBUG_OUTPUT_TYPE = CachedObjectsParams.PARAM1_INT.param1;
■■■break:
 ■■■case ERPCs.DIAG_VEHICLES_DUMP_CRASH_DATA_REQUEST:
■■■if (ctx.Read(CachedObjectsParams.PARAM1_BOOL))
```

■■■■CrashDehugData SendData(nlaver)

```
// ----- PluginDoorRuler.c - START ------
class PluginDoorRuler extends PluginBase
■PluginDeveloper m_ModuleDeveloper;
■ItemBase m_Ruler;
■ref Timer m_Timer;
■bool m_Initialized;
■void CheckInit()
■■if(FreeDebugCamera.GetInstance().IsActive())
■■■Init();
■void Init()
■■if(m_Ruler)
■■■m_Ruler.Delete();
■■m_Initialized = true;
■■m_Ruler = ItemBase.Cast( GetGame().CreateObject("DoorTestCamera", FreeDebugCamera.GetInstal
■override void OnUpdate(float delta_time)
■■if(!m_Initialized) return;
■■if(!FreeDebugCamera.GetInstance().IsActive()) return;
■■if(!m_Ruler) return;
■■vector cam_pos = FreeDebugCamera.GetInstance().GetPosition();
■■vector ruler_pos = m_Ruler.ĞetPosition();
■■vector camera_dir = FreeDebugCamera.GetInstance().GetDirection();
■■camera_dir.Normalize();
■■m_Ruler.SetPosition(FreeDebugCamera.GetInstance().GetPosition() + ( camera_dir * 2) );
■■m_Ruler.SetAngles(FreeDebugCamera.GetInstance().GetAngles());
}
// ----- PluginDoorRuler.c - END -----
// ----- PluginDrawCheckerboard.c - START ------//
// quick and dirty way for displaying of checker overlay on screen
// - userd for camera settings primarily
class PluginDrawCheckerboard extends PluginBase
■private ref Widget m_MainWindow;
■private bool■■m_IsActive;
■void PluginDrawCheckerboard()
```

```
----- PluginFileHandler.c - START ------
class PluginFileHandler extends PluginBase
■static bool FileDuplicate(string source_name, string dest_name)
■■return CopyFile(source_name, dest_name);
■static bool FileDelete(string file)
■ return DeleteFile(file);
■static void FileRename(string source_name, string dest_name)
■■FileDuplicate(source_name, dest_name);
■■FileDelete(source_name);
■bool m_ReadOnly;
■int■■m_LineLimit;
■ref TStringArray
■m_FileContent;
■void PluginFileHandler()
■■m_FileContent = new TStringArray;
\blacksquare \blacksquare m_LineLimit = -1;
■LoadFile();
■void ~PluginFileHandler()
■ ClearFileNoSave();
■override void OnInit()
■■super.OnInit();
}
■string GetFileName()
■ return string. Empty;
■void ClearFileNoSave()
■ m_FileContent.Clear();
■bool LoadFile()
■ClearFileNoSave();
■■FileHandle file_index = OpenFile(GetFileName(), FileMode.READ);
```

■■if (file index -- 0)

```
----- PluginHorticulture.c - START ------
class PluginHorticulture extends PluginBase
■ref map<string, ref PlantMaterialHealth> m_PlantMaterials;
■void PluginHorticulture()
■■m_PlantMaterials = new map<string, ref PlantMaterialHealth>;
■■LoadFromCfg();
■void LoadFromCfg()
■■string cfg_access = "CfgHorticulture"; // it is stored in dz\gear\cultivation\cfgHorticulture.hpp
■■int cfg_horticulture_count = GetGame().ConfigGetChildrenCount( cfg_access );
■■for (int i = 0; i < cfg_horticulture_count; i++)
■■string cfg_class_name = "";
■■■GetGame().ConfigGetChildName( cfg_access, i, cfg_class_name );
■■■string cfg_class_access = cfg_access + " " + cfg_class_name;
■■■int cfg_class_count = GetGame().ConfigGetChildrenCount( cfg_class_access );
■■■for ( int j = 0; j < cfg_class_count; j++ )
■■■■string cfg_subclass_name = "";
■■■GetGame().ConfigGetChildName( cfg_class_access, j, cfg_subclass_name );
■■■string cfg_subclass_access = cfg_class_access + " " + cfg_subclass_name;
■■■■int cfg_subclass_count = GetGame().ConfigGetChildrenCount( cfg_subclass_access );
 ■■■PlantMaterialHealth plantMaterialHealth = NULL;
■■■if ( cfg_class_name == "Plants" )
  I■■plantMaterialHealth = new PlantMaterialHealth;
■■■■m_PlantMaterials.Set( cfg_subclass_name, plantMaterialHealth );
■■■for ( int k = 0; k < cfg_subclass_count; k++ )
■■■■string cfg_variable_name = "";
■■■■GetGame().ConfigGetChildName( cfg_subclass_access, k, cfg_variable_name );
■■■■string cfg_variable_access = cfg_subclass_access + " " + cfg_variable_name;
■■■■if(cfg_class_name == "Plants")
  ■■■■string string_param = "";
■■■■■■GetGame().ConfigGetText( cfg_variable_access, string_param );
  ■■■■if(cfg_variable_name == "infestedTex")
  ■■■■■plantMaterialHealth.m_InfestedTex = string_param;
    ■■■else if ( cfg_variable_name == "infestedMat" )
```

■■■■nlantMaterialHealth m InfestedMat – string param:

```
// ----- PluginItemDiagnostic.c - START -----
class PluginItemDiagnosticEventHandler extends ScriptedWidgetEventHandler
■PluginItemDiagnostic m_Owner;
■override bool OnMouseEnter(Widget w, int x, int y)
■■if( ButtonWidget.Cast(w))
■■■GetGame().GetMission().AddActiveInputExcludes({"menu"});
■ return true;
|
■override bool OnMouseLeave(Widget w, Widget enterW, int x, int y)
■■if( ButtonWidget.Cast(w))
■■■GetGame().GetMission().RemoveActiveInputExcludes({"menu"},true);
■ return true;
■override bool OnClick( Widget w, int x, int y, int button )
■■return m_Owner.OnClick( w, x, y, button );
■override bool OnMouseButtonDown(Widget w, int x, int y, int button)
■■return m_Owner.OnMouseButtonDown( w, x, y, button );
■override bool OnMouseButtonUp(Widget w, int x, int y, int button)
■ return m_Owner.OnMouseButtonUp( w, x, y, button );
■}
class PluginItemDiagnostic extends PluginDeveloper
■Object m_Entity;
■ref Timer ■■■■■myTimer1;
■ref map<PlayerBase,Object> ■m_ObserversMap = new map<PlayerBase,Object>;
■ref array<string> ■■■■m_Agents = new array<string>;
■ref map<string,float> ■■■m_Floats = new map<string,float>;
■ref map<string,float> ■■■m_VarsNumbersFinalServer = new map<string,float>;
■ref map<string,float> ■■■m_VarsFinalClient = new map<string,float>;
■ref array<ref Param>■■m_Properties = new array<ref Param>;
■bool ■■■■■■■■■m_lsActive == false;
■bool■■■■■■■■m_ScriptMenuOpened;
■string■■■■■■■■■■■■■■■■NoteClient;
■ref PluginItemDiagnosticEventHandler ■m_EventHandler;
■bool■■■■■■■■m_lsDragging;
```

PluginConfigDebugProfile m ConfigDebugProfile:

```
// ----- PluginKeyBinding.c - START ------
 * \defgroup MouseEvents Mouse Events
 * \desc constants for mouse events in PluginKeyBinding
const int MB_EVENT_PRESS■■= 0;
const int MB_EVENT_CLICK■■■= 1;
const int MB_EVENT_RELEASE■■= 2;
const int MB_EVENT_DOUBLECLICK■■= 3;
const int MB_EVENT_DRAG■■■= 4;
/** @}*/
class PluginKeyBinding extends PluginBase
■static PluginKeyBinding instance;
■// System Public Events
■void PluginKeyBinding()
■■if (instance == null)
■■■instance = this:
==}
■}
■// OnInit
■override void OnInit()
■■super.OnInit();
■■m_KeyBindings■= new array<ref KeyBinding>;
■■m_MouseBindings■= new array<ref MouseBinding>;
■■m_MouseButtons■= new array<ref MouseButtonInfo>;
■■m_MouseButtons.Insert ( new MouseButtonInfo( MouseState.LEFT ) );
■■m_MouseButtons.Insert ( new MouseButtonInfo( MouseState.RIGHT ) );
■■m_MouseButtons.Insert ( new MouseButtonInfo( MouseState.MIDDLÉ ) );
■■GetGame().GetUpdateQueue(CALL_CATEGORY_SYSTEM).Insert(this.OnFrame);
■■//Keyboard Binds■|UI_ID■■■■■■■|Key1■■■■|Key2■■■■|Callback Plugin■■|Callback Function
■■//■■■■|constants.h■■■■|constants.h■■|constants.h■■|only plugin name■■|only function■■■
■■//■■■■■|MENU_***■■■■■|KeyCode.KC_***■■|KeyCode.KC_***■■|in plugin■■■■|
■#ifdef DEVELOPER
■■RegisterKeyBind(■ MENU_ANY■■■■■,KeyCode.KC_LCONTROL■,KeyCode.KC_F1■■,"PluginD
■■ReğisterKeyBind(■ MENU_ANY■■■■■,KeyCode.KC_LCONTROL■,KeyCode.KC_F2■■,"PluğinD
■ RegisterKeyBind(■ MENU_NONE|MENU_SCRIPTCONSOLE■,KeyCode.KC_LCONTROL■,KeyCode.RegisterKeyBind(■ MENU_NONE|MENU_SCRIPTCONSOLE■,KeyCode.KC_RCONTROL■,KeyCode.RegisterKeyBind(■ MENU_NONE|MENU_SCENE_EDITOR■,KeyCode.KC_LCONTROL■,KeyCode.RegisterKeyBind(■ MENU_NONE|MENU_SCENE_EDITOR■,KeyCode.KC_LCONTROL■,KeyCode.RegisterKeyBind(■ MENU_NONE|MENU_SCENE_EDITOR■,KeyCode.RegisterKeyBind(■ MENU_NONE|MENU_SCENE_EDITOR■,Menu_Scene_EDITOR■,Menu_Scene_EDITOR■,Menu_Scene_EDITOR■,Menu_Scene_EDITOR■,Menu_Scene_EDITOR■,Menu_Scene_EDITOR■,Menu_Scene_EDITOR■,Menu_Scene_EDITOR■,Menu_Scene_EDITOR■,Menu_Scene_EDITOR■,Menu_Scene_EDIT
■■RegisterKeyBind(■ MENU_NONE MENU_SCENE_EDITOR■, KeyCode.KC_RCONTROL■, KeyCode.I
■■RegisterKeyBind(■ MENU NONE■■■■■■,KeyCode.KC LCONTROL■,KeyCode.KC V■■,"PluginD
■#endif
```

■■#ifdef DIAG DEVELOPER

```
// ----- PluginLifespan.c - START -----
// LIFESPAN plugin
Lifespan plugin handles player facial hair, bloody hands, blood type in HUD
enum eBloodyHandsTypes
■CLEAN = 0,//clean needs to be 0
■SALMONELA,
■JUST_BLOOD
■//--- ONLY LAST_INDEX BELLOW !!!
■LAST_INDEX,
enum LifeSpanState
■BEARD_NONE■■= 0,
■BEARD_MEDIUM■= 1,
■BEARD_LARGE■■= 2,■
■BEARD_EXTRA■■= 3,■
\blacksquare COUNT \blacksquare \blacksquare \blacksquare = 4,
class PluginLifespan extends PluginBase
■protected static const int LIFESPAN_MIN = 0;
■protected static const int LIFESPAN_MAX = 240; // value in minutes when player achieved maximum ag
■protected int m_FakePlaytime;
■protected ref map<PlayerBase, ref LifespanLevel> m_PlayerCurrentLevel;
■protected ref map<string, ref array< ref LifespanLevel>> m_LifespanLevels:
■protected ref map<string, ref BloodyHands> m_BloodyHands;
■protected ref map<PlayerBase, int> m_BloodType;
■// GetInstance
■static PluginLifespan GetInstance()
■■return PluginLifespan.Cast( GetPlugin(PluginLifespan) );
■}
■void PluginLifespan()
■■LoadFromCfg();
m_PlayerCurrentLevel = new map<PlayerBase, ref LifespanLevel>;
■■m_BloodType = new map<PlayerBase, int>;
\blacksquare \blacksquare m_FakePlaytime = 0;
■}
//-----
// Player load from config
■void LoadFromCfg()
```

■■m LifespanLevels – new man/string ref array/ ref LifespanLevel>>:

```
// ------ PluginLocalEnscriptHistory.c - START ------
class PluginLocalEnscriptHistory extends PluginLocalHistoryBase
■void PluginLocalEnscriptHistory()
■}
■void ~PluginLocalEnscriptHistory()
■}
■override string GetFileName()
■ireturn CFG_FILE_ENS_HISTORY;
class PluginLocalEnscriptHistoryServer extends PluginLocalHistoryBase
■void PluginLocalEnscriptHistoryServer()
■void ~PluginLocalEnscriptHistoryServer()
■override string GetFileName()
■ireturn CFG_FILE_ENS_HISTORY_SERVER;
// ----- PluginLocalEnscriptHistory.c - END ------
// ----- PluginLocalHistoryBase.c - START -----
class PluginLocalHistoryBase extends PluginFileHandler
■void PluginLocalHistoryBase()
■m_ReadOnly = false;
■void ~PluginLocalHistoryBase()
■override void OnInit()
```

```
// ----- PluginLocalProfile.c - START ------
class PluginLocalProfile extends PluginFileHandler
■ref map<string, string>■■■■■m_ConfigParams;
■ref map<string, ref TStringArray>■■■m_ConfigParamsArray;
■ref map<string, ref map<string, string>>■■m_ConfigParamsInArray;
■ref map<string, ref array<ref map<string, string>>>■m_ConfigParamsArrayInArray;
■void PluginLocalProfile()
■ ConfigParams = new map<string, string>;
■■m ConfigParamsArray■■■= new map<string, ref TStringArray>;
■■m_ConfigParamsInArray■■= new map<string, ref map<string, string>>;
■■m_ConfigParamsArrayInArray■= new map<string, ref array<ref map<string, string>>>;
■override string GetFileName()
■ return CFG_FILE_USER_PROFILE;
■override void OnInit()
■super.OnInit();
■■LoadConfigFile();
•}
■bool LoadConfigFile()
■■TStringArray file_content = GetFileContent();
■■string line_content = "";
■■string param_name = "";
■■string param_value = "";
■■TStringArray param_content;
\blacksquareint pos_sep = -1;
\blacksquare for (int i = 0; i < file_content.Count(); ++i)
■■■line_content = file_content.Get(i);
param_content = ParseTextToParameter(line_content);
IDENTIFY if ( param_content.Count() == 0 )
■■■PrintString(GetFileName()+"("+i.ToString()+"): Error in config -> Maybe missing '='!");
■■■■return false;■■■
——}
■■■param_name■= param_content.Get(0);
■■■param_value■= param_content.Get(1);
■■■//{{name = apple, damage = 0.5, quantity = 2},{name = banana, damage = 0.5, quantity = 2}}
■■■TStringArray array_items = new TStringArray;
■■■ParseTextToArray(param_value, array_items);
\blacksquare \blacksquare \blacksquare //\{\text{name} = \text{apple}, \, \text{dämage} = 0.5, \, \text{quantity} = 2\}
```

■■///name – hanana damage – 0.5 guantity –

```
// ----- PluginLocalProfileScene.c - START ------
//Mission = "ChernarusPlus"
typedef CfgParamString DefCfgParamString
//InitTime = 220
typedef CfgParamInt DefCfgParamInt
//InitWeatherRain = 0.5
typedef CfgParamFloat DefCfgParamFloat
//InitWeatherFog = 0.3
typedef CfgParamFloat DefCfgParamFloat
//SceneObjectsCount = 1
typedef CfgParamInt DefCfgParamInt
class PluginLocalProfileScene extends PluginLocalProfile
■private const string FILE_ROOT■■= "$saves:";
■private const string FILE_ROOT_SCENES■= "Scenes";
■private const string PARAM_MISSION■■= "Mission";
■private const string PARAM_TIME
■= "InitTime";
■private const string PARAM_RAIN■■■= "InitWeatherRain";
■private const string PARAM_FOG■■■= "InitWeatherFog";
■private const string PARAM_OBJ_COUNT■= "SceneObjectsCount";
■private const string PARAM_OBJ_NAME■■= "SceneObject";
■private string m_FileSceneName;
■// GetPathScenes
■string GetPathScenes()
■ return FILE_ROOT+"\\"+FILE_ROOT_SCENES;
■// GetFileName
■override string GetFileName()
■■string file_name = GetPathScenes()+"\\"+m_FileSceneName;
■■return file_name;
■// OnInit
■override void OnInit()
■■super.OnInit();
■}
■// GetSceneList
```

```
// ----- PluginManager.c - START ------
class PluginManager
■private ref array<typename>■■■■■■ PluginRegister; / list of modules for creation
■private ref map<typename, ref PluginBase>■m_PluginsPtrs;■■// plugin, plugin pointer
■// Constructor
■void PluginManager()
■■m_PluginRegister■= new array<typename>;
■■m_PluginsPtrs■■= new map<typename, ref PluginBase>;
■// Destructor
■void ~PluginManager()
■■int i;
■■PluginBase plugin;
\blacksquarefor ( i = 0; i < m_PluginsPtrs.Count(); ++i)
■■■plugin = m_PluginsPtrs.GetElement(i);
■■■if ( plugin != NULL )
■■■plugin.OnDestroy():
■■■ delete plugin;
——}
==}
■■GetGame().GetUpdateQueue(CALL_CATEGORY_GAMEPLAY).Remove(this.MainOnUpdate);
■// Init
■void Init()
{
I
■■// Register modules
II //-----
■■//■■■■Module Class Name ■■■■■■■■Client■Server
■■RegisterPlugin( "PluginHorticulture",■■■■■■true, ■true );
■■RegisterPlugin( "PluginRepairing",■■■■■■■true, ■true );
■RegisterPlugin( "PluginPlayerStatus",■■■■■■■■■■■■ true );
■RegisterPlugin( "PluginMessageManager",■■■■■■■■■ true );
■■RegisterPlugin( "PluginTransmissionAgents",■■■■■true, ■true );
```

```
// ----- PluginMessageManager.c - START ------
/*! Class PluginMessageManager provides some basic Message Distribution mechanics, if you get instanc
you can use its methods to broadcast messages.
class PluginMessageManager extends PluginBase
■int channelsUsed = 0:
■ref array<ref MessageReceiverBase>■channelList[NUM_OF_CHANNELS];
■void PluginMessageManager()
\blacksquarefor (int i = 0; i < NUM_OF_CHANNELS; i++)
■■■channelList[i] = new array<ref MessageReceiverBase>;
■//! Broadcasts an empty message on a channel provided in the 'index' parameter
■void Broadcast(int index)
■■//Debug.Log("Broadcasting message on a channel: "+ ToString(index), "Messaging System");
■■array<ref MessageReceiverBase> x = channelList[index];
\blacksquarefor(int i = 0; i < x.Count(); i++)
■■■MessageReceiverBase mrb = x.Get(i);
■■■if(■mrb!= NULL)
{
■■■//string s = "Broadcasting message to: "+ToString(mrb);
■■■//Log(s, LogTemplates.TEMPLATE_BROADCAST);
■■■mrb.OnReceive(index);
——}
——}
■//! Broadcasts a message on a channel provided in the 'index' parameter, passes the Int variable
■void BroadcastInt(int index, int value)
•{
■■//Debug.Log("Broadcasting message on a channel: "+ ToString(index), "Messaging System");
■■array<ref MessageReceiverBase> x = channelList[index];
| Image: Im
\blacksquarefor(int i = 0; i < x.Count(); i++)
■■■MessageReceiverBase mrb = x.Get(i);
■■■if(■mrb )
 -----
■■■//string s = "Broadcasting message to: "+ToString(mrb);
■■■//Log(s, LogTemplates.TEMPLATE_BROADCAST);
■■■mrb.OnReceiveInt(index, value);
■void BroadcastFloat(int index, float value)
```

■■//Debug Log("Broadcasting message on a channel: "+ ToString(index) "Messaging System"):

```
----- PluginMissionConfig.c - START ------
class PluginMissionConfig extends PluginConfigHandler
■protected const string FILE_NAME
■■= "scene_editor.cfg";
■protected const string SCENE_EDITOR_SCENE = "scene_load";
 // GetInstance
■static PluginMissionConfig GetInstance()
■ return PluginMissionConfig.Cast( GetPlugin(PluginMissionConfig) );
■// OnInit
■override void OnInit()
■■super.OnInit();
■■CfgParamString cfg_scene_name = CfgParamString.Cast( GetParamByName( SCENE_EDITOR_SCENT Control of the co
■■if ( cfg_scene_name.GetValue() == STRING_EMPTY )
■■■cfg_scene_name.SetValue( PluginSceneManager.SCENE_DEFAULT_NAME );
■■SaveConfigToFile();
■}
■// GetFileName
■override string GetFileName()
■ return g_Game.GetMissionFolderPath() +"\\"+ FILE_NAME;
■// GetSceneEditorName
■string GetSceneEditorName()
■■CfgParamString cfg_scene_name = CfgParamString.Cast( GetParamByName( SCENE_EDITOR_SCE
■■if ( cfg_scene_name.GetValue() == STRING_EMPTY )
■■■cfg_scene_name.SetValue( PluginSceneManager.SCENE_DEFAULT_NAME );
■■■SaveConfigToFile();
}
■■return cfg_scene_name.GetValue();
■// SetSceneEditorName
```

■void SetSceneEditorName(string value)

```
// ----- PluginNutritionDumper.c - START -----
class PluginNutritionDumper extends PluginBase
\_/*
■ref TStringArray m_AllPaths = new TStringArray;
■ref TStringArray m_AllLines = new TStringArray;
■ref map<string, int> m_ParamPool = new map<string, int>;
■string config_path;
■string child_name;
■int scope;
■string path;
■PlayerBase m_Player;
■override void OnInit()
■■m_AllPaths.Insert("CfgVehicles");
■■m_AllPaths.Insert("cfgLiquidDefinitions");
■■m_Player = PlayerBase.Cast(GetGame().GetPlayer());
■void CheckInit()
■■m_AllLines.Clear();
string line = "Classname(stage), energy, water, toxicity, fullnessIndex, nutritionalIndex";
■■m_AllLines.Insert(line);
\blacksquarefor(int i = 0; i < m_AllPaths.Count(); i++)
■■■config_path = m_AllPaths.Get(i);
■■■int children_count = GetGame().ConfigGetChildrenCount(config_path);
TEM for (int x = 0; x < children\_count; x++)
■■■GetGame().ConfigGetChildName(config_path, x, child_name);
path = config_path + " " + child_name;
TEMPS scope = GetGame().ConfigGetInt( config_path + " " + child_name + " scope" );
■■■■bool should_check = 1;
■■■if(config_path == "CfgVehicles" && scope == 0)
■■■■should_check = 0;
■■■if ( should_check )
■■■■bool has_nutrition = GetGame().ConfiglsExisting(path + " Nutrition");
TEMPS bool has_stages = GetGame().ConfiglsExisting(path + " Food");
■■■■■if(has_nutrition || has_stages)
■■■■■EntityAl item = PlayerBase.Cast(GetGame().GetPlayer()).SpawnEntityOnGroundOnCursorDir(c
Example 1 Edible Base edible = Edible Base.Cast(item):
■■■■■if(edible)
■■■■■■//Print("spawning " + child_name);
 ■■■■■■line = "";
 ■■■■■■NutritionalProfile profile;
 ■■■■■■if(!has_stages)
```

I BERNARD DE PROFILE - edible GetNutritionalProfile():

```
----- PluginObjectsInteractionManager.c - START ------
class PluginObjectsInteractionManager extends PluginBase
■private ref ■■array<Object> m_LockedObjects;
■private ref ■■array<float> m_LockedObjectsDecay;
■private const float ■TIME_TO_FORCED_UNLOCK = 60;
■private const float ■TICK RATE = 10:
■private ref Timer m_DecayTimer;
■void PluginObjectsInteractionManager()
•{
LockedObjects = new array<Object>:
■■m_LockedObjectsDecay = new array<float>;
■■//TIMERDEPRECATED - timer for decaying objects
■■m_DecayTimer = new Timer();
■■m_DecayTimer.Run(TICK_RATE, this, "Decay", NULL,true);
■bool IsFree(Object target)
■■if (target && m_LockedObjects.Count() > 0)
for (int i = 0; i < m_LockedObjects.Count(); i++)
■■■if ( m_LockedObjects.Get(i) == target )
-----
■■■■return false;
——}
| | |
■■return true;
•}
■void Lock(Object target)
■■if (target &&!IsFree(target))
■■■m_LockedObjects.Insert(target);
■■■m_LockedObjectsDecay.Insert(0);
|
■void Release(Object target)
■■if (target && m_LockedObjects.Count() > 0)
■■■for ( int i = 0; i < m_LockedObjects.Count(); i++ )
■■■if ( m_LockedObjects.Get(i) == target )
■■■■m_LockedObjects.Remove(i);
■■■■■m_LockedObjectsDecay.Remove(i);
■■■■break;
■■■■}
```

■//FAIL SAFF - checks periodically locked objects and releases them automaticaly if given time has passe

```
// ----- PluginPermanentCrossHair.c - START ------
class PluginPermanentCrossHair extends PluginBase
■private Hud m_Hud;
■void SwitchPermanentCrossHair(bool state)
■if (!m_Hud)
■■m_Hud = GetGame().GetMission().GetHud();
■■m_Hud.SetPermanentCrossHair(state);
■}
// ----- PluginPermanentCrossHair.c - END ------
// ----- PluginPlayerStatus.c - START ------
class PluginPlayerStatus extends PluginBase
■ref multiMap<int, string> ■m_NotifiersLabel;
■ref multiMap<int, int>■■m_NotifiersIndexColor;
■private ref multiMap<int, string>■m_NotifiersIcons;
■void PluginPlayerStatus()
■■m_NotifiersLabel = new multiMap<int, string>; // [key] label
■■m_NotifiersIndexColor = new multiMap<int, int>; // [key] index, color
■■m_NotifiersIcons = new multiMap<int, string>; // [key] iconName
■■m_NotifiersIcons.Insert( NTFKEY_HUNGRY, "iconHunger" );
■■m_NotifiersIcons.Insert( NTFKEY_THIRSTY, "iconThirsty" );
■ MotifiersIcons.Insert( NTFKEY_SICK, "iconHealth" );
■ MotifiersIcons.Insert( NTFKEY_BACTERIA, "iconBacteria" );
■ MotifiersIcons.Insert( NTFKEY_BLEEDISH, "iconBlood" );
■ MotifiersIcons.Insert( NTFKEY_FEVERISH, "iconTemperature" );
■■m_NotifiersIcons.Insert( NTFKEY_FRACTURE, "iconFracture" );
■void SetNotifier(int key, int index = 9, string label = "", int color = 0xFFFFFFF)
■■if ( key )
■■{
■■■if ( m NotifiersLabel.HasKey( key ) )
■■■■m_NotifiersLabel.Remove( key );
■■■■m_NotifiersIndexColor.Remove( key );
■■■}
■■if ( label != "" )
```

■■■m NotifiersLaheLInsert/ key JaheL\.

```
----- PluginPresenceNotifier.c - START ------
enum EPresenceNotifierNoiseEventType
■LAND_LIGHT,
■LAND_HEAVY,
class PresenceNotifierNoiseEvent
■protected float m_TimerLength;
■protected int m_Value;
■void PresenceNotifierNoiseEvent(float pValue, float pLength)
■m_Value = pValue;
■■m_TimerLength = pLength;
■float GetTimerLength()
■■return m_TimerLength;
■int GetValue()
■■return m_Value;
class PresenceNotifierNoiseEvents
■protected int m_Value;
■protected static ref map<EPresenceNotifierNoiseEventType, ref PresenceNotifierNoiseEvent> ■m_Pres
■protected ref Timer m_CooldownTimer;
■void PresenceNotifierNoiseEvents()
\blacksquare m_Value = 0;
■■m_CooldownTimer = new Timer(CALL_CATEGORY_SYSTEM);
■■m_PresenceNotifierNotifierEvents = new ref map<EPresenceNotifierNoiseEventType, ref PresenceNotifierNoiseEventType, ref PresenceNotifie
■void RegisterEvent(EPresenceNotifierNoiseEventType pEventType, int pValue, float pLength)
■■PresenceNotifierNoiseEvent pnne = new PresenceNotifierNoiseEvent(pValue, pLength);
■■m_PresenceNotifierNotifierEvents.Insert(pEventType, pnne);
■}
■void ProcessEvent(EPresenceNotifierNoiseEventType pEventType)
■■PresenceNotifierNoiseEvent pnne;
■■pnne = m_PresenceNotifierNotifierEvents.Get(pEventType);
■■if (m_CooldownTimer.IsRunning())
```

■■m_CooldownTimer.Stop();

```
----- PluginRecipesManager.c - START ------
enum ERecipeSanityCheck
\blacksquareIS_IN_PLAYER_INVENTORY = 1,
■NOT_OWNED_BY_ANOTHER_LIVE_PLAYER = 2,
■CLOSE_ENOUGH = 4,
const float ACCEPTABLE_DISTANCE = 5;
const int SANITY_CHECK_ACCEPTABLE_RESULT = ERecipeSanityCheck.NOT_OWNED_BY_ANOTHI
class PluginRecipesManager extends PluginRecipesManagerBase
■static ref map<string,ref CacheObject > m_RecipeCache = new map<string,ref CacheObject >;
static ref map<typename, bool> m_RecipesInitializedItem = new ref map<typename, bool>;
■ref Timer m_TestTimer;
■const int MAX_NUMBER_OF_RECIPES = GetMaxNumberOfRecipes();
■const int MAX_CONCURENT_RECIPES = 128;
■const int MAX_INGREDIENTS = 5;
■int m_RegRecipeIndex;
■int m_ResolvedRecipes[MAX_CONCURENT_RECIPES];
■bool m_EnableDebugCrafting = false;
■ItemBase m_Ingredients[MAX_INGREDIENTS];
■int m IngredientBitMask[MAX INGREDIENTS];
■int m_IngredientBitMaskSize[MAX_INGREDIENTS];
■int m_BitsResults[MAX_INGREDIENTS];
■ItemBase m_ingredient1[MAX_CONCURENT_RECIPES];
■ItemBase m_ingredient2[MAX_CONCURENT_RECIPES];
■ItemBase m_ingredient3[MAX_CONCURENT_RECIPES];
■ItemBase m_sortedIngredients[MAX_NUMBER_OF_INGREDIENTS];
■ref array<int> m_RecipesMatched = new array<int>;
■ref array<string> m_CachedItems = new array<string>;
■ref array<ref RecipeBase> m_RecipeList = new array<ref RecipeBase>;//all recipes
static ref map<string, int> m_RecipeNamesList = new map<string, int>;//all recipes
■ref Timer myTimer1;
■static int GetMaxNumberOfRecipes()
■return 2048;
■}
■void PluginRecipesManager()
■■CreateAllRecipes();
■■GenerateRecipeCache();
```

■■myTimer1 – new Timer()·

```
// ----- PluginRecipesManagerBase.c - START ------
enum Ingredient
■FIRST = 1,
\blacksquareSECOND = 2,
■BOTH = 3;
class PluginRecipesManagerBase extends PluginBase
■protected void RegisterRecipe(RecipeBase recipe);
protected void UnregisterRecipe(string clasname):
■//! Please do not delete commented recipes, they are usually commented out for a reason
■void RegisterRecipies()
■■RegisterRecipe(new CraftTorch);
■■RegisterRecipe(new CraftFireplace);
■■RegisterRecipe(new CraftLongTorch);
■■RegisterRecipe(new SharpenBroom);
■■RegisterRecipe(new SharpenLongStick);
■■RegisterRecipe(new PokeHolesBarrel);
■■RegisterRecipe(new CraftBaseBallBatNailed);
■■RegisterRecipe(new CraftBaseBallBatBarbed);
■■RegisterRecipe(new CraftGhillieHood);
■■RegisterRecipe(new DeCraftGhillieHood);
■■RegisterRecipe(new CraftGhillieAttachment);
■■RegisterRecipe(new DeCraftGhillieAttachment);
■■RegisterRecipe(new CraftGhillieBushrag);
■■RegisterRecipe(new DeCraftGhillieBushrag);
■■RegisterRecipe(new CraftGhillieTop);
■■RegisterRecipe(new DeCraftGhillieTop);
■■RegisterRecipe(new CraftGhillieSuit);
■■RegisterRecipe(new DeCraftGhillieSuit);
■■RegisterRecipe(new CraftStoneKnife);
■■RegisterRecipe(new CraftBait);
■■RegisterRecipe(new CraftRagRope);
■■RegisterRecipe(new CraftSuppressor);
■■RegisterRecipe(new CleanWeapon);
■■RegisterRecipe(new RepairWithTape);
■■RegisterRecipe(new RepairWithRags);
■■RegisterRecipe(new RepairEyePatch);
■■RegisterRecipe(new CraftBoneKnife);
■■//RegisterRecipe(new CraftArrow);
■■//RegisterRecipe(new CraftArrowBone);
■■RegisterRecipe(new CraftBoneHook);
■■RegisterRecipe(new CraftBurlapStrips);
■■RegisterRecipe(new CraftLeatherCourierBag);
■■RegisterRecipe(new CraftCourierBag);
■■RegisterRecipe(new CraftImprovisedBag);
■■RegisterRecipe(new CraftImprovisedLeatherBag);
■■RegisterRecipe(new CraftImprovisedExplosive);
■■RegisterRecipe(new CraftLeatherSack);
■■RegisterRecipe(new DeCraftLeatherCourierBag);
■■RegisterRecipe(new DeCraftCourierBag);
■■RegisterRecipe(new DeCraftImprovisedBag);
■■RegisterRecipe(new DeCraftImprovisedLeatherBag);
■■RegisterRecipe(new DeCraftLeatherSack);
```

RegisterRecipe(new Splitt ongWoodenStick)

```
enum eRemoteDebugType
■NONE,
■DAMAGE_ONLY,
■ALL,
class PluginRemotePlayerDebugClient extends PluginBase
 ■const int MAX_SIMULTANIOUS_PLAYERS = 10;
■ref array<ref RemotePlayerStatDebug> m_PlayerDebugStats = new array<ref RemotePlayerStatDebug>
■ref map<PlayerBase, ref RemotePlayerDamageDebug> m_PlayerDebugDamage = new map<PlayerBase</p>
■ref Widget ■m_RootWidget[MAX_SIMULTANIOUS_PLAYERS];
■ref Widget ■m_RootWidgetDamage[MAX_SIMULTANIOUS_PLAYERS];
■ref TextListboxWidget m_StatListWidgets[MAX_SIMULTANIOUS_PLAYERS];
■ref TextListboxWidget m_DamageListWidgets[MAX_SIMULTANIOUS_PLAYERS];
■ref TextWidget m_DistanceWidget[MAX_SIMULTANIOUS_PLAYERS];
■eRemoteDebugType m_DebugType;
■override void OnInit()
■■#ifndef NO_GUI
■■InitWidgets();
■#endif
|
■override void OnUpdate(float delta_time)
■#ifndef NO GUI
■■if ( m_DebugType !=0 ) UpdateWidgetsStats();
■#endif
■}
■void InitWidgets()
\blacksquarefor (int i = 0; i < MAX_SIMULTANIOUS_PLAYERS; ++i)
■■■m_RootWidget[i] = GetGame().GetWorkspace().CreateWidgets("gui/layouts/debug/day_z_debug_rer
■■■m_RootWidgetDamage[i] = GetGame().GetWorkspace().CreateWidgets("gui/layouts/debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_debug/day_z_day_z_debug/day_z_day_z_debug/day_z_day_z_debug/day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_z_day_
■■■m_StatListWidgets[i] = TextListboxWidget.Cast(m_RootWidget[i].FindAnyWidget("TextListboxWidget
■■■m_DistanceWidget[i] = TextWidget.Cast(m_RootWidget[i].FindAnyWidget("TextWidget0"));
||
■void EnableWidgets(bool enable)
■for (int i = 0; i < MAX_SIMULTANIOUS_PLAYERS; ++i)
■■■m_RootWidget[i].Show(enable);
 ■■■m_RootWidgetDamage[i].Show(enable);
==}
|
■void UpdateWidgetsStats()
```

■■inti – ∩·

```
----- PluginRemotePlayerDebugServer.c - START ------
class PluginRemotePlayerDebugServer extends PluginBase
■ref set<PlayerBase> m_ClientList = new set<PlayerBase>;
■ref array<ref RemotePlayerStatDebug> m_PlayerDebugStats = new array<ref RemotePlayerStatDebug>
■ref map<PlayerBase, ref RemotePlayerDamageDebug> m_PlayerDebugDamage = new map<PlayerBase</p>
■float m AccuTime;
■const int INTERVAL = 1;
■eRemoteDebugType m_DebugType;
■bool m_Watching;
■override void OnUpdate(float delta_time)
■#ifdef SERVER
■■if ( m_ClientList.Count() != 0 )
■■■m_AccuTime += delta_time;
■■■if ( m_AccuTime > INTERVAL )
■■■■SendDebug();
---
■■}
■■#endif
■void SetWatching(bool enable)
■■m_Watching = enable;
■}
■bool GetWatching()
■■return m_Watching;
■void GatherPlayerInfo()
■■array<Man> players = new array<Man>;
■■GetGame().GetPlayers(players);
■■m_PlayerDebugStats.Clear();
■■foreach (Man playerMan : players)
■■■PlayerBase player = PlayerBase.Cast(playerMan);
■■■RemotePlayerStatDebug rpd = new RemotePlayerStatDebug(player);
■■m_PlayerDebugStats.Insert(rpd);
---
|
■void SendDebug()
#ifdef DIAG_DEVELOPER
■■GatherPlayerInfo();
■■array<ref ŘemotePlayerDamageDebug> player_damage = new array<ref ŘemotePlayerDamageDebug
```

```
// ----- PluginRepairing.c - START ------
class PluginRepairing extends PluginBase
■bool Repair(PlayerBase player, ItemBase repair_kit, Object item, float specialty_weight, string damage_a
■■switch (item.GetHealthLevel(damage_zone))
■■ case GameConstants.STATE_PRISTINE:
■■■ break:
■■ case GameConstants.STATE_RUINED:
■■■#ifdef DEVELOPER
■■■Debug.Log("repairing from GameConstants.STATE_RUINED");
■■■■CalculateHealth( player, repair_kit, item, specialty_weight, damage_zone, use_kit_qty );
■■■break;
■■ case GameConstants.STATE_WORN:
■■■if (CanRepairToPristine(player) || CanBeRepairedToPristine(item))
■■■■CalculateHealth( player, repair_kit, item, specialty_weight,/* GameConstants.DAMAGE_PRISTIN
}
■■■break;
■■default:
■■■■CalculateHealth( player, repair_kit, item, specialty_weight, damage_zone, use_kit_qty );
■■■■break;
■■}
■ return true;
■void CalculateHealth( PlayerBase player, ItemBase kit, Object item, float specialty_weight, string damag
■EntityAl entity;
■■Class.CastTo(entity,item);
■■if (entity != null)
----
■■entity.SetAllowDamage(true);
■■bool kit_has_quantity = kit.HasQuantity();
■■int health_levels_count = item.GetNumberOfHealthLevels(damage_zone);
■■float cur_kit_quantity = kit.GetQuantity();
■■float kit_repair_cost_per_level = GetKitRepairCost( kit, item );
■■float kit_repair_cost_adjusted; //used with specialty_weight, disconnected
■■float new_quantity;
■■int target_level = Math.Clamp(item.GetHealthLevel(damage_zone) - 1, 0, health_levels_count - 1);
■■float health_coef;
■■if (!CanRepairToPristine(player) && !CanBeRepairedToPristine(item))
■■■target_level = Math.Clamp(target_level, GameConstants.STATE_WORN, health_levels_count - 1);
■■health_coef = item.GetHealthLevelValue(target_level,damage_zone);
■■//handles kit depletion; TODO: move to separate method.
■■if (cur_kit_quantity > kit_repair_cost_per_level)
■■■kit_repair_cost_adjusted = kit_repair_cost_per_level; //TODO: removed speciality weight for now, it s
```

/ Control of the cont

```
class PluginSceneManager extends PluginBase
■static string■■SCENE_DEFAULT_NAME■■= "default";
■static string■■SCENE_SUFIX■■■= "scene";
■static PlayerBase■PLAYER;
■static PluginSceneManager instance;
■bool■■■m_RulerActivated;
■ref array<vector>■m_RulerPoints;
■ref array<Shape>■m_RulerLines;
■ref array<Shape>■m_RulerSpheres;
■static const int SCENE_EDITOR_CMD_REFRESH■= 0;
■ static const int SCENE_EDITOR_CMD_POPUP■ = 1; ■ static const int SCENE_EDITOR_CMD_SAVE■ = 2;
I//-----
■// >> Public scope
■// System Events
■void PluginSceneManager()
■■if (instance == NULL)
■■■instance = this;
—
■// System Events
■void ~PluginSceneManager()
■■if (instance == NULL)
■■■instance = this;
==}
■}
■static PluginSceneManager GetInstance()
■■return PluginSceneManager.Cast( GetPlugin( PluginSceneManager ) );
■// OnInit (System Event)
■override void OnInit()
■{
■ ModuleDeveloper PluginDeveloper.Cast( GetPlugin(PluginDeveloper) );
■■m_ModuleConfigScene■■■= PluginConfigScene.Cast( GetPlugin(PluginConfigScene) );
■■m_ModuleConfigDebugProfile■= PluginConfigDebugProfile.Cast( GetPlugin(PluginConfigDebugProfile
■■//Ruler
■■m_RulerActivated = false;
■■m_RulerPoints■= new array<vector>;
■■m_RulerLines■= new array<Shape>;
■■m_RulerSpheres■= new array<Shape>;
```

|

```
// ----- PluginSoundDebug.c - START ------
class PluginSoundDebug extends PluginBase
■override void OnInit()
■■m_TickTimer = new Timer();
■■m_TickTimer.Run(0.1, this, "OnGUITimer", NULL, true);
■override void OnUpdate(float delta_time)
■override void OnDestroy()
■m_TickTimer = NULL;
■}
■void Show()
■■m_TickTimer = new Timer();
■■m_TickTimer.Run(0.1, this, "OnGUITimer", NULL, true);
■void Hide()
■m_TickTimer = NULL;
■void OnGUITimer()
■■DbgUI.BeginCleanupScope();
■■DbgUI.Begin("Sound debug", 10, 10);
■■DbgUI.PushID_Str("SoundParams");
■■DbgUI.Text("SoundParams: ");
■■DbgUI.SameLine();
string soundsetName = "BearGrowl_SoundSet";
■■DbgŬI.InputText("", soundsetName, 200);
■■DbgUI.PopID();
■■DbgUI.PushID_Str("Offset");
■■DbgUI.Text("Offset pos: ");
■■vector posOffset = "0 0 0":
■Ifloat posVal;
■■DbgUI.SameLine();
■■DbgUI.PushID_Int(1);
■■■DbgUI.InputFloat("", posVal, 80);
■■DbgUI.PopID():
■■posOffset[0] = posVal;
■■DbgUI.SameLine();
■■DbgUI.PushID_Int(2);
■■■DbgUI.InputFloat("", posVal, 80);
■■DbgUI.PopID();
■■posOffset[1] = posVal;
```

```
//
// ----- PluginTransmissionAgents.c - START ------
enum InjectTypes
  PLAYER_TO_ITEM,
■ITEM_TO_PLAYER,
■PLAYER_AIR_PLAYER,
class PluginTransmissionAgents extends PluginBase
■static ref map<int, ref AgentBase> m_AgentList = new map<int, ref AgentBase>;
■ref map<int, string> m_ŠimpleAgentList = new map<int, string>;
■bool m_IsConstructed = false;
■void PluginTransmissionAgents()
■■//add new agents here
■■RegisterAgent(new InfluenzaAgent);
■■RegisterAgent(new CholeraAgent);
■■RegisterAgent(new SalmonellaAgent);
■■RegisterAgent(new BrainAgent);
■■RegisterAgent(new FoodPoisonAgent);
■■RegisterAgent(new ChemicalAgent);
■■RegisterAgent(new WoundAgent);
■■RegisterAgent(new NerveAgent);
■}
■void RegisterAgent(AgentBase agent)
■■m_AgentList.Insert(agent.GetAgentType(), agent);
■void ConstructSimpleAgentList()
■{
■■string agent_name;
■■int agent_type;
\blacksquarefor(int i = 0; i < m_AgentList.Count();i++)
----
■■■AgentBase agent = m_AgentList.GetElement(i);
■■■agent_name = agent.GetName();
■■agent_type = agent.GetAgentType();
■■m_SimpleAgentList.Insert(agent_type, agent_name);
——}
■}
■map<int, ref AgentBase> GetAgentList()
■{
■■return■m_AgentList;
■// this is a list which is easy to work with for displaying all agents and interacting with them, it doesn't serve
■map<int, string> GetSimpleAgentList()
■■if(!m_IsConstructed)
■■ConstructSimpleAgentList();
■■■m_lsConstructed■= true;
```

■Freturn m. Simple Agentl ist

```
----- PluginUniversalTemperatureSourceClient.c - START ------
class PluginUniversalTemperatureSourceClient extends PluginBase
■const int MAX_SIMULTANEOUS_UTS = 10;
■protected float m_UTSAverageTemperature;
■protected ref array<ref UTemperatureSourceDebug> m_UTemperatureSourceDebugs;
■protected ref Widget m_RootWidget[MAX_SIMULTANEOUS_UTS];
■protected TextListboxWidget m_StatListWidgets[MAX_SIMULTANEOUS_UTS];
■protected TextWidget m_HeaderWidget[MAX_SIMULTANEOUS_UTS];
■protected PlayerBase m_Player;
■void PluginUniversalTemperatureSourceClient()
■■m UTemperatureSourceDebugs = new array<ref UTemperatureSourceDebug>():
•}
moverride void OnInit()
■#ifndef NO_GUI
■■InitWidgets();
■#endif
■}
■override void OnUpdate(float delta_time)
■#ifndef NO GUI
■■if (!m_Player)
■■{
■■return;
==}
■■UpdateStatWidgets():
■■DrawDebugs();
■#endif
■}
■void InitWidgets()
\blacksquare for (int i = 0; i < MAX_SIMULTANEOUS_UTS; i++)
m_RootWidget[i] = GetGame().GetWorkspace().CreateWidgets("gui/layouts/debug/day_z_debug_rerm_StatListWidgets[i] = TextListboxWidget.Cast(m_RootWidget[i].FindAnyWidget("TextListboxWidget)
■■■m_HeaderWidget[i] = TextWidget.Cast(m_RootWidget[i].FindAnyWidget("TextWidget0"));
——}
|}
■void DrawDebugs()
■Iforeach (UTemperatureSourceDebug utsd : m_UTemperatureSourceDebugs)
 ■■float fullRange = utsd.GetValue(1).ToFloat();
■■■float maxRange ■= utsd.GetValue(2).ToFloat():
■■■float temp■■= utsd.GetValue(3).ToFloat();
```

■■■vector sphPos ■= utsd.GetValue(0).ToVector():

```
----- PluginUniversalTemperatureSourceServer.c - START ------
class PluginUniversalTemperatureSourceServer extends PluginBase
■const int INTERVAL■■■= 1;■■//! [s]
■const float LOOKUP_RADIUS■= 20;■■//! [m]
protected float m AccuTime:
■protected ref set<PlayerBase> m_ClientList;
protected ref array<ref UTemperatureSourceDebug> m_UTemperatureSourceDebugs;
■void PluginUniversalTemperatureSourceServer()
[
■■m ClientList ■■■■= new set<PlayerBase>():
■■m_UTemperatureSourceDebugs■= new array<ref UTemperatureSourceDebug>();
■override void OnUpdate(float delta_time)
■■if (m_ClientList.Count() > 0)
■■m_AccuTime += delta_time;
■■■if (m AccuTime > INTERVAL)
■■■■SendDebug();
|
■void GatherTemperatureSources(PlayerBase player)
■m_UTemperatureSourceDebugs.Clear();
■ if (!player)
■■{
TETreturn:
——}
■■vector playerPos■■■= player.GetPosition();
■■array<Object> nearestObjects■= new array<Object>;
■■GetGame().GetObjectsAtPosition(playerPos, LOOKUP_RADIUS, nearestObjects, null);
■■UTemperatureSource uts;
■■UTemperatureSourceDebug utsd;
\blacksquarefor (int i = 0; i < nearestObjects.Count(); i++)
---{
EntityAl ent = EntityAl.Cast(nearestObjects.Get(i));
■■■if (ent && ent.IsUniversalTemperatureSource() && ent != player)
■■■■uts = ent.GetUniversalTemperatureSource();
■■■■utsd = new UTemperatureSourceDebug();
■■■utsd.AddHeader(ent.GetType());
utsd.Add("position", uts.GetPosition().ToString(false));
utsd.Add("fullrange", uts.GetFullRange().ToString());
```

■■■utsd Add("mayrange" uts GetMayRange() ToString()):

```
// ----- PluginVariables.c - START ------
class PluginVariables extends PluginBase
■void PluginVariables()
■{
\blacksquarem_ld = 0;
■■m_Variables = new map<int, string>;
■■ ("variable name")
■ Register Variable ("varNote");
■ Register Variable ("varColor");
■void ~PluginVariables()
■void RegisterVariable(string name)
■■m_ld++;
■■m_Variables.Set(m_Id,name);//REWORK.V maybe have 2 maps, one with key
■}
■int m_ld;
■ref map<int, string> m_Variables;
■string GetName(int id)
■ return m_Variables.Get(id);
■int GetID(string name)
■ return m_Variables.GetKeyByValue(name);
// ----- PluginVariables.c - END ------//
// ----- Plum.c - START ------
class Plum : Edible_Base
■override bool CanBeCooked()
■■return true;
■override bool CanBeCookedOnStick()
```

```
// ----- PM73Rak.c - START ------
class PM73Rak_Base : Rifle_Base
};
// ----- PM73Rak.c - END ------
// ----- PMM.c - START -----
// -----
class PMM: Pistol_Base
// -----
// ----- PMM.c - END -----
// ----- PMTCreationAndCleanup.c - START -----
class OwnershipTestDummyClass
■// Simply exists
class PMTCreationAndCleanup: PMTF
■int m_EventTestManagerID;
■bool m_bTestEventsPassed = false;
■int m_OwnershipTestManagerID;
■// Ctor - Decides the tests to run
■void PMTCreationAndCleanup()
■■//AddInitTest("TestInvalidSize");
■■AddInitTest("TestCCSB");
■■AddInitTest("TestEvents");
■■AddInitTest("TestOwnership");
I//-----
■// Test invalid size VMEs
```

■TFRegult TestInvalidSize()

```
// ----- PMTF.c - START ------
class PMTF: TestFramework
■private static int PM_CREATED = 0;
■private ref map<int, ref ParticleManager> m_Managers = new map<int, ref ParticleManager>();
I//-----
■// Manager management
■int InsertManager(ParticleManager pm)
Assert(m_Managers.Insert(PM_CREATED, pm));
■■++PM_CREATED;
■■return PM_CREATED - 1;
■bool GetManager(int id, out ParticleManager pm)
■■return m_Managers.Find(id, pm);
I// Prints
■protected void PrintPMStats(notnull ParticleManager pm)
■■Debug.ParticleLog(string.Format(
■■■"Poolsize: %1 | Allocated: %2 | Virtual: %3 | Playing: %4", pm.GetPoolSize(), pm.GetAllocatedCount(
■■this, "PrintPMStats", pm);
■protected void PrintActiveStats()
■■Debug.ParticleLog(string.Format(
"Active ParticleManagers: %1 | Active ParticleSources: %2", ParticleManager.GetStaticActiveCount()
■■this, "PrintActiveStats");
■// Helpers
■protected ParticleManager CreatePMFixedBlocking(int size)
■■return new ParticleManager(new ParticleManagerSettings(size, ParticleManagerSettingsFlags.BLOCK
// ----- PMTF.c - END ------
```

```
// ----- PMTPlayback.c - START ------
class PMTPlayback: PMTF
■ref array<ParticleSource> m_ParticleSources = new array<ParticleSource>();
■// TestOnePlaying
■int m_OnePlayingManagerID;
■bool m_bOnePlayingTestSuccess = false;
■// TestOnePlayingStandAloneAutoDestroy
■int m_OnePlayingSAADPSID;
■bool m_bOnePlayingSAADEnded = false;
■// TestOnePlayingStandAlone
■int m_OnePlayingSAPSID;
■bool m_bOnePlayingSAEnded = false;
■// TestStop
■int m_StopPSID;
■float m_StopAccumulatedTime;
■static const float STOP_ACCUMULATED_TIME_STOP_CUTOFF = 2;
■static const float STOP_ACCUMULATED_TIME_PLAY_CUTOFF = 3;
■bool m_bStopWasStopped = false;
■bool m_bStopWasResumed = false;
■bool m bStopEnded = false:
I//-----
■// Ctor - Decides the tests to run
■void PMTPlayback()
■■//AddInitTest("TestOnePlaying");
■■//AddInitTest("TestOnePlayingStandAloneAutoDestroy");
■■//AddInitTest("TestOnePlayingStandAlone");
■■//AddInitTest("TestWiggleStress");
■■AddInitTest("TestStopping");
■}
■// Test one particle playing
■TFResult TestOnePlaying()
■■ParticleManager pm = CreatePMFixedBlocking(1);
■■m_OnePlayingManagerID = InsertManager(pm);
■■DayZPlayer player = GetGame().GetPlayer();
■■ParticleSource p = pm.CreateParticleById(ParticleList.EXPLOSION_LANDMINE, new ParticleProperties
■■p.GetEvents().Event_OnParticleEnd.Insert(PassOnePlaying);
■■AddFrameTest("CheckOnePlaying");
■■return BTFR(p.IsParticlePlaying());
```

■//-----
// Test one standalone particle playing which will auto destroy

```
// ----- PointLightBase.c - START ------
class PointLightBase extends ScriptedLightBase
■void PointLightBase()
■■SetLightType(LightSourceType.PointLight); // This function must be called in constructor of the light!
// ----- PointLightBase.c - END ------
// ----- Poisoning.c - START ------
class PoisoningMdfr: ModifierBase
■static const int AGENT_THRESHOLD_ACTIVATE = 150;
■static const int AGENT_THRESHOLD_DEACTIVATE = 0;
■static const int VOMIT_OCCURRENCES_PER_HOUR_MIN = 60;
■static const int VOMIT_OCCURRENCES_PER_HOUR_MAX = 120;
■static const int WATER_DRAIN_FROM_VOMIT = 70;
■static const int ENERGY_DRAIN_FROM_VOMIT = 55;
■override void Init()
■■m_TrackActivatedTime■= true;
■ ■ ■ m_IsPersistent■ ■ = true;
■■m ID ■■■■■ = eModifiers.MDF POISONING;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■}
■override string GetDebugText()
■■return ("Activate threshold: "+AGENT_THRESHOLD_ACTIVATE + "| " +"Deativate threshold: "+AGEN
■}
■override bool ActivateCondition(PlayerBase player)
■■if(player.GetSingleAgentCount(eAgents.FOOD_POISON) >= AGENT_THRESHOLD_ACTIVATE)
■■return true;
==}
■■else
■■return false;
——}
```

■override bool DeactivateCondition(PlayerBase player)

```
// ----- PokeHolesBarrel.c - START ------
class PokeHolesBarrel extends RecipeBase
■override void Init()
[
m_Name = "#STR_PokeHolesBarrel0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 2;//animation length in relative time units
 ■■m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;
■■m_MaxDamageIngredient[0] = 3;
■■m_MinQuantityIngredient[0] = -1;
■■m_MaxQuantityIngredient[0] = -1;
■■m_MinDamageIngredient[1] = -1;
■■m_MaxDamageIngredient[1] = 3;
\blacksquarem_MinQuantityIngredient[1] = -1;
■■m_MaxQuantityIngredient[1] = -1;
■■//ingredient 1
■■InsertIngredient(0,"Barrel_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;
■■m_IngredientAddQuantity[0] = 0;
■■m_IngredientSetHealth[0] = -1; // -1 = do nothing
\blacksquarem_IngredientDestroy[0] = 1;
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
 ■■//ingredient 2
■ InsertIngredient(1,"Sickle");//you can insert multiple ingredients this way
■ InsertIngredient(1,"KukriKnife");
■ InsertIngredient(1,"FangeKnife");
■ InsertIngredient(1,"Hacksaw");
Insertingredient(1, Hacksaw ),
Insertingredient(1,"KitchenKnife");
Insertingredient(1,"SteakKnife");
Insertingredient(1,"HayHook");
Insertingredient(1,"StoneKnife");
Insertingredient(1,"Cleaver");
Insertingredient(1,"CombatKnife");
Insertingredient(1,"HuntingKnife");
Insertingredient(1, HuntingKnire);
InsertIngredient(1,"Machete");
InsertIngredient(1,"CrudeMachete");
InsertIngredient(1,"OrientalMachete");
InsertIngredient(1,"Screwdriver");
InsertIngredient(1,"Crowbar");
InsertIngredient(1,"Pickaxe");
InsertIngredient(1,"WoodAxe");
Insertingredient(1, "WoodAxe");
Insertingredient(1,"Hatchet");
Insertingredient(1,"FirefighterAxe");
Insertingredient(1,"Sword");
Insertingredient(1,"AK_Bayonet");
■InsertIngredient(1,"M9A1_Bayonet");
■■InsertIngredient(1,"Mosin_Bayonet");
■■InsertIngredient(1,"SKS_Bayonet");
```

■■m Ingredient∆ddHealth[1] - -100:

```
// ----- PoliceCap.c - START -----
class PoliceCap extends Clothing
// -----
// ----- PoliceCap.c - END ------
// -----
// ----- PoliceJacket.c - START ------
class PoliceJacket extends Clothing
■override void SetActions()
■ super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- PoliceJacket.c - END ------
// ----- PoliceJacketOrel.c - START ------
class PoliceJacketOrel extends Clothing
■override void SetActions()
■super.SetActions();
■■AddAction(ActionWringClothes);
■}
};
// ----- PoliceJacketOrel.c - END ------
// -----
// ----- PolicePants.c - START ------
class PolicePants extends Clothing
```

```
// ----- PolicePantsOrel.c - START -----
class PolicePantsOrel extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- PolicePantsOrel.c - END ------
// -----
// ----- PoliceVest.c - START ------
// -----
class PoliceVest extends Clothing {};
// -----
// ----- PoliceVest.c - END -----
// -----
// ----- PortableGasLamp.c - START ------
class PortableGasLamp extends ItemBase
■PortableGasLampLight■m_Light;
■private const string GAS_LIGHT_MATERIAL_ON ■■= "dz\\gear\\cooking\\data\\GasLightOn.rvmat";
■private const string GAS_LIGHT_MATERIAL_OFF ■= "dz\\data\\data\\default.rvmat";
■//sound
■const string SOUND_BURNING ■■= "portablegaslamp_burn_SoundSet";
■const string SOUND_TURN_ON■■= "portablegaslamp_turn_on_SoundSet";
■const string SOUND_TURN_OFF■= "portablegaslamp_turn_off_SoundSet";
protected EffectSound m_SoundBurningLoop;
■protected EffectSound m_SoundTurnOn;
■protected EffectSound m_SoundTurnOff;
■//--- POWER EVENTS
■override void OnSwitchOn()
■■super.OnSwitchOn();
■■//sound (client only)
■■SoundTurnOn();
```

■}

```
// ----- PortableGasLampLight.c - START ------
class PortableGasLampLight extends PointLightBase
 ■static float m_TorchRadius = 15;
■static float m_TorchBrightness = 5.0;
■void PortableGasLampLight()
■■SetVisibleDuringDaylight(false);
 ■■SetRadiusTo( m_TorchRadius );
 ■■SetBrightnessTo(m_TorchBrightness);
■■SetCastShadow(true);
\blacksquareFadeIn(0.5);
■■SetFadeOutTime(0.1);
■ SetDiffuseColor(1.0, 0.7, 0.5);
■ SetAmbientColor(1.0, 0.7, 0.5);
■■SetFlickerAmplitude(0.3);
■■SetFlickerSpeed(0.75);
■■SetDancingShadowsMovementSpeed(0.005);
■■SetDancingShadowsAmplitude(0.003);
■}
■/*override void OnFrameLightSource(IEntity other, float timeSlice)
■}*/
// ----- PortableGasLampLight.c - END ------
// ----- PortableGasStove.c - START ------
class PortableGasStove extends ItemBase
 ■StoveLight■m_Light;
■protected const string FLAME_BUTANE_ON ■■■= "dz\\gear\\cooking\\data\\flame_butane_ca.paa";
■protected const string FLAME_BUTANE_OFF ■■= "";
■typename ATTACHMENT_COOKING_POT ■■■■ = Pot;
■typename ATTACHMENT_FRYING_PAN ■■■■= FryingPan;
■typename ATTACHMENT_CAULDRON■ ■■■■ = Cauldron;
■//cooking
■ protected const float PARAM_COOKING_TEMP_THRESHOLD ■ 100; ■ 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 100; | 10
■protected const float PARAM_COOKING_TIME_INC_COEF■■= 0.5;■■//cooking time increase coefic
■private ■■float m_TimeFactor;
■ref Cooking m_CookingProcess;
```

■ItemBase m. CookingEquipment

```
---- Pot.c - START -----
class Pot extends Bottle_Base
■void Pot()
■void ~Pot()
■override bool IsContainer()
■ return true;
■override string GetPouringSoundset()
■ return "emptyVessle_Pot_SoundSet";
■■override string GetEmptyingLoopSoundsetHard()
■ return "pour_HardGround_Pot_SoundSet";
■override string GetEmptyingLoopSoundsetSoft()
■ return "pour_SoftGround_Pot_SoundSet";
■override string GetEmptyingLoopSoundsetWater()
■ return "pour_Water_Pot_SoundSet";
■}
■override string GetEmptyingEndSoundsetHard()
■ return "pour_End_HardGround_Pot_SoundSet";
■override string GetEmptyingEndSoundsetSoft()
■ return "pour_End_SoftGround_Pot_SoundSet";
■override string GetEmptyingEndSoundsetWater()
■■return "pour_End_Water_Pot_SoundSet";
■override bool CanPutInCargo( EntityAl parent )
■■if (!super.CanPutInCargo(parent))
 I■■return false:
```

■■if (narent && IsCargoEycention4y3(narent))

```
// ----- Potato.c - START -----
class Potato: Edible_Base
■override bool CanBeCooked()
■return true;
■override bool CanBeCookedOnStick()
■ return true;
}
■override bool IsFruit()
■ return true;
■override bool CanDecay()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatFruit);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
|
■override void EEOnCECreate()
\blacksquareint rand = Math.RandomInt(0,10);
■if (rand > 6)
■■ChangeFoodStage(FoodStageType.ROTTEN);
■■■SetHealth("", "", GetMaxHealth()*0.1);
——}
■■else if (rand > 2)
■■ ChangeFoodStage(FoodStageType.DRIED);
SetHealth("", "", GetMaxHealth()*0.4);
——}
■}
// ----- Potato.c - END -----
```

```
// ----- PourLiquid.c - START ------
class PourLiquid extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_PourLiquid0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
m Specialty = -0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 0;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = 0;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Pot");//you can insert multiple ingredients this way
■■InsertIngredient(0,"CanisterGasoline");//you can insert multiple ingredients this way
■■InsertIngredient(0,"Canteen");//you can insert multiple ingredients this way
■■InsertIngredient(0,"WaterBottle");//you can insert multiple ingredients this way
■■InsertIngredient(0,"Vodka");//you can insert multiple ingredients this way
■■InsertIngredient(0,"WaterPouch_ColorBase");//you can insert multiple ingredients this way
■■InsertIngredient(0,"Barrel_ColorBase");//you can insert multiple ingredients this way
■■m IngredientAddHealth[0] = 0;// 0 = do nothing
■■m_IngredientSetHealth[0] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Pot");//you can insert multiple ingredients this way
■InsertIngredient(1, "Pot ),//you can insert multiple ingredients this way
■InsertIngredient(1, "CanisterGasoline");//you can insert multiple ingredients this way
■InsertIngredient(1, "Canteen");//you can insert multiple ingredients this way
■InsertIngredient(1, "WaterBottle");//you can insert multiple ingredients this way
■InsertIngredient(1, "Vodka");//you can insert multiple ingredients this way
■■InsertIngredient(1,"Barrel_ColorBase");//you can insert multiple ingredients this way
IngredientAddHealth[1] = 0:// 0 = do nothing
\blacksquarem_IngredientSetHealth[1] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[1] = 0;// 0 = do nothing
■ Ingredient Destroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
```

//result1

■■//∆ddResult(""\·//add results here

```
// ----- PowderedMilk.c - START -----
class PowderedMilk: Edible_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatBig);
};
// ----- PowderedMilk.c - END ------//
// ----- PoweredOptic_Base.c - START ------
class PoweredOptic_Base extends ItemOptics
■protected PlayerBase ■■■■m_Player;
■void SetPlayer( PlayerBase player )
■ m_Player = player;
■PlayerBase GetPlayer()
■ ireturn m_Player;
// ----- PoweredOptic_Base.c - END -----
// -----
// ----- PowerGenerator.c - START -----
class PowerGenerator extends ItemBase
■float■■■■■m_Fuel;
■private static float■■m_FuelTankCapacity; // Capacity in ml.
■private static float■■m_FuelToEnergyRatio; // Conversion ratio of 1 ml of fuel to X Energy
■private int■■■■■m_FuelPercentage;
```

■static const string■■■START_SOLIND = "nowerGeneratorTurnOn_SoundSet":

```
// ----- PP19.c - START -----
/**@class■PP19_Base
 ©brief■basic PP19 submachine gun
class PP19_Base : RifleBoltFree_Base
■void PP19_Base()
■override RecoilBase SpawnRecoilObject()
■ return new PP19Recoil(this);
■//some command is different for this weapon
■override int GetWeaponSpecificCommand(int weaponAction ,int subCommand)
■if (weaponAction == WeaponActions.CHAMBERING)
■■switch (subCommand)
■■■ case WeaponActionChamberingTypes.CHAMBERING_ONEBULLET_UNIQUE_CLOSED:
■■■■return WeaponActionChamberingTypes.CHAMBERING_ONEBULLET_OPENED;
■■■default:
■■■■return subCommand;
■■return subCommand;
■}
■override bool CanEnterIronsights()
■■ItemOptics optic = GetAttachedOptics();
■■if (optic && PSO1Optic.Cast(optic) || PSO11Optic.Cast(optic) || KazuarOptic.Cast(optic))
■■return true:
■■return super.CanEnterIronsights();
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
GameInventory inventory = GetInventory();

    inventory ("PistolSuppressor");
    inventory.CreateInInventory( "PP19_Bttstck");
    inventory.CreateInInventory( "KobraOptic");
    inventory.CreateInInventory( "Battery9V");

■■SpawnAttachedMagazine("Mag_PP19_64Rnd");
■}
};
// ----- PP19.c - END -----
```

```
// ----- PP19Recoil.c - START -----
class PP19Recoil: RecoilBase
■override void Init()
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncM
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 1;
■■m_MouseOffsetRangeMin = 60;//in degrees min
■■m_MouseOffsetRangeMax = 110;//in degrees max
■■m_MouseOffsetDistance = 0.6;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.5;//[0..1] a time it takes to move the mouse the required distance rela
■■m_CamOffsetDistance = 0.0075;
■■m_CamOffsetRelativeTime = 1;
}
// -----
// ----- PP19Recoil.c - END -----
// ----- PPEChromAber.c - START ------
//!ChromAber - PostProcessEffectType.ChromAber
class PPEChromAber: PPEClassBase
■static const int PARAM_POWERX = 0;
■static const int PARAM_POWERY = 1;
■static const int L_0_INTRO = 100;
■static const int L_1_INTRO = 100;
■override int GetPostProcessEffectID()
■■return PostProcessEffectType.ChromAber;
■override string GetDefaultMaterialPath()
■ return "Graphics/Materials/postprocess/chromaber";
```

```
// ----- PPEColorGrading.c - START ------
//!ColorGrading - PostProcessEffectType.ColorGrading
//TODO
class PPEColorGrading: PPEClassBase
| //static const int PARAM_COLORTABLE = 0;
■override int GetPostProcessEffectID()
■ return PostProcessEffectType.ColorGrading;
■override string GetDefaultMaterialPath()
■ Teturn "Graphics/Materials/postprocess/colorgrading";
■override void RegisterMaterialParameters()
■■//RegisterParameterTexture(PARAM_COLORTABLE,"ColorTable","Graphics/Textures/postprocess/co
// ----- PPEColorGrading.c - END -----
// ----- PPEColors.c - START ------
//!Colors - PostProcessEffectType.Colors
//TODO - 'ColorsEffect' type may be used differently in c++, no emat linked to it? Investigate.
class PPEColors: PPEClassBase
■static const int PARAM_BRIGHTNESS = 0;
■static const int PARAM_CONTRAST = 1;
■static const int PARAM_OFFSET = 2;
■static const int PARAM_OVERLAYFACTOR = 3;
■static const int PARAM_OVERLAYCOLOR = 4;
■static const int PARAM_SATURATION = 5;
■static const int PARAM_COLORIZATIONCOLOR = 6;
■static const int PARAM_DESATURATIONWEIGHTS = 7;
■override int GetPostProcessEffectID()
■■return PostProcessEffectType.Colors;
■override string GetDefaultMaterialPath()
■ Teturn "Graphics/Materials/postprocess/colors";
■override void RegisterMaterialParameters()
```

```
// ----- PPEConstants.c - START ------
//! PPE type priorities, C++ based. DO NOT CHANGE ORDER! Used only when calling 'SetCameraPostPi
enum PostProcessPrioritiesCamera
■PPP_SSAO,
■PPP_CLOUDS,
■PPP DOF
■PPP_ROTBLUR
■PPP_GODRAYS,
■PPP_RAIN.
■PPP_RADIALBLUR,
■PPP_CHROMABER,
■PPP_WETDISTORT,
■PPP_DYNBLUR
■PPP_UNDERWATER,
■PPP_DOF_BOKEH,
■PPP_COLORGRADE,
■PPP_GLOW,
■PPP_FILMGRAIN,
■PPP_FILMGRAIN_NV,
■PPP_FXAA,
■PPP_SMAA,
■PPP_GAUSS_FILTER,
■PPP_MEDIAN, //unused?
■//PPP_SSR
enum PPERequesterCategory
■NONE = 0:
■GAMEPLÁY_EFFECTS = 2;
■MENU_EFFECTS = 4;
\blacksquareMISC_EFFECTS = 8;
■ALL = 14; //GAMEPLAY_EFFECTS|MENU_EFFECTS|MISC_EFFECTS
};
brief IDs of custom PPE classes
/note Currently used for various native exceptions that used to be handled outside of script-side postproce
/note Can be used for custom functionality as well, C++ permitting.
enum PPEExceptions
■NONE = -1,
■EXPOSURE = 50,
■DOF
■EYEACCOM.
■NVLIGHTPARAMS.
//! PP operators, specify operation between subsequent layers
enum PPOperators
■LOWEST, //only lowest value gets used. Note - if first request, it is compared against default values!
■HIGHEST, //only highest value gets used. Note - if first request, it is compared against default values!
■ADD, //LINEAR addition
■ADD_RELATIVE, //LINEAR relative addition (relative to diff between current and max, where applicable.
■SUBSTRACT, //LINEAR substraction
```

■SUBSTRACT_RELATIVE_//LINEAR_relative substraction

```
// ----- PPEDepthOfField.c - START ------
//!DepthOfField - PostProcessEffectType.DepthOfField
//TODO - may be just a dummy, since CGame. Override DOF function handles script overrides?
class PPEDepthOfField: PPEClassBase
■static const int PARAM_DOFLQ = 0;
■static const int PARAM FOCALDISTANCE = 1;
■static const int PARAM_HYPERFOCAL = 2;
■static const int PARAM_FOCALOFFSET = 3;
■static const int PARAM_BLURFACTOR = 4;
■static const int PARAM_SIMPLEDOF = 5;
■static const int PARAM_SIMPLEHFNEAR = 6;
■static const int PARAM_SIMPLEDOFSIZE = 7;
■static const int PARAM_SIMPLEDOFGAUSS = 8;
■override int GetPostProcessEffectID()
■■return PostProcessEffectType.DepthOfField;
■}
■override string GetDefaultMaterialPath()
string ret = "Graphics/Materials/postprocess/depthoffieldTest2";
■■GameOptions m_Options = new GameOptions();
■■ListOptionsAccess loa = ListOptionsAccess.Cast( m_Options.GetOptionByType( AT_POSTPROCESS
■■switch (loa.GetIndex())
----
■■ case POSTPROCESS_OPTION_VALUE_LOW:
■■■ret = "Graphics/Materials/postprocess/hbao_low";
■■break;
■■■case POSTPROCESS_OPTION_VALUE_MEDIUM:
■■■ret = "Graphics/Materials/postprocess/hbao_medium";
■■break:
■■■case POSTPROCESS_OPTION_VALUE_HIGH:
■■■ret = "Graphics/Materials/postprocess/hbao_high";
■■break:
■■■case POSTPROCESS_OPTION_VALUE_HIGHEST:
■■■ret = "Graphics/Materials/postprocess/hbao_highest";
■■break;
==*/
■ return ret;
■}
■override void RegisterMaterialParameters()
■■RegisterParameterScalarBool(PARAM_DOFLQ,"DOFLowQuality",false);
■■RegisterParameterScalarFloat(PARAM_FOCALDISTANCE, "FocalDistance", 0.1, 0.0, 1.0);
■■RegisterParameterScalarFloat(PARAM_HYPERFOCAL,"HyperFocal",0.85,0.1,100.0);
■■RegisterParameterScalarFloat(PARAM_FOCALOFFSET,"FocalOffset",0.0,0.0,1.0);
■■RegisterParameterScalarFloat(PARAM_BLURFACTOR, "BlurFactor", 4.0,0.0,10.0); ■■RegisterParameterScalarBool(PARAM_SIMPLEDOF, "SimpleDOF", false);
RegisterParameterScalarFloat(PARAM_SIMPLEHFNEAR, "SimpleHyperFocalNear", 0.7, 0.1, 100.0);
```

```
// ----- PPEDOF.c - START ------
//Native exceptions - legacy methods for direct access to specific postprocesses. Each one is evaluated an
//!DOF postprocess, does not directly use materials
class PPEDOF: PPEClassBase
■//g_Game.OverrideDOF(bool enable, float focusDistance, float focusLength, float focusLengthNear, float
■static const int PARAM_ENABLE = 0;
■static const int PARAM_FOCUS_DIST = 1;
■static const int PARAM_FOCUS_LEN = 2;
■static const int PARAM_FOCUS_LEN_NEAR = 3;
■static const int PARAM_BLUR = 4;
■static const int PARAM_FOCUS_DEPTH_OFFSET = 5;
■static const int L_0_ADS = 100;
■static const int L_1_ADS = 100;
■static const int L_2_ADS = 100;
■static const int L_3_ADS = 100;

■static const int L_4_ADS = 100;
■static const int L_5_ADS = 100;
■override int GetPostProcessEffectID()
■ return PPEExceptions.DOF;
■}
override void RegisterMaterialParameters()
■■ //no known max. 1000 used as max
■■RegisterParameterScalarBool(PARAM_ENABLE,"Enable",false);
■■RegisterParameterScalarFloat(PARAM_FOCUS_DIST,"FocusDistance",2.0,0.0,1000.0); //2.0f used in
RegisterParameterScalarFloat(PARAM_FOCUS_LEN,"FocusLength",-1.0,-1.0,1000.0); //-1.0f used as RegisterParameterScalarFloat(PARAM_FOCUS_LEN_NEAR,"FocusLengthNear",-1.0,-1.0,1000.0); //-
■■RegisterParameterScalarFloat(PARAM_BLUR, "Blur", 1.0,0.0,1000.0); //1. Of used in code with null came
■RegisterParameterScalarFloat(PARAM_FOCUS_DEPTH_OFFSET, "FocusDepthOffset", 0.0, 0.0, 1000.0
■override void ApplyValueChanges()
■■if (m_UpdatedParameters.Count() > 0)
■■■SetFinalParameterValue(-1); //unique handling
■■m_UpdatedParameters.Clear();
■}
■//! Overriden to handle the specific exception
■override void SetFinalParameterValue(int parameter_idx)
Param enabled_par = GetParameterCommandData(PARAM_ENABLE).GetCurrentValues();
■■bool is_enabled = Param1<bool>.Cast(enabled_par).param1;
■If (is_enabled)
```

TEN array<float> array_values = {-1.0};

```
....// ----- PPEDynamicBlur.c - START ------
//!DynamicBlur - PostProcessEffectType.DynamicBlur
class PPEDynamicBlur: PPEClassBase
■static const int PARAM_BLURRINESS = 0;
■override int GetPostProcessEffectID()
■■return PostProcessEffectType.DynamicBlur;
■override string GetDefaultMaterialPath()
■ Teturn "Graphics/Materials/postprocess/dynamicblur";
■override void RegisterMaterialParameters()
■■RegisterParameterScalarFloat(PARAM_BLURRINESS,"Blurriness",20,0,30);
// ----- PPEDynamicBlur.c - END ------//
// ----- PPEExposureNative.c - START -------
//Native exceptions - legacy methods for direct access to specific postprocesses. Each one is evaluated ar
//!EV postprocess, does not directly use materials
class PPEExposureNative: PPEClassBase
■//g_Game.SetEVValue
■static const int PARAM_INTENSITY = 0;
■static const int L_0_NVG_OPTIC = 100;
■static const int L_0_NVG_GOGGLES = 200;
■static const int L_0_NVG_OFF = 300;
■static const int L_0_FLASHBANG = 400;
■static const int L_0_BURLAP = 500;
■static const int L_0_DEATH = 1000;
■override int GetPostProcessEffectID()
■ return PPEExceptions.EXPOSURE;
■override void RegisterMaterialParameters()
■■RegisterParameterScalarFloat(PARAM_INTENSITY,"Intensity",0.0,-100.0,100.0); //no real range, it see
```

```
// ----- PPEEyeAccomodationNative.c - START ------
//Native exceptions - legacy methods for direct access to specific postprocesses. Each one is evaluated ar
//!Eye Accomodation postprocess, does not directly use materials
class PPEEyeAccomodationNative: PPEClassBase
■//g_Game.GetWorld().SetEyeAccom
■static const int PARAM_INTENSITY = 0;
■static const int L_0_UNDERGROUND = 100;
■static const int L_0_NVG_GENERIC = 300;

■/*static const int L_0_NVG_OPTIC = 400;
■static const int L_0_NVG_GOGGLES = 401;
■static const int L_0_NVG_OFF = 402;*/
■static const int L_0_BURLAP = 500;
■override int GetPostProcessEffectID()
■■return PPEExceptions.EYEACCOM;
■override void RegisterMaterialParameters()
■■RegisterParameterScalarFloat(PARAM_INTENSITY,"Intensity",1.0,0.0,1000.0); //no known max. 1000
■//! Overriden to handle the specific exception
■override void SetFinalParameterValue(int parameter_idx)
■Param values = GetParameterCommandData(parameter_idx).GetCurrentValues();
■■float value_var_float = Param1<float>.Cast(values).param1;
■■g_Game.GetWorld().SetEyeAccom(value_var_float);
■■//DbgPrnt("PPEDebug | SetFinalParameterValue | PPEEyeAccomodationNative | float val: " + value_va
// ----- PPEEyeAccomodationNative.c - END -------// ------
// -----
// ----- PPEffects.c - START -----
//! Deprecated; 'PPEManager' used instead
class PPEffects
■// COLORIZE IDs
■static const int COLORIZE_NV = 100;
■//CONSTANTS
■static const float COLOR_SHOCK = 0.1;//shock color value (relative) //todo
```

```
// ----- PPEFilmGrain.c - START ------
//!FilmGrain - PostProcessEffectType.FilmGrain
■Be advised, for this to take any effect, 'g_Game.NightVissionLightParams' needs to have non-zero 'noise
■/note set by 'PPELightIntensityParamsNative.PARAM_NOISE_MULT' currently
class PPEFilmGrain: PPEClassBase
■static const int PARAM_INTENSITY = 0;
■static const int PARAM_SHARPNESS = 1;
■static const int PARAM_GRAINSIZE = 2;
■static const int PARAM_INTENSITYX0 = 3;
■static const int PARAM_INTENSITYX1 = 4;
■static const int PARAM_MONOCHROMATIC = 5;
■static const int PARAM_SIMPLE = 6;
■static const int PARAM_DISTORT = 7;
■static const int PARAM_FREQUENCY = 8;
■//static const int PARAM_NOISEMAP = 9;
■static const int L_1_NVG = 100;
■static const int L_1_TOXIC_TINT = 200;
■static const int L_2_NVG = 100;
■static const int L_2_TOXIC_TINT = 200;
■override int GetPostProcessEffectID()
■■return PostProcessEffectType.FilmGrain;
■override string GetDefaultMaterialPath()
■■return "Graphics/Materials/postprocess/filmgrainNV"; //TODO - differentiate between filmgrainNV?
■override void RegisterMaterialParameters()
■■RegisterParameterScalarFloat(PARAM_INTENSITY,"Intensity",0.0,0.0,1.0);
RegisterParameterScalarFloat(PARAM_SHARPNESS,"Sharpness",2.35,0.0,20.0);
RegisterParameterScalarFloat(PARAM_GRAINSIZE,"GrainSize",2.75,1.0,9.0);
■■RegisterParameterScalarFloat(PARAM_INTENSITYX0,"IntensityX0",0.0,0.0,1.0);
■■RegisterParameterScalarFloat(PARAM_INTENSITYX1,"IntensityX1",0.0,0.0,1.0);
■■RegisterParameterScalarBool(PARAM_MONOCHROMATIC, "Monochromatic", true);
■■RegisterParameterScalarBool(PARAM_SIMPLE, "Simple", false);
■■RegisterParameterScalarBool(PARAM_DISTORT,"Distort",true);
■■RegisterParameterScalarFloat(PARAM_FREQUENCY,"Frequency",20.0,1.0,1000.0);
■■//RegisterParameterTexture(PARAM_NOISEMAP,"NoiseMap","{0B1C7AEDC4645C8A}System/texture
// ----- PPEFilmGrain.c - END -----
```

```
// ----- PPEFXAA.c - START ------
//!FXAA - PostProcessEffectType.FXAA
class PPEFXAA: PPEClassBase
■static const int PARAM_PRESET = 0;
■override int GetPostProcessEffectID()
■■return PostProcessEffectType.FXAA;
■override string GetDefaultMaterialPath()
■■return "Graphics/Materials/postprocess/fxaa";
■override void RegisterMaterialParameters()
■■RegisterParameterScalarInt(PARAM_PRESET, "Preset", 0, 0, 5);
// ----- PPEFXAA.c - END ------
// ----- PPEGaussFilter.c - START ------
//!GaussFilter - PostProcessEffectType.GaussFilter
class PPEGaussFilter: PPEClassBase
■static const int PARAM_INTENSITY = 0;
■static const int L_0_ADS = 100;
■static const int L_0_SHOCK = 200;
■static const int L_0_FEVER = 300;
■static const int L_0_FLASHBANG = 400;
\blacksquarestatic const int L_0_INV = 500;
■static const int L_0_MENU = 600;
■static const int L_0_CONTROLS = 700;
■static const int L_0_TUTORIALS = 800;
■static const int L_0_SERVER_BROWSER = 900;
■static const int L_0_DISCONNECT = 1000;
■override int GetPostProcessEffectID()
■ return PostProcessEffectType.GaussFilter;
■override string GetDefaultMaterialPath()
■■return "Graphics/Materials/postprocess/gauss";
```

```
// ----- PPEGlow.c - START -----
/*enum PPEGlow
■PARAM_VISIBLEPERCENT = 0,
//!Glow - PostProcessEffectType.Glow
class PPEGlow: PPEClassBase
■static const int PARAM_VISIBLEPERCENT = 0;
■static const int PARAM_TARGETBRIGHTNESS = 1;
■static const int PARAM_SPEEDDARKTOBRIGHT = 2;
■static const int PARAM_SPEEDBRIGHTTODARK = 3;
■static const int PARAM TONEMAPPING = 4:
■static const int PARAM_HDR = 5;
■static const int PARAM_FILMICSHOULDERSTRENGTH = 6;
■static const int PARAM_FILMICLINEARSTRENGTH = 7;
■static const int PARAM FILMICLINEARANGLE = 8:
■static const int PARAM_FILMICTOESTRENGTH = 9;
■static const int PARAM_FILMICTOENUMERATOR = 10;
■static const int PARAM_FILMICTOEDENUMERATOR = 11;
■static const int PARAM_FILMICEXPOSUREBIAS = 12;
■static const int PARAM_FILMICWHITEPOINT = 13;
■static const int PARAM_BLOOMTHRESHOLD = 14;
■static const int PARAM BLOOMSTEEPNESS = 15:
■static const int PARAM_BLOOMINTENSITY = 16;
■static const int PARAM_BRIGHTNESS = 17;
■static const int PARAM_CONTRAST = 18;
■static const int PARAM OFFSET = 19:
■static const int PARAM_OVERLAYFACTOR = 20;
■static const int PARAM_OVERLAYCOLOR = 21;
■static const int PARAM_SATURATION = 22;
■static const int PARAM_COLORIZATIONCOLOR = 23;
■static const int PARAM_DESATURATIONWEIGHTS = 24;
■static const int PARAM_VIGNETTE = 25;
■static const int PARAM VIGNETTECOLOR = 26:
■static const int PARAM_LENSDISTORT = 27;
■static const int PARAM_MAXCHROMABBERATION = 28;
■static const int PARAM_LENSCENTERX = 29;
■static const int PARAM LENSCENTERY = 30:
■//layer info
■static const int L_20_HIT = 100;
■static const int L_20_FLASHBANG = 300;
■static const int L_20_SHOCK = 500;
■static const int L 21 SHOCK = 100:
■static const int L_21_HIT = 300;
■static const int L_21_FLASHBANG = 500;
■static const int L 22 BLOODLOSS = 100:
■static const int L_23_GLASSES = 100;
■static const int L_23_TOXIC_TINT = 200;
■static const int L_23_NVG = 600;
■static const int L_25_MENU = 100;
■static const int L_25_TUNNEL = 300;
```

■static const int I 25 SHOCK - 500:

```
...// ----- PPEGodRays.c - START ------
//!GodRays - PostProcessEffectType.GodRays
class PPÉGodRays: PPEClassBase
■static const int PARAM_INTENSITY = 0;
■static const int PARAM_SUNVISIBLE = 1:
■static const int PARAM_OVERBURNINTENSITY = 2;
■static const int PARAM_OVERBURNSTART = 3;
■static const int PARAM_OVERBURNEND = 4;
■//static const int PARAM_SUNMASKMAT = 5; //Warning, not to be used until DECLARE_RESOURCE_N
■static const int L_0_GLASSES = 100;
■override int GetPostProcessEffectID()
■■return PostProcessEffectType.GodRays;
■override string GetDefaultMaterialPath()
■■return "Graphics/Materials/postprocess/godrayssun";
■override void RegisterMaterialParameters()
■■RegisterParameterScalarFloat(PARAM_INTENSITY,"Intensity",0.8,0,1);
■■RegisterParameterScalarFloat(PARAM_SUNVISIBLE,"SunVisible",1.0,0,1);
■■RegisterParameterScalarFloat(PARAM_OVERBURNINTENSITY,"OverBurnIntensity",0.25,0,1);
■■RegisterParameterScalarFloat(PARAM_OVERBURNSTART,"OverBurnStart",0.025,0,1);
■■RegisterParameterScalarFloat(PARAM_OVERBURNEND,"OverBurnEnd",0.175,0,1);
■■//TODO
■■//SunMaskMat - DECLARE_RESOURCE_NAME
■}
// -----
// ----- PPEGodRays.c - END -----
// -----
// ----- PPEHBAO.c - START ------
//!HBAO - PostProcessEffectType.HBAO
//TODO - may be just a dummy, since SSAO already uses the HBAO materials?
class PPEHBAO: PPEClassBase
■static const int PARAM_RADIUSMETERS = 0;
■static const int PARAM_INTENSITY = 1;
■static const int PARAM_BLURSHARPNESS = 2;
■static const int PARAM_NDOTVBIAS = 3;
■static const int PARAM_SMALLSCALEAÓ = 4;
■static const int PARAM_LARGESCALEAO = 5;
■static const int PARAM_NUMDIRECTIONS = 6;
```

■static const int PARAM NIIMSAMPLES - 7.

```
// ----- PPELightIntensityParamsNative.c - START ------
//Native exceptions - legacy methods for direct access to specific postprocesses. Each one is evaluated ar
//!g_Game.NightVissionLightParams, does not directly use materials. Controls light multiplication and filmg
class PPELightIntensityParamsNative: PPEClassBase
■//g_Game.SetEVValue
■static const int PARAM_LIGHT_MULT = 0;
■static const int PARAM_NOISE_MULT = 1;
■static const int L_0_NVG = 100;
■static const int L_0_TOXIC_TINT = 200;
■static const int L_1_NVG = 100;
■static const int L_1_TOXIC_TINT = 200;
■override int GetPostProcessEffectID()
■■return PPEExceptions.NVLIGHTPARAMS;
■override void RegisterMaterialParameters()
■■RegisterParameterScalarFloat(PARAM_LIGHT_MULT,"lightIntensityMul",1.0,0.0,50.0); //some reasona
■■RegisterParameterScalarFloat(PARAM_NOISE_MULT,"noiseIntensity",0.0,0.0,50.0); //some reasonab
■override void ApplyValueChanges()
■if (m_UpdatedParameters.Count() > 0)
■■■SetFinalParameterValue(-1); //unique handling
■■m_UpdatedParameters.Clear();
■//! Overriden to handle the specific exception
■override void SetFinalParameterValue(int parameter_idx)
■■array<float> array_values = new array<float>;
TERMITTER for (int i = 0; i < PARAM_NOISE_MULT + 1; i++)
■■■Param values = GetParameterCommandData(i).GetCurrentValues();
■■■float value_var_float = Param1<float>.Cast(values).param1;
■■array_values.Insert(value_var_float);
——}
■■g_Game.NightVissionLightParams(array_values.Get(PARAM_LIGHT_MULT),array_values.Get(PARA
■■//DbgPrnt("PPEDebug | SetFinalParameterValue | PPELightIntensityParamsNative | float val: " + value
```

// ----- PPELightIntensityParamsNative.c - END ------

```
// ----- PPEManager.c - START ------
//! Static component of PPE manager, used to hold the instance.
class PPEManagerStatic
■static ref PPEManager m_Manager;
■static void CreateManagerStatic()
■■if (m_Manager)
■■■Debug.Log("PPEManagerStatic | CreateManagerStatic - PPEManager already exists");
Ereturn;
| ||
■■m_Manager = new PPEManager;
■static void DestroyManagerStatic()
■■if (m_Manager)
■■■m_Manager.Cleanup();
■■■delete m Manager:
==}
|
■//! Returns the manager instance singleton
■static PPEManager GetPPEManager()
■■return m_Manager;
/brief Postprocess manager, responsible for updates, receiving, and re-distributing requester data to their i
■/par Basic post process flow outline:
■Getting a registered 'PPERequester' instance from the 'PPERequesterBank'
■Launching the requester, either through an overriden 'Start' method, or custom method with some setters
■/par On render update, PPEManager:
■Handles queued requester changes, re-distributes individual commands to material structure
■■/par
■■Updates the material/parameter structure and calculates the blend values
■■/par
■■Sets the final values via native functions (only called once per changed parameter - optimization stonks
■/note Requester serves as a centralized platform for specific effec/group of effects. Although technically for the serves as a centralized platform for specific effec/group of effects.
■/note and clearer command hierarchy (no value setters without clear parentage).
class PPEManager extends Managed
■const int CAMERA_ID = 0;
■protected bool ■■■■■■■■■■m_ManagerInitialized;
```

Inrotected ref manzint_ref PPEClassRase > ■■m_PPEClassMan; //contains sorted nostprocess classes

```
// ----- PPEMatClassesBase.c - START ------
//! Created once, on manager init. Script-side representation of C++ material class, separate handling.
class PPEClassBase
■ protected Material ■■■■■■■■■■■ Material:
 ■protected ref map<int, ref array<int>>■■■■■■■■ ParameterUpdateQueueMap;
■protected ref array<int> ■■■■■■■■■■■■■■■ ParameterRemovalQueue;
■protected ref array<int> ■■■■■■■■■■■■■■■■■■■■□pdatedParameters;
 ■protected ref map<int,ref PPEMatClassParameterCommandData> ■■m_MaterialParamMapStructure; //
■void PPEClassBase(string mat_path_override = "")
■■Init(mat_path_override);
■■CreateMaterial():
■■CreateDataStructure();
■■RegisterMaterialParameters();
•}
protected void Init(string mat_path_override = "")
■■if (mat_path_override != "")
•
■■■m_MaterialPath = mat_path_override;
| ||
■■else
 ■■■m_MaterialPath = GetDefaultMaterialPath();
 ■■m_Manager = PPEManagerStatic.GetPPEManager();
■protected void CreateMaterial()
■■if (m_MaterialPath != "")
■■■m_Material = GetGame().GetWorld().GetMaterial(m_MaterialPath);
 ■Material GetMaterial()
■■return m_Material;
■//do not override!
■protected void CreateDataStructure()
■ MaterialParamMapStructure = new map<int,ref PPEMatClassParameterCommandData>;
■■//m ParameterUpdateQueue = new array<int>:
■■m_ParameterUpdateQueueMap = new map<int, ref array<int>>;
■■m_ParameterRemovalQueue = new array<int>;
Image: Imag
|
■//! inserted into associative array by parameter int value, parameter registration order does not matter (st
```

materialParameters();

```
----- PPEMatClassParameterBool.c - START ------
class PPEMatClassParameterBool extends PPEMatClassParameterCommandData
mprotected ref map<int,ref array<bool,int>> m_LayerInfo; //<pri>ority,<value,operator>>
■protected PPETemplateDefBool m_Bool;
■protected bool m_ValueDefault;
void PPEMatClassParameterBool(int mat_idx, int parameter_idx, PPEClassBase parent)
■■m_LayerInfo = new map<int,ref array<bool,int>>;
■override void InitDefaults()
■■Class.CastTo(m_Bool,m_Defaults);
■■m_ValueDefault = m_Bool.param2;
■}
■override void InitCuttent()
m_CurrentValues = new Param1<bool>(m_ValueDefault);
■override int GetParameterVarType()
■■return PPEConstants.VAR_TYPE_BOOL;
worride void Update(float timeslice, out Param p_total, out bool setting_defaults, int order)
■■super.Update(timeslice,p_total,setting_defaults,order);
protected int active_request_count = 0;
■■protected PPERequestParamDataBool req_data;
protected bool setting_value_zero = false;
protected bool bool_value_temp = false;
■■protected bool bool_value_total = m_ValueDefault;
■■if (p_total == null)
■■■p_total = new Param1<bool>(false);
}
■■if (m_RequestMap.Count() > 0)
■■m_LayerInfo.Clear();
==}
else
■■■//DbgPrnt("m_RequestMap.Count() is zero! Using default values. | mat/par: " + m_MaterialIndex + "/"
■■■SetParameterValueDefault(p_total);
■■■m_Parent.ParamUpdateRemove(m_ParameterIndex);
■■return;
```

```
----- PPEMatClassParameterColor.c - START ------
class ColorValuesData: Managed
■protected ref array<float> m_Values;
■protected int m_Operator;
■void ColorValuesData(ref array<float> values, int operator)
■■m_Values = new array<float>;
■■m_Values.Copy(values);
■m_Operator = operator;
■void SetValues(ref array<float> values)
■ Malues.Copy(values);
■array<float> GetValues()
■ return m_Values;
■void SetOperator(int operator)
■■m_Operator = operator;
■int GetOperator()
■■return m_Operator;
class PPEMatClassParameterColor extends PPEMatClassParameterCommandData
■const int VALUE_RED = 0;
■const int VALUE_GREEN = 1;
■const int VALUE BLUE = 2:
■const int VALUE_ALPHA = 3;
■const int VALUES_COUNT = 4; //rgba
■protected PPETemplateDefColor m_Color;
■protected ref map<int,ref ColorValuesData> m_LayerInfo; //<pri>ority,<<values>,operator>>
■float m_ColorDefaults[4];
void PPEMatClassParameterColor(int mat_idx, int parameter_idx, PPEClassBase parent)
m_LayerInfo = new map<int,ref ColorValuesData>;
■override void InitDefaults()
■m_Color = PPETemplateDefColor.Cast(m_Defaults);
■■m_ColorDefaults = {m_Color.param2,m_Color.param3,m_Color.param4,m_Color.param5};
```

```
----- PPEMatClassParameterCommandData.c - START ------
typedef map<int,ref PPERequestParamDataBase> ActiveParameterRequestsMap; //<request_ID, data>
class PPEMatClassParameterCommandData
//default layer constants, complex data like colors PPEMatClassParameterColor are handled separately
■const int LAYER INFO VALUE = 0;
■const int LAYER_INFO_OPERATOR = 1;
■ref array<int> ■■■■■■■■■■ CommandLayersArray; //for tracking active priorities and sorting them //
■protected int ■■■■■■■■■■■■■■■UpdatedCount;
protected int
■protected int ■■■■■■■■■■■■ParameterIndex;
■protected ref ActiveParameterRequestsMap ■■m_RequestMap;//<request_ID, parameter data>
■protected PPEClassBase ■■■■■■■m_Parent;
■protected ref Param ■■■■■■■■ Defaults; // Careful, formating is such, that param1 is ALWAYS string
■protected ref Param ■■■■■■■■ CurrentValues; // Careful, only actual values, WITHOUT string
■protected ref map<int,ref array<int>> ■■■m_Dependencies;
■void PPEMatClassParameterCommandData(int mat_idx, int parameter_idx, PPEClassBase parent)
■■m_MaterialIndex = mat_idx;
■■m_ParameterIndex = parameter_idx;
■■m_Parent = parent;
■■m_CommandLayersArray = new array<int>;
■■m_UpdatedCount = 0;
■■m RequestMap = new ActiveParameterRequestsMap;
■int GetParameterVarType()
■■return -1;
■void SetMaterialIndex(int value)
■■m_MaterialIndex = value;
■void SetParameterIndex(int value)
■■m_ParameterIndex = value;
■void SetParent(PPEClassBase parent)
■m_Parent = parent;
■void InsertRequestData(PPERequestParamDataBase request_data)
Material Request Map. Set(request_data.GetRequesterIDX(),request_data);//<request_ID, data>
■}
■void Update(float timeslice, out Param p_total, out bool setting_defaults, int order)
```

■■//insert dependencies to another undate round

```
// ----- PPEMatClassParameterFloat.c - START ------
class PPEMatClassParameterFloat extends PPEMatClassParameterCommandData
■protected ref map<int,ref array<float,int>> m_LayerInfo; //<pri>ority,<value,operator>>
■protected PPETemplateDefFloat m_Float;
■protected float m ValueDefault:
■protected float m_ValueMin;
■protected float m_ValueMax;
■void PPEMatClassParameterFloat(int mat_idx, int parameter_idx, PPEClassBase parent)
■■m_LayerInfo = new map<int,ref array<float,int>>;
■override void InitDefaults()
■■Class.CastTo(m Float,m Defaults):
■■//m_Float = PPETemplateDefFloat.Cast(m_Defaults);
■■m_ValueDefault = m_Float.param2;
■■m_ValueMin = m_Float.param3;
■■m_ValueMax = m_Float.param4;
■override void InitCuttent()
m_CurrentValues = new Param1<float>(m_ValueDefault);
■override int GetParameterVarType()
■■return PPEConstants.VAR_TYPE_FLOAT;
■override void Update(float timeslice, out Param p_total, out bool setting_defaults, int order)
■■super.Update(timeslice,p_total,setting_defaults,order);
protected int active_request_count = 0;
■■protected PPERequestParamDataFloat req_data;
protected bool setting_value_zero = false;
protected float float_value_temp = 0.0;
protected float float_value_default = 0.0;
protected float float_value_total = 0.0;
■■if (p_total == null)
\blacksquarep_total = new Param1<float>(0.0);
■■if (m_RequestMap.Count() > 0)
■■■m_LayerInfo.Clear():
```

■■else

```
----- PPEMatClassParameterInt.c - START ------
class PPEMatClassParameterInt extends PPEMatClassParameterCommandData
■protected ref map<int,ref array<int,int>> m_LayerInfo; //<pri>ority,<value,operator>>
■protected PPETemplateDefInt m_Int;
■protected int m_ValueDefault;
void PPEMatClassParameterInt(int mat_idx, int parameter_idx, PPEClassBase parent)
m_LayerInfo = new map<int,ref array<int,int>>;
■override void InitDefaults()
■■Class.CastTo(m_Int,m_Defaults);
■■m_ValueDefault = m_Int.param2;
■}
■override void InitCuttent()
■■m_CurrentValues = new Param1<int>(m_ValueDefault);
■override int GetParameterVarType()
■■return PPEConstants.VAR_TYPE_INT;
■override void Update(float timeslice, out Param p_total, out bool setting_defaults, int order)
■■super.Update(timeslice,p_total,setting_defaults,order);
protected int active_request_count = 0;
■■protected PPERequestParamDataInt req_data;
protected bool setting_value_zero = false;
protected bool int_value_temp = false;
protected bool int_value_total = m_ValueDefault;
■■if (p_total == null)
\blacksquare p_total = new Param1<int>(0);
}
■■if (m_RequestMap.Count() > 0)
■■m_LayerInfo.Clear();
==}
else
■■■//DbgPrnt("m_RequestMap.Count() is zero! Using default values. | mat/par: " + m_MaterialIndex + "/"
■■■SetParameterValueDefault(p_total);
■■■m_Parent.ParamUpdateRemove(m_ParameterIndex);
■■return;
```

```
// ----- PPEMatClassParameterResource.c - START ------
class PPEMatClassParameterResource extends PPEMatClassParameterCommandData
■override int GetParameterVarType()
■ return PPEConstants.VAR_TYPE_RESOURCE;
// ----- PPEMatClassParameterResource.c - END ------
// ----- PPEMatClassParameterTexture.c - START ------
class PPEMatClassParameterTexture extends PPEMatClassParameterCommandData
■override int GetParameterVarType()
■ return PPEConstants.VAR_TYPE_TEXTURE;
// ----- PPEMatClassParameterTexture.c - END ------
// ----- PPEMatClassParameterVector.c - START ------
class PPEMatClassParameterVector extends PPEMatClassParameterCommandData
■override int GetParameterVarType()
■ return PPEConstants.VAR_TYPE_VECTOR;
// ----- PPEMatClassParameterVector.c - END ------
```

```
// ----- PPEMedian.c - START -----
//!Median - PostProcessEffectType.Median
//unused/not modifiable from script?
class PPEMedian: PPEClassBase
■static const int PARAM_KERNEL = 0;
■static const int PARAM_METHOD = 1;
■override int GetPostProcessEffectID()
■ return PostProcessEffectType.Median;
■override string GetDefaultMaterialPath()
■ Teturn "Graphics/Materials/postprocess/median";
■override void RegisterMaterialParameters()
■■RegisterParameterScalarInt(PARAM_KERNEL,"Kernel",3,3,5);
■■RegisterParameterScalarInt(PARAM_METHOD, "Method", 2,0,2);
// ----- PPEMedian.c - END ------
// -----
// ----- PPENone.c - START -----
//!Dummy class - PostProcessEffectType.None
class PPENone: PPEClassBase
■override int GetPostProcessEffectID()
■ireturn PostProcessEffectType.None;
■override string GetDefaultMaterialPath()
■ return "";
// ----- PPENone.c - END ------
// -----
```

```
....// ----- PPERadialBlur.c - START -----
//!RadialBlur - PostProcessEffectType.RadialBlur
class PPERadialBlur: PPEClassBase
■static const int PARAM_POWERX = 0;
■static const int PARAM_POWERY = 1;
■static const int PARAM_OFFSETX = 2;
■static const int PARAM_OFFSETY = 3;
■static const int PARAM_PIXELSCALE = 4;
■static const int L_0_PAIN_BLUR = 100;
■override int GetPostProcessEffectID()
■ return PostProcessEffectType.RadialBlur;
■override string GetDefaultMaterialPath()
■ Teturn "Graphics/Materials/postprocess/radialblur";
■override void RegisterMaterialParameters()
RegisterParameterScalarFloat(PARAM_POWERX,"PowerX",0.0,0.0,0.1);

RegisterParameterScalarFloat(PARAM_POWERY,"PowerY",0.0,0.0,0.1);

RegisterParameterScalarFloat(PARAM_OFFSETX,"OffsetX",0.05,0.0,0.5);

RegisterParameterScalarFloat(PARAM_OFFSETY,"OffsetY",0.05,0.0,0.5);

RegisterParameterScalarFloat(PARAM_PIXELSCALE,"PixelScale",0.5,0.125,1.0);
■}
// -----
// ----- PPERadialBlur.c - END ------
// ----- PPERain.c - START -----
//!Rain - PostProcessEffectType.Rain
class PPERain: PPEClassBase
■static const int PARAM_DROPDISTANCE = 0;
■static const int PARAM_DROPSIZEX = 1;
■static const int PARAM DROPSIZEY = 2:
■static const int PARAM_RAINFOGGINESS = 3;
■static const int PARAM_RAINDENSITY = 4;
■static const int PARAM_FOGCOLORMULT = 5;
■static const int PARAM_BCKGRNDCOLORMULT = 6;
■static const int PARAM_REFRACTIONSCALE = 7;
■static const int PARAM_SUNVISIBLE = 8;
■static const int PARAM GODRAYINTNEAR = 9:
```

 \blacksquare static const int PARAM GODRAVINTEAR $= 10^{\circ}$

```
// ----- PPERBloodLoss.c - START ------
class PPERequester_BloodLoss extends PPERequester_GameplayBase
■void SetBloodLossLevel(float level)
■■SetTargetValueFloat(PostProcessEffectType.Glow,PPEGlow.PARAM_SATURATION,true,level,PPEG
// ----- PPERBloodLoss.c - END ------
// ----- PPERBurlapSack.c - START ------
class PPERequester_BurlapSackEffects extends PPERequester_GameplayBase
moverride protected void OnStart(Param par = null)
■■super.OnStart();
■■SetTargetValueFloat(PPEExceptions.EXPOSURE,PPEExposureNative.PARAM_INTENSITY,false,-10
■■SetTargetValueFloat(PPEExceptions.EYEACCOM,PPEEyeAccomodationNative.PARAM_INTENSITY
■■SetTargetValueFloat(PostProcessEffectType.Glow,PPEGlow.PARAM_VIGNETTE,false,2.0,PPEGlow.
■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_VIGNETTECOLOR,{0.0,0.0,0.0
■■if (GetGame() && GetGame().GetMission() && GetGame().GetMission().GetEffectWidgets())
■■■GetGame().GetMission().GetEffectWidgets().AddSuspendRequest(EffectWidgetSuspends.BURLAPS
■■}
■override protected void OnStop(Param par = null)
■■super.OnStop();
■■if (GetGame() && GetGame().GetMission() && GetGame().GetMission().GetEffectWidgets())
■■■GetGame().GetMission().GetEffectWidgets().RemoveSuspendRequest(EffectWidgetSuspends.BURL
■}
// ----- PPERBurlapSack.c - END ------
```

```
/// ----- PPERCameraADS_Opt.c - START ------
class PPERequester_CameraADS extends PPERequester_GameplayBase
■void SetValuesOptics(out array<float> mask_array, out array<float> lens_array, float gauss = 0.0)
■{
■M//mask
■■GetGame().ResetPPMask();
■■if (mask_array.Count() != 4)
\blacksquare mask_array = {0.0,0.0,0.0,0.0};
■■GetGame().AddPPMask(mask_array[0], mask_array[1], mask_array[2], mask_array[3]);
■■//lens
■■if (lens_array.Count() != 4)
\blacksquare lens_array = {0.0,0.0,0.0,0.0};
■■SetTargetValueFloat(PostProcessEffectType.Glow,PPEGlow.PARAM_LENSDISTORT,false,lens_arra
■■SetTargetValueFloat(PostProcessEffectType.Glow,PPEGlow.PARAM_MAXCHROMABBERATION,fals
■■SetTargetValueFloat(PostProcessEffectType.Glow,PPEGlow.PARAM_LENSCENTERX,false,lens_arra
■■SetTargetValueFloat(PostProcessEffectType.Glow,PPEGlow.PARAM_LENSCENTERY,false,lens_arra
 ■■//DOF - no DOF in optics
■■SetTargetValueBoolDefault(PPEExceptions.DOF,PPEDOF.PARAM_ENABLE);
■■//blur
■■SetTargetValueFloat(PostProcessEffectType.GaussFilter,PPEGaussFilter.PARAM_INTENSITY,false,c
■void SetValuesIronsights(out array<float> DOF_array)
■■//mask - no mask
■■GetGame().ResetPPMask();
■■//lens - no lens
\blacksquare\blacksquare SetTargetValueFloatDefault(PostProcessEffectType.Glow,PPEGlow.PARAM\_LENSDISTORT);
■■SetTargetValueFloatDefault(PostProcessEffectType.Glow,PPEGlow.PARAM_MAXCHROMABBERAT
■■SetTargetValueFloatDefault(PostProcessEffectType.Glow,PPEGlow.PARAM_LENSCENTERX);
■■SetTargetValueFloatDefault(PostProcessEffectType.Glow,PPEGlow.PARAM_LENSCENTERY);
III//DOF
■■SetTargetValueBool(PPEExceptions.DOF,PPEDOF.PARAM_ENABLE,DOF_array[0],PPEDOF.L_0_A
■■SetTargetValueFloat(PPEExceptions.DOF,PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_array[1],PPEDOF.PARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,false,DOF_ARAM_FOCUS_DIST,fa
■■SetTargetValueFloat(PPEExceptions.DOF,PPEDOF.PARAM_FOCUS_LEN,false,DOF_array[2],PPED
■■SetTargetValueFloat(PPEExceptions.DOF,PPEDOF.PARAM_FOCUS_LEN_NEAR,false,DOF_array[3])
■■SetTargetValueFloat(PPEExceptions.DOF,PPEDOF.PARAM_BLUR,false,DOF_array[4],PPEDOF.L_4
■■SetTargetValueFloat(PPEExceptions.DOF,PPEDOF.PARAM_FOCUS_DEPTH_OFFSET,false,DOF_a
■■//blur - no gauss blur (DOF bokeh only)
■■SetTargetValueFloatDefault(PostProcessEffectType.GaussFilter,PPEGaussFilter.PARAM_INTENSITY
■override protected void OnStop(Param par = null)
 ■■super.OnStop(par);
■■if (!GetGame())
```

```
class PPERequester_CameraNV extends PPERequester_GameplayBase
■static const int NV_NO_BATTERY= 0; //darkness
■static const int NV_DEFAULT_OPTICS = 1;
■static const int NV_DEFAULT_GLASSES = 2;
■static const int NV PUMPKIN = 3;
■static const int NV_TRANSITIVE = 4; //resets EV during camera transitions ■static const int NV_DAYTIME_OPTICS = 5;
■protected int m_CurrentMode;
■protected float m_UGExposureCoef = 1.0;
mprotected void SetNVMode(int mode)
■■SetTargetValueFloat(PPEExceptions.EYEACCOM,PPEEyeAccomodationNative.PARAM_INTENSITY
■■switch (mode)
---{
■■■case NV_NO_BATTERY: //battery off
■■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{0
■■■SetTargetValueFloatDefault(PPEExceptions.EXPOSURE,PPEExposureNative.PARAM_INTENSIT
■■■■SetTargetValueFloatDefault(PostProcessEffectType.FilmGrain,PPEFilmGrain.PARAM_SHARPNES
■■■SetTargetValueFloatDefault(PostProcessEffectType.FilmGrain,PPEFilmGrain.PARAM_GRAINSIZE
■■■SetTargetValueFloat(PPEExceptions.NVLIGHTPARAMS,PPELightIntensityParamsNative.PARAM_
■■■■SetTargetValueFloat(PPEExceptions.NVLIGHTPARAMS,PPELightIntensityParamsNative.PARAM_
■■break:
■■ case NV_DEFAULT_OPTICS: //NV optic on
■■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{0
SetTargetValueFloat(PPEExceptions.EXPOSURE,PPEExposureNative.PARAM_INTENSITY,false,
■■■■SetTargetValueFloat(PostProcessEffectType.FilmGrain,PPEFilmGrain.PARAM_SHARPNESS,false
■■■SetTargetValueFloat(PostProcessEffectType.FilmGrain,PPEFilmGrain.PARAM_GRAINSIZE,false,
■■■■SetTargetValueFloat(PPEExceptions.NVLIGHTPARAMS,PPELightIntensityParamsNative.PARAM_
■■■SetTargetValueFloat(PPEExceptions.NVLIGHTPARAMS,PPELightIntensityParamsNative.PARAM_
■■break:
■■■case NV_DAYTIME_OPTICS: //NV optic in daytime mode
■■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{0
■■■SetTargetValueFloat(PPEExceptions.EXPOSURE,PPEExposureNative.PARAM_INTENSITY,false,
■■■■SetTargetValueFloat(PostProcessEffectType.FilmGrain,PPEFilmGrain.PARAM_SHARPNESS,false
SetTargetValueFloat(PostProcessEffectType.FilmGrain,PPEFilmGrain.PARAM_GRAINSIZE,false,
■■■SetTargetValueFloat(PPEExceptions.NVLIGHTPARAMS,PPELightIntensityParamsNative.PARAM_
■■■SetTargetValueFloat(PPEExceptions.NVLIGHTPARAMS,PPELightIntensityParamsNative.PARAM_
■■break;
■■■case NV_DEFAULT_GLASSES: //goggles on
■■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{0
■■■SetTargetValueFloat(PPEExceptions.EXPOSURE,PPEExposureNative.PARAM_INTENSITY,false,
■■■SetTargetValueFloat(PostProcessEffectType.FilmGrain,PPEFilmGrain.PARAM_SHARPNESS,false
■■■SetTargetValueFloat(PostProcessEffectType.FilmGrain,PPEFilmGrain.PARAM_GRAINSIZE,false,
■■■SetTargetValueFloat(PPEExceptions.NVLIGHTPARAMS,PPELightIntensityParamsNative.PARAM_
■■■SetTargetValueFloat(PPEExceptions.NVLIGHTPARAMS,PPELightIntensityParamsNative.PARAM_
■■break:
■■ case NV_PUMPKIN: //pumpkin-o-vision
■■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{1
```

SetTargetValueFloat(PPEExceptions.EXPOSURE, PPEExposureNative.PARAM_INTENSITY, false,

```
// ----- PPERContaminated.c - START ------
// PPE when player is in contaminated area trigger
class PPERequester_ContaminatedAreaTint extends PPERequester_GameplayBase
■protected vector m_StartRGB = vector.Zero;
■protected float m_AccumulatedTime = 0;
■protected bool m_FadeIn = false;
■protected bool m_FadeOut = false;
■const float FADE_TIME = 3;
■// the end result is 1 - the value set here
■const float R_TARGET = 0.142; // end value 0.858
■const float G_TARGET = 0.15; // end value 0.850
■const float B_TARGET = 0.44; // end value 0.560
■override protected void OnStart( Param par = null )
■■super.OnStart( par );
■■m_AccumulatedTime = 0;
■■m_FadeIn = true;
■■m_FadeOut = false;
■■SetTargetValueFloat(PostProcessEffectType.FilmGrain,PPEFilmGrain.PARAM_SHARPNESS,false,10
■■SetTargetValueFloat(PostProcessEffectType.FilmGrain,PPEFilmGrain.PARAM_GRAINSIZE,false,1.0,
|}
■override protected void OnUpdate( float delta )
■■super.OnUpdate( delta );
■■if ( m_FadeIn && m_AccumulatedTime <= FADE_TIME )
■■■m_AccumulatedTime += delta;
■■■m_StartRGB[0] = 1 - FadeColourMult( 0, 1, m_AccumulatedTime / FADE_TIME ) * R_TARGET;
■■■m_StartRGB[1] = 1 - FadeColourMult( 0, 1, m_AccumulatedTime / FADE_TIME ) * G_TARGET;
■■■m_StartRGB[2] = 1 - FadeColourMult(0, 1, m_AccumulatedTime / FADE_TIME ) * B_TARGET;
■■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{m_
}
■■if ( m_FadeOut )
■■■if (m_AccumulatedTime <= FADE_TIME)
■■■■m_AccumulatedTime += delta;
■■■■m_StartRGB[0] = ( 1 - R_TARGET ) + FadeColourMult( 0, R_TARGET, m_AccumulatedTime / FAD
■■■■m_StartRGB[1] = (1 - G_TARGET) + FadeColourMult(0, G_TARGET, m_AccumulatedTime / FAD
■■■■m_StartRGB[2] = (1 - B_TARGET) + FadeColourMult(0, B_TARGET, m_AccumulatedTime / FAD
■■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{m
■■else
■■■Stop(); //proper termination after a fadeout
```

```
// ----- PPERControllerDisconnectBlur.c - START ------
class PPERequester_ControllerDisconnectBlur extends PPERequester_MenuBase
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■SetTargetValueFloat(PostProcessEffectType.GaussFilter,PPEGaussFilter.PARAM_INTENSITY,false,1
// ----- PPERControllerDisconnectBlur.c - END ------
// ----- PPERControlsBlur.c - START ------
class PPERequester_ControlsBlur extends PPERequester_MenuBase
■protected float m_Gauss;
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■m_Gauss = Param1<float>.Cast(par).param1;
■■SetTargetValueFloat(PostProcessEffectType.GaussFilter,PPEGaussFilter.PARAM_INTENSITY,true,m
// ----- PPERControlsBlur.c - END -----
// ----- PPERDeathDarkening.c - START ------
class PPERequester_DeathDarkening extends PPERequester_GameplayBase
■protected float m_Value;
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■m_Value = Param1<float>.Cast(par).param1;
■■//Print("PPERequester_DeathDarkening | level: " + m_Value);
■■m_Value = Easing.EaseInCubic(m_Value);
■■m_Value = Math.Lerp(0,-10,m_Value);
```

■■//Print("PPERequester DeathDarkening | value: " + value):

```
// ----- PPERDrowningEffect.c - START ------
class PPERequester_Drowning extends PPERequester_GameplayBase
■private float m_EffectPhase = 0;
■private float m_Magnitude = 0;
■private float m_MinMagnitude = 0.3;
■ private float m_MaxMagnitude = 0.3; ■■■■■■■■■■■ // Actual Maximum is Min+Max
■private float m_Frequency = 5;
■private float m_Stamina01;
■override protected void OnStart(Param par = null)
■■super.OnStart(par);
\blacksquare \blacksquare m_EffectPhase = 0;
■■m_Magnitude = 0;
■override protected void OnUpdate(float delta)
■■super.OnUpdate(delta);
■■if (!m_IsRunning)
TETreturn:
■■m_EffectPhase += delta * m_Frequency / (m_Stamina01 + 1);
■// Start with lower frequency and increase
■■float currentVal = (Math.Sin(m_EffectPhase) +1)/2; ■■■■■■■// Makes current val oscillate between (
■■currentVal = Easing.EaseInExpo(currentVal);■■■■■■■■■// Ease it to tweak the effect
■■currentVal *= currentVal * m_MaxMagnitude;■■■■■■■■■// Scale the normalized value to make it pr
■ currentVal += m_MinMagnitude;
■■m_Magnitude = Math.Lerp(m_Magnitude, currentVal, delta * m_Frequency);■■// Learp to smooth the
■■SetTargetValueFloat(PostProcessEffectType.Glow,PPEGlow.PARAM_VIGNETTE,true, m_Magnitude,
■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_VIGNETTECOLOR,{0.0,0.025,
■void SetStamina01(float stamina01)
■m_Stamina01 = stamina01;
■}
// -----
// ----- PPERDrowningEffect.c - END ------
// -----
// ----- PPERequestData.c - START -----
//! Data for one material parameter, requester side
class PPERequestParamDataBase
■PPERequesterBase m_Requester;
```

Inrotected hool m. UndatingDataValues: //new values are being sent periodically

```
// ----- PPERequesterBank.c - START ------
■\brief Requester bank contains all registered type instances as singletons. Creating new instances outsic
class PPERequesterBank extends Managed
■private static ref map<int,ref PPERequesterBase> m_Instances;
■private static bool m_Initialized = false;
■static int m_lastID = -1;
■static const int INVALID■■■■= -1;
■static const int REQ_INVENTORYBLUR■■■= RegisterRequester(PPERequester_InventoryBlur);
■static const int REQ_CONTROLLERDISCONNECT = RegisterRequester(PPERequester_ControllerDis
■static const int REQ_GLASSESSPORTBLACK
■= RegisterRequester(PPERequester_GlassesSportBlack
■static const int REQ_GLASSESSPORTBLUE■■= RegisterRequester(PPERequester_GlassesSportBlue
■static const int REQ_GLASSESSPORTGREEN■■= RegisterRequester(PPERequester_GlassesSportG
■static const int REQ_GLASSESSPORTORANGE
■= RegisterRequester(PPERequester_GlassesSport
■static const int REQ_GLASSESAVIATOR■■■= RegisterRequester(PPERequester_GlassesAviator);
■static const int REQ_GLASSESDESIGNER■ = RegisterRequester(PPERequester_GlassesDesignerBl
■static const int REQ_GLASSESTACTICAL■■= RegisterRequester(PPERequester_TacticalGoggles);
■static const int REQ_MOTOHELMETBLACK
■= RegisterRequester(PPERequester_MotoHelmetBlack)
■ static const int REQ_GLASSESWELDING ■ RegisterRequester(PPERequester_WeldingMask); ■ static const int REQ_CAMERANV ■ RegisterRequester(PPERequester_CameraNV);
■static const int REQ_CAMERAADS■■■ RegisterRequester(PPERequester_CameraADS);
■static const int REQ_BLOODLOSS■■■■= RegisterRequester(PPERequester_BloodLoss);
■static const int REQ_DEATHEFFECTS■■■= ŘegisterRequester(PPERequester_DeathDarkening);
■static const int REQ_UNCONEFFECTS■■■= RegisterRequester(PPERequester_UnconEffects);
■static const int REQ_TUNELVISSION■■■ RegisterRequester(PPERequester_TunnelVisionEffects);
■static const int REQ_BURLAPSACK■■■ RegisterRequester(PPERequester_BurlapSackEffects);
■static const int REQ_INTROCHROMABB■■ RegisterRequester(PPERequester_IntroChromAbb);
■static const int REQ_FEVEREFFECTS■■■= RegisterRequester(PPERequester_FeverEffects);
■static const int REQ_FLASHBANGEFFECTS■■= RegisterRequester(PPERequester_FlashbangEffects)
■static const int REQ_SHOCKHITEFFECTS■■= RegisterRequester(PPERequester_ShockHitReaction);
■static const int REQ_HEALTHHITEFFECTS■■= RegisterRequester(PPERequester_HealthHitReaction)
■static const int REQ_MENUEFFECTS■■■= RegisterRequester(PPÈRequester_MenuEffects);
■static const int REQ_CONTROLLERBLUR■■■ RegisterRequester(PPERequester_ControlsBlur);
■static const int REQ_CONTAMINATEDAREA■■= RegisterRequester(PPERequester_ContaminatedAre
■ static const int REQ_SPOOKYAREA ■ ■ RegisterRequester(PPERequester_SpookyAreaTint); ■ static const int REQ_PAINBLUR ■ RegisterRequester(PPERequester_PainBlur);
■static const int REQ_UNDERGROUND■■■= RegisterRequester(PPERUndergroundAcco);
■static const int REQ_DROWNING■■■■= RegisterRequester(PPERequester_Drowning);
■private static ref PPERequesterRegistrations ■m_Registrations; //more registrations to be placed here
■static void Init()
■■m_Registrations = new PPERequesterRegistrations;
■If (!m_Instances)
■■■m_Instances = new map<int,ref PPERequesterBase>;
■■m_Initialized = true;
```

■static void Cleanup()

```
----- PPERequestPlatformsBase.c - START ------
class PPERequesterBase
■protected bool m_IsRunning; //helps determine if the requester has been stopped or not
■protected bool m_ValuesSent;
■protected int m_IDX;
■protected bool m_Valid = false;
■protected ref map<int,ref map<int,ref PPERequestParamDataBase>> m_RequestDataStructure; // <mat/ref</p>
■void PPERequesterBase(int requester_IDX)
■■m_Valid = PPERequesterBank.VerifyRequester(this);
■■m_IDX = requester_IDX;
■■m ValuesSent = true;
■■m_IsRunning = false;
m_RequestDataStructure = new map<int,ref map<int,ref PPERequestParamDataBase>>;
■}
■//! Has to be set for the requester to be handled
■void SetRequesterUpdating(bool state)
■■if (!m_Valid)
■■■Debug.Log("" + this + " not valid!");
TETreturn:
■■PPEManagerStatic.GetPPEManager().SetRequestUpdating(this,state);
■■//TODO - separate into its own function?
■■■PPEManagerStatic.GetPPEManager().SetRequestActive(this,true);
■}
■void Start(Param par = null)
■■OnStart(par);
■■m_IsRunning = true;
■void Stop(Param par = null)
■■if (!m_RequestDataStructure || m_RequestDataStructure.Count() <= 0)
■■return;
■■OnStop(par);
■■m_IsRunning = false;
■bool IsRequesterRunning()
■■return m_lsRunning;
```

■//Lautomatically assigned by PPFRequesterRank

```
// ----- PPERFever.c - START ------
class PPERequester_FeverEffects extends PPERequester_GameplayBase
■void SetFeverIntensity(float intensity)
■■SetTargetValueFloat(PostProcessEffectType.GaussFilter,PPEGaussFilter.PARAM_INTENSITY,true,in
// ----- PPERFever.c - END ------
// ----- PPERFlashbangEffects.c - START -----
class PPERequester_FlashbangEffects extends PPERequester_GameplayBase
■const float VAL_FACTOR = 0.85;
■const float EXPOSURE_MAX = 50;
■protected float m_Exposure;
■protected float m_Intensity;
■override protected void OnStart(Param par = null)
■■if (!m_lsRunning)
■■■GetGame().GetMission().GetEffectWidgets().AddActiveEffects({EffectWidgetsTypes.COVER_FLASH
■■super.OnStart();
■override protected void OnStop(Param par = null)
■■super.OnStop();
\blacksquarem_Intensity = 0.0;
\blacksquare \blacksquare m_Exposure = 0.0;
■■GetGame().GetMission().GetEffectWidgets().RemoveActiveEffects({EffectWidgetsTypes.COVER_FLA
•}
■override protected void OnUpdate( float delta )
■ super.OnUpdate( delta );
■■if ( GetGame() && GetGame().GetMission() && GetGame().GetMission().GetEffectWidgets() )
■■■Param1<float> par = new Param1<float>(1 - m_Intensity);
■■■GetGame().GetMission().GetEffectWidgets().UpdateWidgets(EffectWidgetsTypes.COVER_FLASHB/
——}
```

■void SetFlashhandIntensity/float intensity_float daytime_toddle\

```
----- PPERGlasses.c - START -----
//glasses and helmets
//! base, not to be used directly, would lead to layering collisions!
class PPERequester_GenericBlackGlassesBase extends PPERequester_GameplayBase
moverride protected void OnStart(Param par = null)
■■super.OnStart();
■■SetTargetValueFloat(PostProcessEffectType.GodRays,PPEGodRays.PARAM_INTENSITY,true,0,PPE
■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{0.4,0
class PPERequester_GlassesSportBlack extends PPERequester_GenericBlackGlassesBase{}
class PPERequester_GlassesDesignerBlack extends PPERequester_GenericBlackGlassesBase{}
class PPERequester_MotoHelmetBlack extends PPERequester_GenericBlackGlassesBase{}
class PPERequester_GlassesSportBlue extends PPERequester_GameplayBase
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■SetTargetValueFloat(PostProcessEffectType.GodRays,PPEGodRays.PARAM_INTENSITY,true,0,PPE
■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{0.3,0
class PPERequester_GlassesSportGreen extends PPERequester_GameplayBase■
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■SetTargetValueFloat(PostProcessEffectType.GodRays,PPEGodRays.PARAM_INTENSITY,true,0,PPE
■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{0.2,0
class PPERequester_GlassesSportOrange extends PPERequester_GameplayBase
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■SetTargetValueFloat(PostProcessEffectType.GodRays,PPEGodRays.PARAM_INTENSITY,true,0,PPE
■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{0.0,0
class PPERequester_GlassesAviator extends PPERequester_GameplayBase
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■SetTargetValueFloat(PostProcessEffectType.GodRays,PPEGodRays.PARAM_INTENSITY,true,0,PPE
```

■SetTargetValueColor(PostProcessEffectType Glow PPEGlow PARAM, COLORIZATIONCOLOR (0.3.0

```
// ----- PPERHealthHit.c - START ------
class PPERequester_HealthHitReaction extends PPERequester_GameplayBase
■const float INTENSITY_MULT = 6.0;
■void SetHitIntensity(float intensity)
■■//color overlay
■■SetTargetValueFloat(PostProcessEffectType.Glow,PPEGlow.PARAM_OVERLAYFACTOR,true,0.05,P■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_OVERLAYCOLOR,{intensity * I
// ----- PPERHealthHit.c - END ------
// ----- PPERIntroChromAbb.c - START ------
class PPERequester_IntroChromAbb extends PPERequester_MenuBase
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■SetTargetValueFloat(PostProcessEffectType.ChromAber,PPEChromAber.PARAM_POWERX,false,0.0
■■SetTargetValueFloat(PostProcessEffectType.ChromAber,PPEChromAber.PARAM_POWERY,false,0.0
// ----- PPERIntroChromAbb.c - END ------
// ----- PPERInventoryBlur.c - START ------
class PPERequester_InventoryBlur extends PPERequester_GameplayBase
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■SetTargetValueFloat(PostProcessEffectType.GaussFilter,PPEGaussFilter.PARAM_INTENSITY,false,0
■}
```

// ----- PPERInventoryBlur.c - END ------

```
// ----- PPERMenuEffects.c - START ------
class PPERequester_MenuEffects extends PPERequester_MenuBase
■void SetBlurIntensity(float gauss)
■■SetTargetValueFloat(PostProcessEffectType.GaussFilter,PPEGaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussFilter.PARAM_INTENSITY,true,gaussF
■void SetVignetteIntensity(float vignette)
// ----- PPERMenuEffects.c - END ------
// -----
// ----- PPERotBlur.c - START ------
//!Rotation Blur
class PPERotBlur: PPEClassBase
■static const int PARAM_POWER = 0;
■static const int PARAM_MINANGLEPERSEC = 1;
■static const int PARAM_MAXANGLEPERSEC = 2;
■static const int PARAM_MINDEPTH = 3;
■static const int PARAM_MAXDEPTH = 4;
■override int GetPostProcessEffectID()
■■return PostProcessEffectType.RotBlur;
■}
■override string GetDefaultMaterialPath()
■■return "Graphics/Materials/postprocess/rotblur";
■override void RegisterMaterialParameters()
■■RegisterParameterScalarFloat(PARAM_POWER,"Power",0.0,0.0,0.09);
RegisterParameterScalarFloat(PARAM_MINANGLEPERSEC,"MinAnglePerSec",10.0,0.0,180.0);
RegisterParameterScalarFloat(PARAM_MAXANGLEPERSEC,"MaxAnglePerSec",100.0,0.0,180.0);
■■RegisterParameterScalarFloat(PARAM_MINDEPTH,"MinDepth",2.5,0.0,5.0);
■■RegisterParameterScalarFloat(PARAM_MAXDEPTH, "MaxDepth", 4.5, 0.0, 50.0);
■}
```

// ----- PPERotBlur.c - END ------

```
// ----- PPERPain.c - START ------
class PPERequester_PainBlur extends PPERequester_GameplayBase
invoid SetRadialBlur(float power_x, float power_y, float offset_x, float offset_y, float pixel_scale = 0.5)
■■SetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_POWERX,false,powers)
SetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_POWERY,false,powerstrargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETX,false,offsetSetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetSetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectType.RadialBlur.PARAM_OFFSETY,false,offsetTargetValueFloat(PostProcessEffectTyp
■■SetTargetValueFloat(PostProcessEffectType.RadialBlur,PPERadialBlur.PARAM_PIXELSCALE,false,p
// ----- PPERPain.c - END ------
// ----- PPERServerBrowser.c - START ------
class PPERequester_ServerBrowserBlur extends PPERequester_MenuBase
 ■protected float m_Gauss;
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■m_Gauss = Param1<float>.Cast(par).param1;
■■SetTargetValueFloat(PostProcessEffectType.GaussFilter,PPEGaussFilter.PARAM_INTENSITY,true,m
■}
// ----- PPERServerBrowser.c - END ------
// ----- PPERShockHit.c - START ------
class PPERequester_ShockHitReaction extends PPERequester_GameplayBase
■protected float m_Gauss;■protected float m_VignetteIntensity;
■protected float m_OverlayFactor;
protected ref array<float> m_OverlayColor;
```

■override protected void OnStart(Param par = null)

```
// ----- PPERSpooky.c - START ------
// PPE when player is in contaminated area trigger
class PPERequester_SpookyAreaTint extends PPERequester_GameplayBase
/*
■protected vector m_StartRGB = vector.Zero;
■protected float m AccumulatedTime = 0:
■protected bool m_FadeIn = false;
■protected bool m_FadeOut = false;
■const float FADE_TIME = 6;
■// the end result is 1 - the value set here
\blacksquareconst float R_TARGET = 0.0;
\blacksquareconst float G TARGET = 0.3;
■const float B_TARGET = 0.4;
■override protected void OnStart( Param par = null )
■■super.OnStart( par );
■■m_AccumulatedTime = 0;
■■m_FadeIn = true;
■■m_FadeOut = false;
==//().GetWorld().LoadNewLightingCfg("$mission:lighting_halloween.txt");
■override protected void OnUpdate( float delta )
■■super.OnUpdate( delta );
■■if ( m_FadeIn && m_AccumulatedTime <= FADE_TIME )</p>
■■■m_AccumulatedTime += delta;
■■■m_StartRGB[0] = 1 - FadeColourMult( 0, 1, m_AccumulatedTime / FADE_TIME ) * R_TARGET;
■■■m_StartRGB[1] = 1 - FadeColourMult( 0, 1, m_AccumulatedTime / FADE_TIME ) * G_TARGET;
■■■m_StartRGB[2] = 1 - FadeColourMult(0, 1, m_AccumulatedTime / FADE_TIME ) * B_TARGET;
■■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{m_
| | |
■■if ( m_FadeOut && m_AccumulatedTime <= FADE_TIME )</p>
■■■m_AccumulatedTime += delta;
■■■m_StartRGB[0] = ( 1 - R_TARGET ) + FadeColourMult( 0, R_TARGET, m_AccumulatedTime / FADE
■■■m_StartRGB[1] = (1 - G_TARGET) + FadeColourMult(0, G_TARGET, m_AccumulatedTime / FADE
■■■m_StartRGB[2] = (1 - B_TARGET) + FadeColourMult(0, B_TARGET, m_AccumulatedTime / FADE
■■■SetTargetValueColor(PostProcessEffectType.Glow,PPEGlow.PARAM_COLORIZATIONCOLOR,{m_
==}
■}
■override void OnStop(Param par = null)
■■m FadeIn = false:
```

■■m FadeOut – false:

```
// ----- PPERTunnel.c - START ------
class PPERequester_TunnelVisionEffects extends PPERequester_GameplayBase
■protected float m_Intensity;
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■m_Intensity = Param1<float>.Cast(par).param1;
}
// ----- PPERTunnel.c - END -----
// -----
// ----- PPERTutorial.c - START -----
class PPERequester_TutorialMenu extends PPERequester_MenuBase
■protected float m_Gauss;
■override protected void OnStart(Param par = null)
■■super.OnStart();
■■m_Gauss = Param1<float>.Cast(par).param1;
■■SetTargetValueFloat(PostProcessEffectType.GaussFilter,PPEGaussFilter.PARAM_INTENSITY,true,m
■}
// -----
// ----- PPERTutorial.c - END ------
// ----- PPERUnconEffects.c - START ------
class PPERequester_UnconEffects extends PPERequester_GameplayBase
protected float m_Intensity;
■override protected void OnStart(Param par = null)
```

■super OnStart()

```
// ----- PPERUndergroundAcco.c - START ------
class PPERUndergroundAcco extends PPERequester_GameplayBase
■void SetEyeAccommodation(float value)
■■SetTargetValueFloat(PPEExceptions.EYEACCOM,PPEEyeAccomodationNative.PARAM_INTENSITY
// ----- PPERUndergroundAcco.c - END ------
// -----
// ----- PPESMAA.c - START ------
//!SMAA - PostProcessEffectType.SMAA class PPESMAA: PPEClassBase
■static const int PARAM_PRESET = 0;
■override int GetPostProcessEffectID()
■ return PostProcessEffectType.SMAA;
■override string GetDefaultMaterialPath()
■■return "Graphics/Materials/postprocess/smaa";
■override void RegisterMaterialParameters()
■■RegisterParameterScalarInt(PARAM_PRESET,"Preset",0,0,3);
■}
// -----
// ----- PPESMAA.c - END ------
// ----- PPESSAO.c - START ------
//!SSAO - PostProcessEffectType.SSAO
class PPESSAO: PPEClassBase
■static const int POSTPROCESS_OPTION_VALUE_LOW = 0;
■static const int POSTPROCESS_OPTION_VALUE_MEDIUM = 1;
```

■static const int POSTPROCESS_OPTION_VALUE_HIGH = 2;
■static const int POSTPROCESS_OPTION_VALUE_HIGHEST = 3:

```
...// ----- PPESunMask.c - START ------
//!SunMask - PostProcessEffectType.SunMask
//A dummy class in script; 'SunMaskEffect' is used as a part of Rain and GodRays
class PPESunMask: PPEClassBase
\_/*
■static const int PARAM_INTENSITY = 0;
■static const int PARAM_SUNSIZE = 1;
■static const int PARAM_VSTREAKINT = 2;
■static const int PARAM_DSTREAKINT = 3;
■static const int PARAM_SUNMASK = 4;
*/
■override int GetPostProcessEffectID()
■■return PostProcessEffectType.SunMask;
■override string GetDefaultMaterialPath()
■■return "":
■}
■/*override void RegisterMaterialParameters()
■■RegisterParameterScalarFloat(PARAM_INTENSITY,"Intensity", 0.8, 0.0, 1.0);
■■RegisterParameterScalarFloat(PARAM_SUNSIZE, "SunSize", 0.2, 0.0, 1.0);
■RegisterParameterScalarFloat(PARAM_VSTREAKINT,"VerticalStreakIntensity",0.75,0.0,5.0);
■■RegisterParameterScalarFloat(PARAM_DSTREAKINT, "DiagonalStreakIntensity", 0.6, 0.0, 5.0);
■■//RegisterParameterResource(PARAM_SUNMASK,"SunMask","");
■}*/
// ----- PPESunMask.c - END -----
// ----- PPEUnderWater.c - START -----
//!UnderWater - PostProcessEffectType.UnderWater
class PPEUnderWater: PPEClassBase
■static const int PARAM RSINTENSITY = 0:
■static const int PARAM_RSPLANEDIST = 1;
■static const int PARAM_RSDEPTHDECREASE = 2;
■static const int PARAM_RSUVSCALE = 3;
■static const int PARAM_WATERPLANELUM = 4;
■override int GetPostProcessEffectID()
■ return PostProcessEffectType.UnderWater;
■override string GetDefaultMaterialPath()
```

```
// ----- PPEWetDistort.c - START -----
//!WetDistort - PostProcessEffectType.WetDistort
class PPEWetDistort: PPEClassBase
■static const int PARAM BLURPOWER = 0:
■static const int PARAM_LOCALBLURPOWER = 1;
■static const int PARAM EFFPOWERTOP = 2;
■static const int PARAM_EFFPOWERBOTTOM = 3;
■static const int PARAM_BLURDOWNSIZE = 4;
■static const int PARAM_BLURGAUSS = 5;
■static const int PARAM_WAVSPDX1 = 6;
■static const int PARAM_WAVSPDX2 = 7;
■static const int PARAM_WAVSPDY1 = 8;
■static const int PARAM WAVSPDY2 = 9:
■static const int PARAM_WAVEAMPX1 = 10;
■static const int PARAM_WAVEAMPX2 = 11;
■static const int PARAM_WAVEAMPY1 = 12;
■static const int PARAM WAVEAMPY2 = 13;
■static const int PARAM_PHASERANDX = 14;
■static const int PARAM_PHASERANDY = 15;
■static const int PARAM_PHASEPOSX = 16;
■static const int PARAM_PHASEPOSY = 17;
■override int GetPostProcessEffectID()
■■return PostProcessEffectType.WetDistort;
•}
■override string GetDefaultMaterialPath()
■■return "Graphics/Materials/postprocess/wetdistort";
■}
■override void RegisterMaterialParameters()
■■RegisterParameterScalarFloat(PARAM_BLURPOWER, "BlurPower", 0.5, 0.0, 1.0);
■■RegisterParameterScalarFloat(PARAM_LOCALBLURPOWER,"LocalBlurPower",0.4,0.0,1.0);
■■RegisterParameterScalarFloat(PARAM_EFFPOWERTOP,"EffectPowerTop",0.0,0.0,1.0);
■■RegisterParameterScalarFloat(PARAM_EFFPOWERBOTTOM,"EffectPowerBottom",0.0,0.0,1.0);
■■RegisterParameterScalarInt(PARAM_BLURDOWNSIZE,"BlurDownSize",2,0,3);
RegisterParameterScalarInt(PARAM_BLURGAUSS,"BlurGauss",1,1,4);
RegisterParameterScalarFloat(PARAM_WAVSPDX1,"WaveSpeedX1",4.1,0.5,10.0);
RegisterParameterScalarFloat(PARAM_WAVSPDX2,"WaveSpeedX2",3.7,0.5,10.0);
RegisterParameterScalarFloat(PARAM_WAVSPDY1,"WaveSpeedY1",2.5,0.5,10.0);

RegisterParameterScalarFloat(PARAM_WAVSPDY2,"WaveSpeedY2",1.85,0.5,10.0);

RegisterParameterScalarFloat(PARAM_WAVEAMPX1,"WaveAmpX1",0.005,0.001,0.02);

RegisterParameterScalarFloat(PARAM_WAVEAMPX1,"WaveAmpX2",0.004,0.001,0.02);
■■RegisterParameterScalarFloat(PARAM_WAVEAMPY1,"WaveAmpY1",0.009,0.001,0.02);
RegisterParameterScalarFloat(PARAM_WAVEAMPY2,"WaveAmpY2",0.007,0.001,0.02);

RegisterParameterScalarFloat(PARAM_PHASERANDX,"PhaseRandX",0.5,0.0,1.0);
■■RegisterParameterScalarFloat(PARAM_PHASERANDY, "PhaseRandY", 0.3, 0.0, 1.0);
RegisterParameterScalarFloat(PARAM_PHASEPOSX,"PhasePosX",10.0,0.0,20.0);
RegisterParameterScalarFloat(PARAM_PHASEPOSY,"PhasePosY",6.0,0.0,20.0);
■}
```

// ---- PPFWetDistort c - FND ----

```
// ----- PrepareCarp.c - START ------
class PrepareCarp extends PrepareFish
■override void Init()
{
m_Name = "#STR_gutandprepare0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
m_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■ MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Carp");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■■m_IngredientSetHealth[0] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = true;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Sickle");//you can insert multiple ingredients this way
■■InsertIngredient(1,"KukriKnife");
■■InsertIngredient(1,"FangeKnife");
■■InsertIngredient(1,"Hacksaw");
Insertingredient(1, Hacksaw ),
Insertingredient(1,"HandSaw");
Insertingredient(1,"KitchenKnife");
Insertingredient(1,"SteakKnife");
Insertingredient(1,"StoneKnife");
Insertingredient(1,"Cleaver");
Insertingredient(1,"CombatKnife");
Insertingredient(1,"HuntingKnife");
■■InsertIngredient(1,"Machete");
■■InsertIngredient(1,"Machete");
■■InsertIngredient(1,"CrudeMachete");
■■InsertIngredient(1,"OrientalMachete");
■■InsertIngredient(1,"WoodAxe");
■■InsertIngredient(1,"Hatchet");
■■InsertIngredient(1,"FirefighterAxe");
■■InsertIngredient(1,"Sword");
■■InsertIngredient(1,"AK_Bayonet");
■ InsertIngredient(1,"M9A1_Bayonet");
■ InsertIngredient(1,"SKS_Bayonet");
■ InsertIngredient(1,"BoneKnife");
■ InsertIngredient(1,"Screwdriver");
```

```
// ----- PrepareChicken.c - START -----
class PrepareChicken extends RecipeBase
■override void Init()
[
\blacksquare \blacksquare m_Name = "#skin";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
\blacksquarem_Specialty = 0.\overline{02};// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■ MaxQuantityIngredient[1] = -1;//-1 = disable check
 ■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"DeadChicken_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = true;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Sickle");//you can insert multiple ingredients this way
■■InsertIngredient(1,"KukriKnife");
■■InsertIngredient(1,"FangeKnife");
■■InsertIngredient(1,"Hacksaw");
Insertingredient(1, Hacksaw ),
Insertingredient(1,"HandSaw");
Insertingredient(1,"KitchenKnife");
Insertingredient(1,"SteakKnife");
Insertingredient(1,"StoneKnife");
Insertingredient(1,"Cleaver");
Insertingredient(1,"CombatKnife");
Insertingredient(1,"HuntingKnife");
 ■■InsertIngredient(1,"Machete");
■■InsertIngredient(1,"Machete");
■■InsertIngredient(1,"CrudeMachete");
■■InsertIngredient(1,"OrientalMachete");
■■InsertIngredient(1,"WoodAxe");
■■InsertIngredient(1,"Hatchet");
■■InsertIngredient(1,"FirefighterAxe");
■■InsertIngredient(1,"Sword");
■■InsertIngredient(1,"AK_Bayonet");
■ InsertIngredient(1,"M9A1_Bayonet");
■ InsertIngredient(1,"SKS_Bayonet");
■ InsertIngredient(1,"BoneKnife");
■ InsertIngredient(1,"Screwdriver");
```

```
// ----- PrepareFish.c - START ------
class PrepareFish extends RecipeBase
■override void Init()
■{
■override bool CanDo(ItemBase ingredients[], PlayerBase player)//final check for recipe's validity
■ return true;
■override void Do(ItemBase ingredients[], PlayerBase player,array<ItemBase> results, float specialty_wei
■■ItemBase ingredient = ingredients[0];
■■for (int i=0; i < results.Count(); i++)
■■■ItemBase item_result;
■■■Class.CastTo(item_result, results.Get(i));
■■■//Trasnfer current food state
■■■MiscGameplayFunctions.TransferItemProperties(ingredient, item_result);
■■■item_result.SetQuantityNormalized(Math.RandomFloat(0.8,1));
| ||
■■PluginLifespan lifespan = PluginLifespan.Cast( GetPlugin( PluginLifespan ) );
■■lifespan.UpdateBloodyHandsVisibility(player, true);
|
};
// ----- PrepareFish.c - END -----
// -----
// ----- PrepareMackerel.c - START -----
class PrepareMackerel extends PrepareFish
■override void Init()
■■m_Name = "#STR_gutandprepare0";■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
■■m_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
```

■■m MinOuantityIngredient[0] - -1://-1 - disable check

```
// ----- PrepareRabbit.c - START -----
class PrepareRabbit extends RecipeBase
■override void Init()
[
\blacksquare \blacksquare m_Name = "#skin";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
\blacksquarem_Specialty = 0.\overline{02};// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■ MaxQuantityIngredient[1] = -1;//-1 = disable check
 ■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"DeadRabbit");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = true;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Sickle");//you can insert multiple ingredients this way
■■InsertIngredient(1,"KukriKnife");
■■InsertIngredient(1,"FangeKnife");
■■InsertIngredient(1,"Hacksaw");
Insertingredient(1, Hacksaw ),
Insertingredient(1,"HandSaw");
Insertingredient(1,"KitchenKnife");
Insertingredient(1,"SteakKnife");
Insertingredient(1,"StoneKnife");
Insertingredient(1,"Cleaver");
Insertingredient(1,"CombatKnife");
Insertingredient(1,"HuntingKnife");
 ■■InsertIngredient(1,"Machete");
■■InsertIngredient(1,"Machete");
■■InsertIngredient(1,"CrudeMachete");
■■InsertIngredient(1,"OrientalMachete");
■■InsertIngredient(1,"WoodAxe");
■■InsertIngredient(1,"Hatchet");
■■InsertIngredient(1,"FirefighterAxe");
■■InsertIngredient(1,"Sword");
■■InsertIngredient(1,"AK_Bayonet");
■ InsertIngredient(1,"M9A1_Bayonet");
■ InsertIngredient(1,"SKS_Bayonet");
■ InsertIngredient(1,"BoneKnife");
■ InsertIngredient(1,"Screwdriver");
```

```
----- PresetHandlers.c - START ------
#ifdef DEVELOPER
//Class names need to match the preset name + _Preset suffix
//TEMPLATE:
class Farmer_Preset extends PresetSpawnBase
■override void OnPresetSpawn(PlayerBase player)
■ I/m_ItemsInventory -> contains all items in player inventory
//-----
class FreshSpawn_Preset extends PresetSpawnBase
■override void OnPresetSpawn(PlayerBase player)
■FindAndTakeToHandsFromInventory("Plum");
class Farmer_Preset extends PresetSpawnBase
override void OnPresetSpawn(PlayerBase player)
class AntiHazard_Preset extends PresetSpawnBase
override void OnPresetSpawn(PlayerBase player)
■EntityAl mask = FindItem("AirborneMask");
■■if (mask)
■■■mask.OnDebugSpawn();
class Update117_Preset extends PresetSpawnBase
■vector randompos;
■override void OnPresetSpawn(PlayerBase player)
```

```
----- PresetsMenu.c - START ------
class PresetsMenu extends UIScriptedMenu
■void PresetsMenu()
■void ~PresetsMenu()
■}
■override Widget Init()
■■layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/day_z_options_controls_preset.
m_schemes_list = TextListboxWidget.Cast( layoutRoot.FindAnyWidget("PresetListboxWidget") );
■■int c = GetGame().GetInput().GetProfilesCount();
\blacksquarefor (int i = 0; i < c; i++)
Estring tmp;
■■■GetGame().GetInput().GetProfileName(i, tmp);
■■m_schemes_list.Addltem(tmp, NULL, 0);
■■i = GetGame().GetInput().GetCurrentProfile();
\blacksquare if (i >= 0 && i < c)
■■m_schemes_list.SelectRow(i);
--
■■return layoutRoot;
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
■■switch (w.GetUserID())
■■case IDC_CANCEL:
■■■Close();
■■return true;
■■case IDC_OK:
■■■int index = m_schemes_list.GetSelectedRow();
■■if (index != -1)
■■■GetGame().GetInput().SetProfile(index);
■■■GetGame().GetMission().GetOnInputPresetChanged().Invoke();
EXECTION();
}
■■return true;
```

■■return false;

```
// ----- PressVest_ColorBase.c - START ------
class PressVest_ColorBase extends Clothing {};
class PressVest_Blue extends PressVest_ColorBase {};
class PressVest_LightBlue extends PressVest_ColorBase {};
// ----- PressVest_ColorBase.c - END ------
// ----- PrisonerCap.c - START -----
// -----
class PrisonerCap extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
■}
};
// ----- PrisonerCap.c - END -----
// -----
// ----- PrisonUniformJacket.c - START ------
class PrisonUniformJacket extends Clothing
■override void SetActions()
•{
■super.SetActions();
■■AddAction(ActionWringClothes);
|
};
// ----- PrisonUniformJacket.c - END -------
// -----
// ----- PrisonUniformPants.c - START -------
class PrisonUniformPants extends Clothing
```

```
----- ProfileOptionsUI.c - START -----
class ProfileOptionsUI extends ScriptedWidgetEventHandler
■void ~ProfileOptionsUI()
■■Deattach();
■void Attach(int profileOption, array<Widget> widget_array)
■■m_profileOption = profileOption;
■■m_widget_array = new array<Widget>;
■■m_widget_array = widget_array;
■■for (int i = 0; i < m_widget_array.Count(); i++)
■■■m_widget = m_widget_array.Get(i);
■■■if (m_widget)
■■■m_widget.SetHandler(this);
■■■■Init();
——}
■}
■void Deattach()
■■//m_profileOption = NULL;
■■if (m_widget_array && m_widget_array.Count() > 0)
■■■for (int i = 0; i < m_widget_array.Count(); i++)
 ■■■m_widget = m_widget_array.Get(i);
■■■if (m_widget)
■■■■m_widget.SetHandler(NULL);
■■■■m_widget = NULL;
——}
■void Init()
■■int state;
■■ButtonWidget button;
■■if ( Class.CastTo(button, m_widget) )
■■■state = m_widget_array.Find(m_widget);
■■■button.SetState( g_Game.GetProfileOption(m_profileOption) == state ); //works for bool values only!!
——}
■}
■void SetValue()
```

■■int state:

■■RuttonWidget button:

```
// ----- ProgressAsync.c - START ------
class ProgressAsync
■//proto native void SetUserData(Widget inst);
■proto static native void SetUserData(Widget inst);
■proto static native void SetProgressData(Widget inst);
■proto static native void DestroyAllPendingProgresses();
■proto static native void StartProgress();
// ----- ProgressAsync.c - END ------//
// ----- ProjectedCrosshair.c - START -------
class ProjectedCrosshair extends ScriptedWidgetEventHandler
■protected Widget■m_Root;
■protected vector■■m Position:
■protected bool ■■■m_Visible;
■protected bool■■■m_Debug;
■protected PlayerBase m_Player;
■protected Weapon_Base m_Weapon;
■void ProjectedCrosshair()
■■m_Player = NULL;
■■m_Weapon = NULL;
■■m Visible = false;
■■m_Debug = false;
■■GetGame().GetUpdateQueue(CALL_CATEGORY_GUI).Insert(this.Update);
■void ~ProjectedCrosshair()
■■GetGame().GetUpdateQueue(CALL_CATEGORY_GUI).Remove(this.Update);
■void OnWidgetScriptInit(Widget w)
■{
\blacksquare m_Root = w;
■■m_Root.SetHandler(this);
■■m_Root.Update();
■//! Update
■protected void Update()
#ifdef DIAG_DEVELOPER
■■m_Debug = DiagMenu.GetBool( DiagMenuIDs.WEAPON_DEBUG );
```

```
// ----- PropertyModifiers.c - START ------
class PropertyModifiers
■vector m_RecoilModifiers;
■vector m_SwayModifiers;
vector m_SightMisalignment;
■float m_BarrelLength;
■//ref Timer test_timer;
■ItemBase m_OwnerItem;
■float m_Weapon
■void PropertyModifiers(ItemBase owner)
■■//test_timer = new Timer();
■■//test_timer.Run(5, this, "Refresh", NULL, true);
■■m_OwnerItem = owner;
■■UpdateModifiers();
■■m_BarrelLength = CalculateBarrelLength(owner);
■//! Get Barrel Legth in mm
■float GetBarrelLength()
■ MarrelLength * 1000:
■■return CalculateBarrelLength(m_OwnerItem) * 1000;
|}
■float CalculateBarrelLength(ItemBase owner)
■■vector usti_hlavne_position = owner.GetSelectionPositionLS( "usti hlavne" );//usti hlavne
■■vector konec_hlavne_position = owner.GetSelectionPositionLS( "konec hlavne" );//konec hlavne
■■usti_hlavne_position = owner.ModelToWorld(usti_hlavne_position);
■■konec hlavne position = owner.ModelToWorld(konec hlavne position):
■■return vector.Distance(usti_hlavne_position, konec_hlavne_position);
■void UpdateModifiers()
■m_RecoilModifiers = GetModifierRaw(m_OwnerItem, "recoilModifier");
■ m_SwayModifiers = GetModifierRaw(m_OwnerItem, "swayModifier");
■■m_SightMisalignment = GetModifierRaw(m_OwnerItem, "sightMisalignmentModifier");
■■for (int i = 0; i < m_OwnerItem.GetInventory().AttachmentCount(); i++)
■■■ItemBase attachment = ItemBase.Cast(m_OwnerItem.GetInventory().GetAttachmentFromIndex(i));
■■■vector temp_value = PropertyModifiers.GetModifierRaw(attachment, "recoilModifier");
■■■m_RecoilModifiers[0] = m_RécoilModifiers[0] * temp_value[0];
■■■m_RecoilModifiers[1] = m_RecoilModifiers[1] * temp_value[1];
■■■m_RecoilModifiers[2] = m_RecoilModifiers[2] * temp_value[2];
temp_value = PropertyModifiers.GetModifierRaw(attachment, "swayModifier");
■■■m_SwayModifiers[0] = m_SwayModifiers[0] * temp_value[0];
■■■m_SwayModifiers[1] = m_SwayModifiers[1] * temp_value[1];
■■■m_SwayModifiers[2] = m_SwayModifiers[2] * temp_value[2];
```

■■temp_value - PropertyModifiers GetModifierRaw(attachment_"sightMisalignmentModifier"):

```
// ----- proto.c - START -----
/** @file */
Function/method modifiers:
proto prototyping of internal function (C++ side)
native - native call convention of internal function (C++ side)
volatile - internal function that may call back to script (hint for
 compiler that context need to be saved on stack)
private - function may not be called from script
event - hint for tools that the function should be exposed as
Entity script event.
Variable modifiers:
owned - modifier for returing internal functions. Tells to script-VM,
that returning variable (string or array) must not be released
out - modifier for function parameters. It tells that variable will
be changed by function call (used mainly by internal functions)
inout - modifier for function parameters. It tells that variable will
be used and then changed by function call (used mainly by internal functions)
const - constants. May not be modified.
reference - hint for tools (Material editor), that the variable may be used
as parameter in material
/*■■■■■■Enforce engine API■■■■■ */
/*_____*/
//placeholder
class AnimEvent
■int type;
■int slot;
class SoundEvent
■int type;
■int handle;
};
typedef int[] vobject;
class vobject
■proto native IEntitySource ToEntitySource();
#ifdef ENF_DONE
//-----
// SOUND API
//-----
```

//TODO

```
// ----- PsilocybeMushroom.c - START ------
class PsilocybeMushroom: MushroomBase
// ----- PsilocybeMushroom.c - END -----------------//
// ----- PSO11Optic.c - START ------
class PSO11Optic extends ItemOptics
// ----- PSO11Optic.c - END ------
// ----- PSO1Optic.c - START ------
class PSO1Optic extends ItemOptics
// ----- PSO1Optic.c - END -----
// -----
// ----- Pumpkin.c - START -----
class Pumpkin : Edible_Base
■override bool CanBeCooked()
■ return false;
■}■■
■override bool CanBeCookedOnStick()
■ return false;
```

```
----- PumpkinHelmet.c - START -----
// Have a spooky Halloween everyone!
class PumpkinHelmet : Clothing
■void PumpkinHelmet()
■■SetEventMask(EntityEvent.INIT); // Enable EOnInit event
■override bool CanPutAsAttachment( EntityAl parent )
■■if(!super.CanPutAsAttachment(parent)) {return false;}
■■Clothing eyewear = Clothing.Cast(parent.FindAttachmentBySlotName("Eyewear"));
■■if ( eyewear && eyewear.ConfigGetBool("isStrap") )
■■■return false;
| |
■■Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if ( mask && (mask.ConfigGetBool("noHelmet") && !HockeyMask.Cast(mask) && !SantasBeard.Cast(mask)
■■return false:
}
 ■return true;
■override void OnMovedInsideCargo(EntityAl container)
■■UpdateGlowState();
■override void OnMovedWithinCargo(EntityAl container)
■■UpdateGlowState();
■override void OnRemovedFromCargo(EntityAl container)
■■UpdateGlowState();
■override void EOnInit( IEntity other, int extra)
■■UpdateGlowState();
■}
■override void OnItemLocationChanged( EntityAl old_owner, EntityAl new_owner)
■■super.OnItemLocationChanged( old_owner, new_owner);
■■UpdateGlowState();
■override void EEHealthLevelChanged(int oldLevel, int newLevel, string zone)
```

■super FFHealthl evelChanged(oldLevel newLevel zone):

```
------ PumpkinSeedsPack.c - START ------
class PumpkinSeedsPack extends SeedPackBase
// ----- PumpkinSeedsPack.c - END ------
// -----
// ----- PunchedCard.c - START -----
// -----
class PunchedCard: Paper
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionUseUndergroundPanel);
■void OnUse()
■■AddHealthLevel(1);
// ----- PunchedCard.c - END -----
// ----- PurificationTablets.c - START ------
class PurificationTablets extends Edible_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceConsumeSingle);
■■AddAction(ActionConsumeSingle);
■■//AddAction(ActionForceFeed);
■■//AddAction(ActionEatBig);
```

```
// ----- PurifyWater.c - START ------
class PurifyWater extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_PurifyWater0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = -0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"PurificationTablets");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -1;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Pot");//you can insert multiple ingredients this way
■■InsertIngredient(1,"CanisterGasoline");//you can insert multiple ingredients this way
■■InsertIngredient(1,"DisinfectantAlcohol");//you can insert multiple ingredients this way
■InsertIngredient(1, "Canteen");//you can insert multiple ingredients this way
■InsertIngredient(1, "WaterBottle");//you can insert multiple ingredients this way
■InsertIngredient(1, "Vodka");//you can insert multiple ingredients this way
■InsertIngredient(1, "WaterPouch_ColorBase");//you can insert multiple ingredients this way
■■InsertIngredient(1,"Barrel_ColorBase");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[1] = 0;// 0 = do nothing
■ m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
```

■■m ResultInheritsHealth[0] – -1·// (value) – -1 means do nothing: a (value) >– 0 means this result will i

■■m_ResultSetHealth[0] = -1;//-1 = do nothing

```
// ----- PUScopeOptic.c - START -----
class PUScopeOptic extends ItemOptics
// ----- PUScopeOptic.c - END ------//
// ----- QuantityConversions.c - START ------
class QuantityConversions
■static string GetItemQuantityText( EntityAl item, bool showMax = false )
string quantity_text = "";
■■if (item.lsInherited(InventoryItem))
■■ItemBase item_base;
■■■Class.CastTo(item_base, item);
■■■float quantity = item_base.GetQuantity();
■■int ammo;
■■■if (item.lsMagazine())
■■■■Magazine magazine_item;
■■■■Class.CastTo(magazine_item, item);
■■■ammo = magazine_item.GetAmmoCount();
■■■return ammo.ToString();
■■else if (item.lsInherited(ItemBook))
■■■ return "";
■■■int stack_max = item.GetQuantityMax();
Image: Item.ConfigGetInt("varQuantityMax");
■■■//string unit = item.ConfigGetString("stackedUnit");
\blacksquare if (stack_max > 0)
  ■■■if (stack_max == 1)
  ■■■if (quantity > 1)
■■■■■■if (showMax)
■■■■■■quantity_text = string.Format("%1/%2", quantity.ToString(), stack_max.ToString());
■■■■■ //quantity_text = string.Format("%i/%i", quantity, stack_max);
  ■■■■else
  ■■■■■quantity_text = quantity.ToString();
 Example else
```

IIIIIII quantity text = "":

```
// ----- QuickBarBase.c - START ------
const int MAX_QUICKBAR_SLOTS_COUNT = 10;
// Script File
class QuickBarltem
■EntityAl m_entity;
■bool m_enabled;
■void QuickBarItem()
■m_entity = NULL;
■■m enabled = false;
class QuickBarBase
■protected ref QuickBarItem m_aQuickbarEnts[MAX_QUICKBAR_SLOTS_COUNT];
■protected PlayerBase _player;
multiple protected int m_slotsCount;
■void QuickBarBase(PlayerBase player)
\blacksquare for (int i = 0; i < MAX_QUICKBAR_SLOTS_COUNT; i++)
■■■m_aQuickbarEnts[i] = new QuickBarItem;
■■■m_aQuickbarEnts[i].m_enabled = false;
■■m_aQuickbarEnts[i].m_entity = NULL;
| ||
■■_player = player;
\blacksquare m_slotsCount = 0;
■void SetSize(int newSize)
■{
■■int i = m_slotsCount;
■■if ( newSize == m_slotsCount )
■■ return;
■■if (newSize > MAX_QUICKBAR_SLOTS_COUNT)
■■newSize = MAX_QUICKBAR_SLOTS_COUNT;
■■if ( newSize > i )
\blacksquare \blacksquare \{\blacksquare
■■for (; i < newSize; i++)
 ■■■EntityAl entity = m_aQuickbarEnts[i].m_entity;
Image if (entity != NULL && entity.GetHierarchyRootPlayer() == _player)
■■■■m_aQuickbarEnts[i].m_enabled = true;
■else
■■■for (i--; i >= newSize; i--)
■■■m_aQuickbarEnts[i].m_enabled = false;
```

```
// ----- QuiltedJacket_ColorBase.c - START ------
class QuiltedJacket_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes):
class QuiltedJacket_Black extends QuiltedJacket_ColorBase {};
class QuiltedJacket_Green extends QuiltedJacket_ColorBase {};
class QuiltedJacket_Blue extends QuiltedJacket_ColorBase {};
class QuiltedJacket_Red extends QuiltedJacket_ColorBase {};
class QuiltedJacket_Grey extends QuiltedJacket_ColorBase {};
class QuiltedJacket_Orange extends QuiltedJacket_ColorBase {};
class QuiltedJacket_Yellow extends QuiltedJacket_ColorBase {}; class QuiltedJacket_Violet extends QuiltedJacket_ColorBase {};
// ----- QuiltedJacket_ColorBase.c - END ------//
// -----
// ----- Rabbit.c - START ------
class DeadRabbit extends Edible_Base
override bool CanBeCookedOnStick()
■ return false;
■override bool CanBeCooked()
■ return false;
■override bool IsCorpse()
■ return true;
■override bool CanDecay()
■ return true;
// -----
// ----- Rabbit.c - END ------
// -----
```

```
// ----- RabbitLegMeat.c - START ------
class RabbitLegMeat extends Edible_Base
■override bool CanBeCooked()
■ return true;
■override bool CanBeCookedOnStick()
■ return true;
■override bool IsMeat()
■ return true;
■override bool CanDecay()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatMeat);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
// -----
// ----- RabbitLegMeat.c - END ------//
// -----
// ----- RadarCap_ColorBase.c - START ------
class RadarCap_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class RadarCap_Black extends RadarCap_ColorBase {};
class RadarCap_Blue extends RadarCap_ColorBase {};
class RadarCap_Brown extends RadarCap_ColorBase {};
```

class RadarCan Green extends RadarCan ColorBase A

```
// ----- RadialMenu.c - START ------
enum RadialMenuControlType
■MOUSE.
■CONTROLLER■
class RadialMenu : ScriptedWidgetEventHandler
■protected Widget■■■■m_Parent;
■protected Widget ■■■■■m_ItemCardsContainer;
■protected Widget■■■■m_RadialSelector;
■protected ImageWidget■■■m_RadialSelectorImage;
■protected ImageWidget ■■■■m_RadialSelectorPointerImage;
■protected int ■■■■■■m_RadialSelectorOriginalColor;
■protected int ■■■■■■m_RadialSelectorDisabledColor;
■protected Widget ■■■■m_SelectedObject;
■protected ref map<Widget, float> ■m RadialItemCards:
■protected float ■■■■■m_AngleRadOffset;
■protected ref Timer ■■■■m_UpdateTimer;
■//widget
■static const string ■■■■RADIAL_SELECTOR■ ■■■= "RadialSelector";
■static const string ■■■■RADIAL_SELECTOR_IMAGE■■= "SelectorImage";
■static const string ■■■■RADIAL_SELECTOR_POINTER■■= "SelectorPointer";
■ static const string ■■■■RADIAL_DELIMITER_CONTAINER ■= "RadialDelimiterContainer"; ■ static const string ■■■■■RADIAL_ITEM_CARD_CONTAINER ■= "RadialItemCardContainer";
■//controls
■protected RadialMenuControlType ■m_ControlType;
■private UAIDWrapper ■■■■m_SelectInputWrapper;
■private UAIDWrapper ■■■■m_BackInputWrapper;
■ protected float ■■■■■m_ControllerAngle;
■protected float ■■■■m_ControllerTilt;
■//controller
■protected int ■■■■■■m_ControllerTimout;
■ protected bool ■■■■■■ IsController Timout Enabled ■ = true; ■■ //enables/disables controller dese
■protected const float■■■CONTROLLER DESELECT TIMEOUT ■■= 1000;■■■//timeout [ms] after v
protected const float ■■■■CONTROLLER_TILT_TRESHOLD_SELECT■■= 0.8;■■■//tilt value (0.0-1.0)
■protected const float ■■■■CONTROLLER_TILT_TRESHOLD_EXECUTE■= 1.0;■■■//tilt value (0.0-1.0)
■//mouse
■protected bool ■■■■■■m_WidgetInitialized;
■protected const float ■■■■MOUSE_SAFE_ZONE_RADIUS = 120;■■//Radius [px] of safe zone where
■//References
■protected float ■■■■■m_RadiusOffset;■■■■//Radius [% of the main container size]
■protected float ■■■■■m_ExecuteDistanceOffset;■■//Distance offset [% of the main container size] after
■protected float■■■■■m_OffsetFromTop;■■■■//first item in the menu won't be directly on top but offsetFromTop;
■protected float■■■■■m_ItemCardRadiusOffset;■■■//Radius [% of the main container size] for item of
■protected string■■■■■m_DelimiterLayout;■■■■//layout file name with path
■ref UIScriptedMenu■■■■■m_RegisteredClass;
■ref static RadialMenu■■■■m_Instance;
```

/*

```
// ----- RadialProgressBar.c - START ------//
class RadialProgressBar
■reference float speed;
■reference float start_rotation;
■protected string m_BarHider;
■protected string m_BarPart;
■protected Widget m_Root;
■protected ref AnimatorTimer m_Anim;
■ protected float x, y, z;
■protected float rotation = 0;
\blacksquare protected int stage = 0;
■void RadialProgressBar()
■ m_Anim = new AnimatorTimer();
■■GetGame().GetUpdateQueue(ČALL_CATEGORY_GUI).Insert(this.Update);
I// -----
■void ~RadialProgressBar()
■■GetGame().GetUpdateQueue(CALL_CATEGORY_GUI).Remove(this.Update);
■void SetProgress (float progress )
■■if(progress < 50)
■■stage = 0;
■ rotation = 360 * ( progress / 100 );
protected void Update(float tDelta)
■■m_Anim.Tick(tDelta);
■■Widget child = m_Root.GetChildren();
\blacksquareint index = 0;
■ while (child)
■■■UpdateChild( child, index );
■■index++;
■■child = child.GetSibling();
——}
■protected void UpdateChild( Widget child, int index )
■■float rotation_value = ( m_Anim.GetTargetValue() * Math.RAD2DEG );
■■if( child.GetName() == m_BarHider )
```

■■if(stane -- 0)

```
----- RadialQuickbarMenu.c - START ------
enum RadialQuickbarCategory
■DEFAULT,
■SPECIALIZED_LIGHTS
class RadialQuickbarltem
■protected bool ■■■■■m_lsLightSourceExtra;
■protected bool ■■■■■m_lsNVG;
■protected int ■■■■■ Id;
■protected int ■■■■m_Category;
■protected int ■■■■■m_CategorySwitchID;
■protected EntityAl ■■■■m_Item;
■protected string ■■■m_ItemName;
■//radial menu
■protected Widget ■■■m_RadialMenuSelector;
■protected Widget■■m_RadialMenuItemCard;
■void RadialQuickbarItem(int id, EntityAl item, string item_name, int category = RadialQuickbarCategory.
\blacksquare \blacksquare m_Id\blacksquare \blacksquare \blacksquare = id;
■■m Item ■■■= item;
■■m_ItemName■■= item_name;
■■m_Category ■■■= category;
■■m_CategorySwitchID ■= category_switch;
■■if (ItemBase.Cast(m_Item))
■■m_IsNVG = ItemBase.Cast(m_Item).IsNVG();
■■■m_lsLightSourceExtra = ItemBase.Cast(m_ltem).lsLightSource();
|
■}
■EntityAl GetItem()
■■return m_ltem;
•}
■void SetItem( EntityAl item )
\blacksquare \blacksquare m_ltem = item;
■}
■bool IsLightSourceExtra()
■■return m_lsLightSourceExtra;
■bool IsNVGExtra()
■■return m_IsNVG;
```

■int GetId()

```
...// ----- Radio.c - START ------
class Radio extends ItemRadio
■override bool IsTransmitter()
■return true;
■//--- COMMON
■bool CanOperate()
■ return GetCompEM().IsSwitchedOn();
■//--- POWER EVENTS
■override void OnSwitchOn()
■■//switch device on
■■SwitchOn (true);
■override void OnSwitchOff()
■■//switch device off
■■SwitchOn (false);
■override void OnWorkStop()
■ //turn off device
■■GetCompEM().SwitchOff();
■}
■//--- RADIO ACTIONS
■void TuneNextStation()
■■//tune next station
■■TuneNext();
■}
■void TunePreviousStation()
■ //tune previous station
■■TunePrev();
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionTurnOnTransmitter);
■■AddAction(ActionTurnOffTransmitter);
■■AddAction(ActionTuneRadioStation);
```

// -----

```
// ----- Rag.c - START ------
class Rag extends ItemBase
■override bool CanSwapEntities(EntityAl otherItem, InventoryLocation otherDestination, InventoryLocation
■■if (!super.CanSwapEntities(otherItem, otherDestination, destination))
■ return false;
■■if (Torch.Cast(GetHierarchyParent()) && otherItem.IsInherited(Rag))
■■■return false;
■ return true;
■override bool CanPutAsAttachment(EntityAl parent)
■ if (!super.CanPutAsAttachment(parent))
■■ return false;
■■if (GetQuantity() > 1 && PlayerBase.Cast(parent))
■ return false;
■■}
■ return true;
■// IGNITION ACTION
■override bool HasFlammableMaterial()
■■return true;
■override bool CanBelgnitedBy(EntityAl igniter = null)
■ return GetHierarchyParent() == null;
■override bool CanIgniteItem(EntityAI ignite_target = null)
■return false;
■override bool CanBeCombined(EntityAl other_item, bool reservation_check = true, bool stack_max_limit
■■if (!super.CanBeCombined(other_item, reservation_check, stack_max_limit))
 I≡return false;
```

```
// ----- Raincoat_ColorBase.c - START ------
class Raincoat_ColorBase extends Clothing {};
class Raincoat_Orange extends Raincoat_ColorBase {};
class Raincoat_Green extends Raincoat_ColorBase {};
class Raincoat_Yellow extends Raincoat_ColorBase {};
class Raincoat_Pink extends Raincoat_ColorBase {};
class Raincoat_Red extends Raincoat_ColorBase {};
class Raincoat_Blue extends Raincoat_ColorBase {};
class Raincoat_Black extends Raincoat_ColorBase {};
// ----- Raincoat_ColorBase.c - END ------
// -----
// ----- RainProcurementManager.c - START ------//
class RainProcurementManager
■protected ■■■ItemBase ■m_ProcuringItem;■
■protected ■■■int ■■m IsUnderRoof:
■protected ref Timer ■ m_Update Timer;
■protected ■const ■int ■■RAIN_COEFFICIENT = 10;
■void RainProcurementManager( ItemBase procuring_item )
ProcuringItem = procuring_item;
■}
I// ------
■void InitRainProcurement()
■ m_IsUnderRoof = MiscGameplayFunctions.IsUnderRoof(m_ProcuringItem);
■■//m_ProcuringItem.SetQuantity(0); /*set to 0 for debug purposses*/
■■if (!m_lsUnderRoof)
■■■m_UpdateTimer = new Timer();
■■■m_UpdateTimer.Run(10, this, "RainProcurementCheck", NULL, true);
|
I// ------
■void RainProcurementCheck()
■■float rain_intensity = GetGame().GetWeather().GetRain().GetActual();
■■float fill_per_update = RAIN_CÖEFFICIENT * rain_intensity;
■■if (rain_intensity > 0)
 ■■■if ( m_ProcuringItem.GetQuantity() < m_ProcuringItem.GetQuantityMax() )
■■■Liquid.FillContainerEnviro( m ProcuringItem, LIQUID WATER, fill per update );
```

```
// ----- RandomGeneratorSyncManager.c - START ------
enum RandomGeneratorSyncUsage
■RGSRecoil,
■RGSJam,
■RGSGeneric,
■RGSAimingModel,
■Count,
class RandomGeneratorSyncManager
■const int USAGE_COUNT = RandomGeneratorSyncUsage.Count;
float randomValuesArray[USAGE_COUNT];
■DayZPlayer m_player;
■void RandomGeneratorSyncManager(DayZPlayer player)
■■m_player = player;
■void Update()
\blacksquare for(int i = 0; i < USAGE_COUNT; i++)
■■■randomValuesArray[i] = m_player.Random01();
■float GetRandom01(RandomGeneratorSyncUsage usage_index)
■■if(usage_index < USAGE_COUNT)
■■■return randomValuesArray[usage_index];
| | |
■■return -1;
|
■float GetRandomInRange(RandomGeneratorSyncUsage usage_index, float min, float max)
■ return GetRandom01(usage_index)*(max - min) + min;
■}
// ----- RandomGeneratorSyncManager.c - END ------//
// ----- Rangefinder.c - START ------
class Rangefinder extends PoweredOptic_Base
```

```
// ----- Raycaster.c - START ------
// Item for raycast debugging. It's also fun to play around with at night.
class Raycaster extends ItemBase
 ■protected ref Timer ■m_Timer;
■override void OnWorkStart()
■■if (!GetGame().IsServer() || !GetGame().IsMultiplayer() ) // Client side
 ■■■StartPeriodicMeasurement();
 ■■}
■void StartPeriodicMeasurement()
■■if(!m_Timer)
■■■m_Timer = new Timer;
■■m_Timer.Run( 0.01, this, "PrepareMeasurement", null, true );
■void PrepareMeasurement()
■■DoMeasurement();
■■DoMeasurement();
■}
■void DoMeasurement()
\blacksquarefloat dispersion = 80;
■■vector ■■from ■■■= GetPosition() + ( GetMemoryPointPos("beamStart") + ((GetOrientation()+Vector
■■vector ■■ori ■■■= GetOrientation() + Vector(90,0,0) + Vector(dispersion/2 - Math.RandomFloat(0, dispersion/2 - Math.Ra
■■vector ■■to ■■■= from + (ori.AnglesToVector())* 30;
■■vector ■■contact_pos;
■■vector ■■contact_dir;
■■int ■■contactComponent;
■■bool is_collision = DayZPhysics.RaycastRV( from, to, contact_pos, contact_dir, contactComponent, NU
■If (is_collision)
  ■■■vector hit_normal = contact_dir.VectorToAngles();
\blacksquarehit_normal[1] = hit_normal[1] + 90;
 ■■■// Generate result
■■■Particle p = ParticleManager.GetInstance().PlayInWorld(ParticleList.DEBUG_DOT, contact_pos);
■■■p.SetOrientation(hit_normal);
--}
 ■}
 ■void StopPeriodicMeasurement()
```

■if(m_Timer)

```
// ----- RDG2SmokeGrenade_ColorBase.c - START ------
class RDG2SmokeGrenade_ColorBase extends SmokeGrenadeBase
const string SOUND_SMOKE_START = "SmokegGrenades_RDG2_start_loop_SoundSet";
■const string SOUND_SMOKE_LOOP = "SmokegGrenades_RDG2_active_loop_SoundSet";
■const string SOUND_SMOKE_END = "SmokegGrenades_RDG2_end_loop_SoundSet";
■void RDG2SmokeGrenade_ColorBase()
■■SetAmmoType("");
■■SetFuseDelay(2);
■■SetParticlePosition("0 0.1 0");
■■SetSoundSmokeStart(SOUND_SMOKE_START);
■■SetSoundSmokeLoop(SOUND_SMOKE_LOOP);
■■SetSoundSmokeEnd(SOUND_SMOKE_END);
■void ~RDG2SmokeGrenade ColorBase() {}
class RDG2SmokeGrenade_Black extends RDG2SmokeGrenade_ColorBase
■void RDG2SmokeGrenade_Black()
■■SetParticleSmokeStart(ParticleList.GRENADE RDG2 BLACK START);
■■SetParticleSmokeLoop(ParticleList.GRENADE_RDG2_BLACK_LOOP);
■■SetParticleSmokeEnd(ParticleList.GRENADE_RDG2_BLACK END);
■}
}
class RDG2SmokeGrenade_White extends RDG2SmokeGrenade_ColorBase
void RDG2SmokeGrenade_White()
■{
■■SetParticleSmokeStart(ParticleList.GRENADE_RDG2_WHITE_START);
■■SetParticleSmokeLoop(ParticleList.GRENADE RDG2 WHITE LOOP):
■■SetParticleSmokeEnd(ParticleList.GRENADE_RDG2_WHITE_END);
}
// -----
// ----- RDG2SmokeGrenade_ColorBase.c - END ------
// ----- RecipeBase.c - START -----
const int MAX_NUMBER_OF_INGREDIENTS = 2;
const int MAXIMUM_RESULTS = 10;
const float DEFAULT_SPAWN_DISTANCE = 0.5;
class RecipeBase
string m_ItemsToCreate[MAXIMUM_RESULTS];
```

■ref array/string> m Ingredients[MAX_NLIMBER_OF_INGREDIENTS]:

```
// ----- RecoilBase.c - START ------
class RecoilBase
■bool m_DebugMode;
 ■Weapon_Base m_Weapon;
■PlayerBase m_Player;
■protected bool m_DeleteRequested;
■protected float m_Time;//how much time has elapsed since first update
■protected float m_ReloadTime;//reload time config parameter of the weapon
■protected vector m_RecoilModifier;
■protected bool m IsClient:
■// for mouse offset
■float m_MouseOffsetRangeMin;//in degrees min
■float m_MouseOffsetRangeMax;//in degrees max
■float m_MouseOffsetRelativeTime = 1;//[0..1] a time it takes to move the mouse the required distance rel
■float m_HandsOffsetRelativeTime = 1;//[0..1] a time it takes to move the hands the required distance give
■float m_CamOffsetRelativeTime = 1;//[0..1] a time it takes to move the camera the required distance rela
■float m_CamOffsetDistance = 0.05;//how far the camera will travel along the z-axis in cm
■float m_MouseOffsetDistance;//how far should the mouse travel
■float m_TimeNormalized;
■//protected float m_MouseOffsetResult;//in degrees max
■protected vector m_MouseOffsetTarget;//move the mouse towards this point
■protected vector m_MouseOffsetTargetAccum;//the overall mouse offset so far(all deltas accumulated)
■protected float m_Angle;//result between the min and max
■// mouse end
 ■protected ref array<vector> m_HandsCurvePoints;
■void RecoilBase(Weapon_Base weapon)
 ■■m_Weapon = weapon;
■■//m_DebugMode = false;
■■m DebugMode = GetDayZGame().IsAimLogEnabled();
m_Player = PlayerBase.Cast(weapon.GetHierarchyRootPlayer());
■■m_HandsCurvePoints = new array<vector>;
■Init();
■■PostInit(weapon);
■}
■void Init();
■Weapon_Base GetWeapon()
■■return m_Weapon;
■void PostInit(Weapon_Base weapon)
■■int muzzleIndex = weapon.GetCurrentMuzzle();
■■m_Angle = m_Player.ĠetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().GetRandom().G
■■m_RecoilModifier = GetRecoilModifier( GetWeapon() );
■■if(m_DebugMode) Print(m_Angle);
 m_ReloadTime = weapon.GetReloadTime(muzzleIndex);
■■m_MouseOffsetTarget = vector.YawToVector(m_Angle);

■■m_MouseOffsetTarget = m_MouseOffsetTarget * m_MouseOffsetDistance;
m_IsClient = !GetGame().IsDedicatedServer();
```

■■m CamOffsetDistance *- m RecoilModifier[2]:

```
// ----- Red9.c - START ------
class Red9: Pistol_Base
};
// ----- Red9.c - END -----
// -----
// ----- Red9Bttstck.c - START ------
class Red9Bttstck extends Inventory_Base
■override bool CanPutAsAttachment( EntityAl parent )
■■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (!parent.lsKindOf("PlateCarrierHolster") && !parent.lsKindOf("PlateCarrierComplete") && !parent.lsK
■ return true;
■■return false;
■}■
// ----- Red9Bttstck.c - END ------//
// -----
// ----- ReflexVest.c - START ------
class ReflexVest extends Clothing {};
// -----
// ----- ReflexVest.c - END -----
// ----- Refridgerator.c - START ------
class Refridgerator extends ItemBase
■SoundOnVehicle ■m_SoundLoopEntity;
```

■override bool IsElectricAppliance()

```
// ----- RefuelTorch.c - START -----
// This recipe adds fuel to torch
class RefuelTorch extends RecipeBase
■override void Init()
m_Name = "#STR_RefuelTorch0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 0.25;//animation length in relative time units
■■m_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = -1;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■■m MaxQuantityIngredient[0] = -1://-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = -1;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Rag");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[0] = 0;// 0 = do nothing
■■m_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Torch");//you can insert multiple ingredients this way
■■InsertIngredient(1,"LongTorch");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m_IngredientSetHealth[1] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[1] = -1;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("Torch");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = -2;// (value) == -1 means do nothing; a (value) >= 0 means this result will i
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
```

■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result man ResultReplacesIngredient[0] = -1:// value == -1 means do nothing; a value >= 0 means this result w

```
// ----- Remington12.c - START ------
class Remington12: Rifle_Base
};
// ----- Remington12.c - END ------
// ----- RemoteDetonator.c - START ------
enum ERemoteDetonatorLEDState
\blacksquareOFF = 0.
■LIT,
class RemoteDetonator : Inventory_Base
■const string COLOR_LED_OFF ■■= "#(argb,8,8,3)color(0,0,0,1.0,co)";
■const string COLOR_LED_LIT ■■= "#(argb,8,8,3)color(1,0,0,1.0,co)";
■const string SELECTION_NAME_LED = "LED";
■protected ERemoteDetonatorLEDState m_LastLEDState;
■bool IsKit()
■■return true;
•}
■void UpdateLED(ERemoteDetonatorLEDState pState, bool pForced = false)
■■int selectionIdx = GetHiddenSelectionIndex(SELECTION_NAME_LED);
■■switch (pState)
■■case ERemoteDetonatorLEDState.LIT:
■■SetObjectTexture(selectionIdx, COLOR_LED_LIT);
■■break:
■■default:
■■SetObjectTexture(selectionIdx, COLOR_LED_OFF);
•
■■m_LastLEDState = pState;
■■SetSynchDirty();
■}
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionAttachExplosivesTrigger);
■■AddAction(ActionDisarmExplosiveWithRemoteDetonatorUnpaired);
```

```
----- RemotelyActivatedItemBehaviour.c - START ------
class RemotelyActivatedItemBehaviour
■protected EntityAl■m_Parent;
■protected EntityAl■m_PairDevice;
■protected int■■m_PairDeviceNetIdLow;
■protected int■■m_PairDeviceNetIdHigh;
■void RemotelyActivatedItemBehaviour(notnull EntityAl pParent)
■■m_Parent = pParent;
■■m_PairDeviceNetIdLow = -1;
■■m_PairDeviceNetIdHigh = -1;
■void OnVariableSynchronized()
■■Pair();
■}
■void Pair()
■■EntityAl device = EntityAl.Cast(GetGame().GetObjectByNetworkId(GetPairDeviceNetIdLow(), GetPairI
■If (device)
•
■■■Pair(device);
——}
■void Pair(notnull EntityAl device)
■■m_PairDevice = device;
■■SetPairDeviceNetIds(device);
■■if (!m_Parent.GetPairDevice() || m_Parent.GetPairDevice() != m_PairDevice)
■■■m_PairDevice.PairRemote(m_Parent);
■■m_PairDevice.SetSynchDirty();
■■m_Parent.SetSynchDirty();
■void Unpair()
■■m_PairDeviceNetIdLow ■= -1;
■■m_PairDeviceNetIdHigh ■= -1;
■■if (m_PairDevice)
■■■m_PairDevice.SetSynchDirty();
■■m_PairDevice = null;
==}
■■m_Parent.SetSynchDirty();
```

■EntityAl GetPairDevice()

```
----- RemotePlayerDamageDebug.c - START ------
class RemotePlayerDamageDebug
const int MAX_DAMAGE_RECORDS = 5;
■PlayerBase m_Player;
■bool m_ChangedSinceSerialization;
■ref array<ref DamageData> m_DamageList = new array<ref DamageData>;
■void RemotePlayerDamageDebug(PlayerBase player)
■■m_Player = player;
void AddDamage(float value_global, float value_blood, float value_shock)
m_ChangedSinceSerialization = true;
■■DamageĎata damage_data = new DamageData( value_global, value_blood, value_shock );
■■m_DamageList.InsertAt(damage_data,0);
■■if( m_DamageList.Count() > MAX_DAMAGE_RECORDS )
■■m_DamageList.RemoveOrdered(MAX_DAMAGE_RECORDS);
■void InsertDamageObject(DamageData damage_object)
m_DamageList.Insert(damage_object);
■PlayerBase GetPlayer()
■ return m_Player;
■void Get(array<ref DamageData> damage_list)
\blacksquarefor(int i = 0; i < m_DamageList.Count(); i++)
■■■damage_list.Insert(m_DamageList.Get(i));
■void GetReversed(array<ref DamageData> damage_list)
■■int index = m_DamageList.Count() - 1;
\blacksquarefor(; index >= 0; index--)
■■■damage_list.Insert(m_DamageList.Get(index));
■}
■void Serialize(array<ref RemotePlayerDamageDebug> list)
■■if( m_ChangedSinceSerialization )
```

■■list Insert(this):

```
----- RemotePlayerMeta.c - START ------
class RemotePlayerMeta
■eRemoteDebugType ■m_DebugType;
■PlayerBase ■■■m_Player;
■void RemotePlayerMeta(PlayerBase player, eRemoteDebugType type )
■■m_Player = player;
■■m_DebugType = type;
■}
■void SetDebugType(eRemoteDebugType type)
■m_DebugType = type;
■eRemoteDebugType GetDebugType(eRemoteDebugType type)
■ return m_DebugType;
■void SetPlayer(PlayerBase player)
■ m_Player = player;
■}
■PlayerBase GetPlayer()
■ return m_Player;
// ----- RemotePlayerMeta.c - END ------
// -----
// ----- RemotePlayerStatDebug.c - START -----
enum eRemoteStatType
■NONE,
■DAMAGE_SYSTEM = 1,
■PLAYER_STATS = 2,
\blacksquareOTHER = 4,
class RemotePlayerStatDebug
■PlayerBase m Player:
■ref array<ref StatDebugObject> m_Stats = new array<ref StatDebugObject>;
■string m_Name;
```

Vector m. Pos.

```
// ----- RenderTarget.c - START ------
#ifdef GAME_TEMPLATE
[EditorAttribute("box", "GameLib/Scripted", "Render target", "-0.25 -0.25 -0.25", "0.25 0.25 0.25", "255 0 0
class RenderTargetClass
}
RenderTargetClass RenderTargetSource;
class RenderTarget: GenericEntity
■[Attribute("0", "slider", "Camera index", "0 31 1")]
■int CameraIndex;
■[Attribute("0", "editbox", "Position X <0, 1>")]
■float X;
■[Attribute("0", "editbox", "Position Y <0, 1>")]
■float Y;
■[Attribute("1", "editbox", "Render target width <0, 1>")]
■float Width;
■[Attribute("1", "editbox", "Render target height <0, 1>")]
■float Height;
■[Attribute("-1", "editbox", "Sort index (the lesser the more important)")]
■int Sort:
■[Attribute("0", "combobox", "Autoinit", "", { ParamEnum("No", "0"), ParamEnum("Yes", "1") } )]
■int AutoInit;
■[Attribute("0", "combobox", "Forcing creation of render target for camera #0 in Workbench", "", { ParamE
■bool ForceCreation:
■bool m_Show = true; // when autoinit, wait with showing the render target after all entities are created (E0
■ref RenderTargetWidget m_RenderWidget;
■void RenderTarget(IEntitySource src, IEntity parent)
■■SetFlags(EntityFlags.ACTIVE, false);
■ if (AutoInit)
----
\blacksquare \blacksquare \blacksquare m_Show = false;
■■■SetEventMask(EntityEvent.INIT);
■■■Init();
| ||
■}
■void ~RenderTarget()
■■delete m_RenderWidget;
■}
■void Init()
■■#ifdef WORKBENCH // Workbench is using its own renderer for main camera, it is not using render targ
■■■if (!ForceCreation && CameraIndex == 0)
■■■return;
■■#endif
■■int screenW, screenH;
■■GetScreenSize(screenW, screenH);
```

```
// ----- RepairElectric.c - START -----
class RepairElectric extends RecipeBase
■override void Init()
■{
■m_Name = "#repair";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.03;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = 1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"ElectronicRepairKit");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Inventory_Base");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = -1;// (value) = -1 means do nothing; a (value) >= 0 means this result will i
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- RepairEpoxy.c - START -----
class RepairEpoxy extends RecipeBase
■override void Init()
■{
■m_Name = "#repair";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.03;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = 1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"EpoxyPutty");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■m_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = true:// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Inventory_Base");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = -1;// (value) = -1 means do nothing; a (value) >= 0 means this result will i
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- RepairEyePatch.c - START -----
class RepairEyePatch extends RecipeBase
■override void Init()
■{
■m_Name = "#repair";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.03;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = 1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = 1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"EyePatch_Improvised");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Rag");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = -1;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = -1;// (value) = -1 means do nothing; a (value) >= 0 means this result will i
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
ResultUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- RepairPlanks.c - START -----
// -----
class RepairPlanks extends RecipeBase
■override void Init()
■{
■m_Name = "#repair";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
■■m Specialty = 0.03;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 2;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = 2;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"WoodenPlank");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"WoodenCrate");//you can insert multiple ingredients this way
■■InsertIngredient(1,"SeaChest");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result will i
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
```

■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result man ResultReplacesIngredient[0] = -1:// value == -1 means do nothing; a value >= 0 means this result w

```
// ----- RepairWithRags.c - START -----
class RepairWithRags extends RecipeBase
■override void Init()
■{
■■m_Name = "#repair";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.03;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = 1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = 1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"HeadCover_Improvised");//you can insert multi∎ple ingredients this way
■■InsertIngredient(0,"HandsCover_Improvised");//you can insert multiple ingredients this way
■■InsertIngredient(0,"LegsCover_Improvised");//you can insert multiple ingredients this way
■■InsertIngredient(0,"FeetCover_Improvised");//you can insert multiple ingredients this way
■■InsertIngredient(0,"FaceCover_Improvised");//you can insert multiple ingredients this way
■■InsertIngredient(0,"TorsoCover_Improvised");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[0] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Rag");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[1] = 0;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ m_IngredientAddQuantity[1] = -1;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
```

m_ResultInheritsHealth[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result will in ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class:

```
// ----- RepairWithTape.c - START -----
class RepairWithTape extends RecipeBase
■override void Init()
[
■m_Name = "#repair";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.03;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = 1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"DuctTape");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Inventory_Base");//you can insert multiple ingredients this way
■■InsertIngredient(1,"DefaultWeapon");//you can insert multiple ingredients this way
■■InsertIngredient(1,"DefaultMagazine");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m_IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
\blacksquarem_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = -1;// (value) = -1 means do nothing; a (value) >= 0 means this result will i
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
```

■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result makes a place space and the set of the set of

```
// ----- Repeater.c - START -----
enum RPTAnimState
■DEFAULT ■■■= 0, ■///< default weapon state, closed and discharged
■CHARGED ■■■= 1,
■JAMMED ■■■■= 2,
enum RPTStableStateID
ÙUNKNOWN■■■■= 0,
■EmptyDischarged■■= 1,
■LoadedCharged■■= 2,
■LoadedDischarged■= 3,
■LoadedJammed■■= 4,
class RPTEmptyDischarged extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RPTStableStateID.ÉmptyDischarged; } ■override bool HasBullet () { return false; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.E}; }
class RPTLoadedCharged extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RPTStableStateID.LoadedCharged; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.L}; }
class RPTLoadedDischarged extends WeaponStableState
■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {    wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RPTStableStateID.LoadedDischarged; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.F}; }
class RPTLoadedJammed extends WeaponStateJammed
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super. ŎnExit(e); if (LogManager.lsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RPTStableStateID.LoadedJammed; }
■override bool HasBullet () { return true; }
```

■ override bool Is lammed () { return false; }

```
// ----- RepeaterRecoil.c - START -----
class RepeaterRecoil: RecoilBase
■override void Init()
■{
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRan
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.125;■
■■m_MouseOffsetRangeMin = 80;//in degrees min
■■m_MouseOffsetRangeMax = 100;//in degrees max
■■m_MouseOffsetDistance = 1.4;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.0625;//[0..1] a time it takes to move the mouse the required distance
■■m_CamOffsetDistance = 0.02;
■■m_CamOffsetRelativeTime = 0.125;
}
// -----
// ----- RepeaterRecoil.c - END ------
// ----- ReplaceItemWithNewLambda.c - START ------
/**@class■■ReplaceItemWithNewLambda
    @brief■■adds automatic QuickBar handling
class ReplaceItemWithNewLambda: ReplaceItemWithNewLambdaBase
■PlayerBase m_Player;
■int m_IndexQB;
■void ReplaceItemWithNewLambda(EntityAl old_item, string new_item_type, PlayerBase player)
■■m_Player = player;
 ■■m IndexQB = -1;
■■if (m_Player)
■■■m_IndexQB = m_Player.FindQuickBarEntityIndex(old_item);
```

■/**@fn■■ConvOldPropertiesToNew

```
// ----- ReplaceItemWithNewLambdaBase.c - START ------
/**@class■■ReplaceItemWithNewLambdaBase
 @brief■■base class for transformation operations (creating one item from another)
class ReplaceItemWithNewLambdaBase
■EntityAl m_OldItem;
■string m_NewItemType;
■protected ref InventoryLocation m_OldLocation;
■protected ref InventoryLocation m_NewLocation;
■protected bool m_RemoveFromLocationPassed = false;
■private bool m_RemoveNetworkObjectInfoPassed = false;
■void ReplaceItemWithNewLambdaBase(EntityAl old_item, string new_item_type)
■{
■m_OldItem = old_item;
■■m_NewItemType = new_item_type;
■void OverrideNewLocation(InventoryLocation newLocation)
■■m_NewLocation = newLocation;
■}
■void VerifyItemTypeBySlotType() {}
mprotected bool WantCreateNewEntity()
■■return m_NewLocation && m_NewItemType != string.Empty;
■protected bool CanExecuteLambda()
■if (m_OldItem)
■■■if (GameInventory LocationCanRemoveEntity(m_OldLocation))
■■■//if (WantCreateNewEntity() GameInventory.LocationTestAddEntityType(m_NewItemType, true, true
EXECUTE return true:
■■return false;
|
■/**@fn■■PrepareLocations
■ * @brief

Step A. - prepare inventory locations
■protected bool PrepareLocations()
■■hndDebugPrint("[inv] ReplaceItemWithNewLambdaBase Step A) Prepare inventory locations, old_item
■■m OldLocation = new InventoryLocation:
■■if (m_OldItem.GetInventory().GetCurrentInventoryLocation(m_OldLocation)) // A.1) store old location
■■if (m_NewLocation == null)
■■■m_NewLocation = new InventoryLocation;
■■■■m_NewLocation.CopyLocationFrom(m_OldLocation, true); ■// A.2) prepare new location from old
 ■■■//setting proper location type for ground pos
■■■■if (!m_NewLocation.GetParent())
EXECUTE vector m4[4]:
```

■■■■Math3D MatrixIdentity4(m4)

```
// ----- ResaveTool.c - START ------
[WorkbenchPluginAttribute("Re-Save Tool", "Saves all files with given extension", "", "", {"ResourceManag
class ResavePlugin: WorkbenchPlugin
■[Attribute(".layout", "editbox", "File extension")]
■string Extension;
■WBModuleDef m module:
■void Resave(string file)
■Print("Resaving: " + file);
■■m module.SetOpenedResource(file):■
■m_module.Save();
■override void Run()
■if (Workbench.ScriptDialog("Resave", "Which files you want to resave?", this))
■■ m_module = Workbench.GetModule("ResourceManager");
■■■Workbench.SearchResources(Extension, Resave);
■override void RunCommandline()
m_module = Workbench.GetModule("ResourceManager");
■■if (m_module.GetCmdLine("-extension", Extension))
■■■Extension.Replace("\"", "");
==}
■■Workbench.SearchResources(Extension, Resave);
■■Workbench.GetModule("ResourceManager").Close();
■[ButtonAttribute("Re-Save")]
■bool OK()
■ return true;
■[ButtonAttribute("Cancel")]
■bool Cancel()
■return false;
// ----- ResaveTool.c - END ------
```

```
// ----- RespawnDialogue.c - START ------
class RespawnDialogue extends UIScriptedMenu
■const int ■■■■■ID_RESPAWN_CUSTOM = 101;
■const int ■■■■■ID_RESPAWN_RANDOM = 102;
■//tooltips
■protected Widget■■m_DetailsRoot;
■protected TextWidget■m_DetailsLabel;
■protected RichTextWidget■m_DetailsText;
■protected Widget ■■■m_CustomRespawn;
■//helper
■protected Widget ■■■m_CurrentlyHighlighted;
■void RespawnDialogue();
■void ~RespawnDialogue();
■override Widget Init()
■ layoutRoot ■ ■ GetGame().GetWorkspace().CreateWidgets("gui/layouts/day_z_respawn_dialog
■■m_DetailsRoot ■■■■= layoutRoot.FindAnyWidget("menu_details_tooltip");
■■m_DetailsLabel■■■■ TextWidget.Cast(m_DetailsRoot.FindAnyWidget("menu_details_label"));
■■m_DetailsText■■■= RichTextWidget.Cast(m_DetailsRoot.FindAnyWidget("menu_details_tooltip_coi
■■m_CustomRespawn ■■■= layoutRoot.FindAnyWidget("respawn_button_custom");
■■SetFocus(m_CustomRespawn);
■■return layoutRoot;
■override void Update(float timeslice)
■■super.Update(timeslice);
■■if (GetUApi().GetInputByID(UAUIBack).LocalPress() || GetUApi().GetInputByID(UAUIMenu).LocalPress
■■■Close();
■}
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
■■switch (w.GetUserID())
■■■case IDC_CANCEL:
■■■Close();
Ireturn true;
■■■case ID_RESPAWN_CUSTOM:
■■■return RequestRespawn(false);
■■■case ID_RESPAWN_RANDOM:
■■■return RequestRespawn(true);
--
```

■ return false:

```
// ----- RestApi.c - START -----
/** @file */
// states, (result + error) codes
// defined in C++
enum ERestResultState
■EREST_EMPTY,■■■■// not initialized
■EREST_PENDING,■■■■// awaiting processing
■EREST_FEEDING,■■■■// awaiting processing
■EREST_FEEDING,■■■■// awaiting incoming data
■EREST_SUCCESS,■■■■// result and/ or data are ready (success), awaiting data processing to be finis
■EREST_PROCESSED,■■■// finished (either successfully or with failure) and eill be removed ASAP
■EREST_ERROR,■■■■// (state >= EREST_ERROR) == error happened
■EREST_ERROR_CLIENTERROR, ■// (EREST_ERROR == EREST_ERROR_CLIENTERROR)
■EREST_ERROR_SERVERERROR,
■EREST_ERROR_APPERROR,
■EREST_ERROR_TIMEOUT,
■EREST_ERROR_NOTIMPLEMENTED,
■EREST_ERROR_UNKNOWN,
// options
// defined in C++
enum ERestOption
■ERESTOPTION_UNKNOWN,■■■■■// invalid option
■ERESTOPTION_READOPERATION,■■// read operation timeout (default 10sec)
■ERESTOPTION_CONNECTION, ■■■// connection timeout (default 10sec)
■// note: limit for timeout is between <3 .. 120> seconds, you cannot exceed this value
// object to be used from script for result binding
//■[Example:]
//■■RestCallback cbx1 = new RestCallback;
//■■RestContext ctx = GetRestApi().GetRestContext("http://somethingsomewhere.com/path/");
//■ctx.GET(cbx1,"RequestPath?Argument=Something");
//■■Event are then called upon RestCallback()
class RestCallback : Managed
■\brief Called in case request failed (ERestResultState) - Note! May be called multiple times in case of (RestResultState).
■void OnError(int errorCode)
■ // override this with your implementation
```

Print(" ||| OnFrror() ").

```
// ----- RGD5Grenade.c - START ------
class RGD5Grenade extends Grenade_Base
■void RGD5Grenade()
■■SetAmmoType("RGD5Grenade_Ammo");
■■SetFuseDelay(4);
■■SetParticleExplosion(ParticleList.RGD5);
■void ~RGD5Grenade() {}
// ----- RGD5Grenade.c - END ------//
// ----- Rice.c - START -----
class Rice: Edible_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatBig);
};
// ----- Rice.c - END ------
// ----- RidersJacket_ColorBase.c - START ------
class RidersJacket_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class RidersJacket_Black extends RidersJacket_ColorBase {};
```

```
....// ----- RifleBoltFree_Base.c - START -------
enum RBFAnimState
■DEFAULT ■■■= 0, ■///< default weapon state, closed and discharged
■JAMMED ■■■= 1,
enum RBFStableStateID
■UNKNOWN■■■■= 0,
■RBF_CLO_BU0_MA0■■= 1,
■RBF_CLO_BU1_MA0■■= 2,
■RBF_CLO_BU1_MA1■■= 3,
■RBF_CLO_BU0_MA1■■= 4,
■RBF_JAM_BU1_MA0■■= 5,
■RBF_JAM_BU1_MA1■■= 6
class RBF_CLO_BU0_MA0 extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RBFStableStateID.ŔBF_CLO_BUO_MA0; } ■override bool HasBullet () { return false; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.E}; }
class RBF_CLO_BU1_MA0 extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RBFStableStateID.RBF_CLO_BU1_MA0; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.L}; }
class RBF_CLO_BU1_MA1 extends WeaponStableState
■override void OnEntry (WeaponEventBase e) {    /*Print("[wpnfsm] " + Object.GetDebugName(m_weapon)
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RBFStableStateID.ŔBF_CLO_BU1_MA1; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return true; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.L}; }
class RBF_CLO_BU0_MA1 extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RBFStableStateID.RBF_CLO_BU0_MA1; }
■override bool HasBullet () { return false; }
```

■ override bool HasMagazine () { return true; }

```
// ----- RifleBoltLock_Base.c - START -------
enum RBLAnimState
■DEFAULT ■■■= 0, ■///< default weapon state, closed and discharged
■OPENED ■■■= 1,
■JAMMED ■■■■= 2,
enum RBLStableStateID
UNKNOWN■■■■= 0.
■RBL_CLO_BU0_MA0■■= 1,
■RBL_CLO_BU1_MA0■■= 2,
■RBL_CLO_BU1_MA1■■= 3,
■RBL_CLO_BU0_MA1■■= 4,
■RBL_OPN_BU0_MA1■■= 5,
■RBL_OPN_BU0_MA0■■= 6,
■RBL_JAM_BU1_MA0■■= 7,
■RBL_JAM_BU1_MA1■■= 8
class RBL_CLO_BU0_MA0 extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf ■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RBLStableStateID.RBL_CLO_BU0_MA0; }
■override bool HasBullet () { return false; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.E}; }
class RBL_CLO_BU1_MA0 extends WeaponStableState
■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {    wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RBLStableStateID.RBL_CLO_BU1_MA0; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.L}; }
class RBL_CLO_BU1_MA1 extends WeaponStableState
■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {    wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RBLStableStateID.RBL_CLO_BU1_MA1; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return true; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.L}; }
class RBL_CLO_BU0_MA1 extends WeaponStableState
■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {        wpnPrint("[wpnf
■ override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {

■ override int GetCurrentStateID () { return RBI StableStateID RBI CLO BLIO MA1: }
```

```
// ----- RifleChambering.c - START ------
class RifleChambering extends WeaponStateBase
■WeaponActions m_action;
■int m_actionType;
■Magazine m_srcMagazine; /// source of the cartridge
■ref WeaponStateBase m_start;
■ref WeaponEjectCasing m_eject;
■ref WeaponChambering_Cartridge m_chamber;
■ref WeaponChambering_W4T m_w4t;
■void RifleChambering (Weapon_Base w = NULL, WeaponStateBase parent = NULL, WeaponActions ac
■■m_action = action;
■■m_actionType = actionType;
■■// setup nested state machine
■■m_start = new WeaponChambering_Start(m_weapon, this, m_action, m_actionType);
■■m_eject = new WeaponEjectCasing(m_weapon, this);
■■m_chamber = new WeaponChambering_Cartridge(m_weapon, this);
■■m_w4t = new WeaponChambering_W4T(m_weapon, this);
■■// events
■■WeaponEventAnimBulletEject __be_ = new WeaponEventAnimBulletEject;
■■WeaponEventAnimBulletShow __bs_ = new WeaponEventAnimBulletShow;
■■WeaponEventAnimBulletInChamber __bc_ = new WeaponEventAnimBulletInChamber;
■■WeaponEventBase _fin_ = new WeaponEventHumanCommandActionFinished;
■■m_fsm = new WeaponFSM(this); // @NOTE: set owner of the submachine fsm
■■m_fsm.AddTransition(new WeaponTransition(m_start , __be_, m_eject));
■■m_fsm.AddTransition(new WeaponTransition(m_eject , __bs_, m_chamber));
■■m_fsm.AddTransition(new WeaponTransition(m_chamber, __bc_, m_w4t));
■■m_fsm.AddTransition(new WeaponTransition(m_w4t , _fin_, NULL));
■■// Safety exits
■■m_fsm.AddTransition(new WeaponTransition(m_chamber, _fin_, null));
■■m_fsm.AddTransition(new WeaponTransition(m_eject , _fin_, null));
■■m_fsm.AddTransition(new WeaponTransition(m_start , _fin_, null));
■■m_fsm.SetInitialState(m_start);
|
■override void OnEntry (WeaponEventBase e)
■if (e!= NULL)
■■{
■■■if (e.m_magazine != NULL)
■■■if (LogManager.IsWeaponLogEnable()) { wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(m_v
TEMP m_srcMagazine = e.m_magazine;
TEMP m_chamber.m_srcMagazine = m_srcMagazine;
| ||
■■else
■■■if (LogManager.IsWeaponLogEnable()) { wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(m_weaponLogEnable()) }
```

■■if (LogManager.IsWeaponLogEnable()) { wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(m_wea

```
// ----- RifleEjectCasing.c - START ------
class RifleEjectCasing extends WeaponStateBase
■WeaponActions m_action;
■int m_actionType;
■ref WeaponStartAction m_start;
■ref WeaponEjectCasing m_eject;
■ref BulletHide_W4T m_hideB;
■void RifleEjectCasing (Weapon_Base w = NULL, WeaponStateBase parent = NULL, WeaponActions act
■{
■■m_action = action;
■■m_actionType = actionType;
■■// setup nested state machine
■■m_start = new WeaponStartAction(m_weapon, this, m_action, m_actionType);
■■m_eject = new WeaponEjectCasing(m_weapon, this);
■■m_hideB = new BulletHide_W4T(m_weapon, this);
■■// events
■■WeaponEventBase __be_ = new WeaponEventAnimBulletEject;
■■WeaponEventBase __bh_ = new WeaponEventAnimBulletHide;
■■WeaponEventBase _fin_ = new WeaponEventHumanCommandActionFinished;
■■m_fsm = new WeaponFSM(this); // @NOTE: set owner of the submachine fsm
■■// transitions
■■m_fsm.AddTransition(new WeaponTransition(m_start, __be_, m_eject));
■■m_fsm.AddTransition(new WeaponTransition(m_eject, __bh_, m_hideB));
■ m_fsm.AddTransition(new WeaponTransition(m_hideB, _fin_, NULL));
■■// Safety exits
■■m_fsm.AddTransition(new WeaponTransition(m_eject , _fin_, null));
■■m_fsm.AddTransition(new WeaponTransition(m_start , _fin_, null));
■■m_fsm.SetInitialState(m_start);
};
// -----
// ----- RifleEjectCasing.c - END ------//
// ----- RifleReChambering.c - START ------
class RifleReChambering extends WeaponStateBase
WeaponActions m action;
```

■int m_actionTyne:

```
// ----- RifleSingleShotManual_Base.c - START ------
/**@class■Izh18_Base
       @brief■■base for Izh18
  * @NOTE■■name copies config base class
class RifleSingleShotManual_Base extends RifleSingleShot_Base
■void RifleSingleShotManual_Base ()
■}
■override void InitStateMachine()
■■// setup abilities
■■m_abilities.Insert(new AbilityRecord(WeaponActions.MECHANISM, WeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponA
■■m_abilities.Insert(new AbilityRecord(WeaponActions.MECHANISM, WeaponActionMechanismTypes.Mem_abilities.Insert(new AbilityRecord(WeaponActions.CHAMBERING, WeaponActionChamberingTypes.Mem_abilities.Insert(new AbilityRecord(WeaponActions.CHAMBERING, WeaponActionChamberingTypes.Mem_abilities.Insert(new AbilityRecord(WeaponActions.CHAMBERING, WeaponActionChamberingTypes.Mem.abilities.Insert(new AbilityRecord(WeaponActions.CHAMBERING), WeaponActionChamberingTypes.Mem.abilities.Insert(new AbilityRecord(WeaponActions.CHAMBERING), WeaponActionChamberingTypes.Mem.abilities.Insert(new AbilityRecord(WeaponActions.CHAMBERING), WeaponActionChamberingTypes.Mem.abilities.Insert(new AbilityRecord(WeaponActions.ChamberingTypes.Mem.abilities.Insert(new AbilityRecord(WeaponActions.ChamberingTypes.Mem.abilities.Insert(new AbilityRecord(WeaponActions.ChamberingTypes.Mem.abilities.Insert(new AbilityRecord(WeaponActions.ChamberingTypes.Mem.abilities.Insert(New AbilityRecord(WeaponActions.ChamberingTypes.Mem.abilities.ChamberingTypes.Mem.abilities.Insert(New AbilityRecord(WeaponActions.ChamberingTypes.Mem.abilities.ChamberingTypes.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abilities.Mem.abiliti
■■m_abilities.Insert(new AbilityRecord(WeaponActions.CHAMBERING, WeaponActionChamberingTypes
■■m_abilities.Insert(new AbilityRecord(WeaponActions.UNJAMMING, WeaponActionUnjammingTypes.U
■ m_abilities.Insert(new AbilityRecord(WeaponActions.UNJAMMING, WeaponActionUnjammingTypes.U
■■m_abilities.Insert(new AbilityRecord(WeaponActions.FIRE, WeaponActionFireTypes.FIRE_NORMAL))
■■m_abilities.Insert(new AbilityRecord(WeaponActions.FIRE, WeaponActionFireTypes.FIRE_COCKED))
■■// setup state machine
■■// basic weapon states
■■WeaponStateBase E = new RSSEmpty(this, NULL, RSSAnimState.DEFAULT);
■■WeaponStateBase F = new RSSFireout(this, NULL, RSSAnimState.DEFAULT);
■■WeaponStateBase J = new RSSJammed(this, NULL, RSSAnimState.DEFAULT);
■■WeaponStateBase L = new RSSLoaded(this, NULL, RSSAnimState.DEFAULT);
■■// unstable (intermediate) states
■■WeaponStateBase Mech_E = new WeaponCharging(this, NULL, WeaponActions.MECHANISM, WeaponStateBase Mech_F = new WeaponCharging(this, NULL, WeaponActions.MECHANISM, WeaponCharging(this, NULL, WeaponCharging(this, NULL
■■WeaponStateBase Mech_L = new WeaponEjectBullet(this, NULL, WeaponActions.MECHANISM, Wea
■■WeaponChambering Chamber_E = new WeaponChambering(this, NULL, WeaponActions.CHAMBERI
■■WeaponChambering Chamber_F = new WeaponChambering(this, NULL, WeaponActions.CHAMBERI
■■//WeaponStateBase Chamber_L = new RifleReChambering(this, NULL, WeaponActions.CHAMBERIN
  ■■WeaponStateBase Trigger_E = new WeaponDryFire(this, NULL, WeaponActions.FIRE, WeaponAction
 ■■WeaponStateBase Trigger_L = new WeaponFire(this, NULL, WeaponActions.FIRE, WeaponActionFire
■■WeaponStateBase Trigger_F = new WeaponDryFire(this, NULL, WeaponActions.FIRE, WeaponAction
■■WeaponStateBase Trigger_LJ = new WeaponFireToJam(this, NULL, WeaponActions.FIRE, WeaponA
■■WeaponStateBase Unjam_J = new WeaponUnjamming(this, NULL, WeaponActions.UNJAMMING, WeaponActions.UNJAMMING, WeaponBase Unjam_J = new WeaponUnjamming(this, NULL, WeaponActions.UNJAMMING, WeaponBase Unjam_J = new WeaponBase Unj
■■// events
 ■■WeaponEventBase __M__ = new WeaponEventMechanism;
■■WeaponEventBase __T_ = new WeaponEventTrigger;
■■WeaponEventBase __TJ_ = new WeaponEventTriggerToJam;
■■WeaponEventBase __L_ = new WeaponEventLoad1Bullet;
■■WeaponEventBase __U_ = new WeaponEventUnjam;
■■WeaponEventBase _fin_ = new WeaponEventHumanCommandActionFinished;
 ■■WeaponEventBase _abt_ = new WeaponEventHumanCommandActionAborted;
■■WeaponEventBase _dto_ = new WeaponEventDryFireTimeout;
■■m_fsm = new WeaponFSM();
```

■■m fsm AddTransition(new WeaponTransition(F ■■■ M ■Mech F)):

■■// charging

```
enum RSSAnimState
■DEFAULT ■■■= 0, ■///< default weapon state, closed and discharged
enum RSSStableStateID
■UNKNOWN■■■■= 0,
■Empty■■■= 1,
\blacksquareFireout\blacksquare\blacksquare\blacksquare= 2,
■Loaded■■■= 3.
■Jammed■■■■= 4,
class RSSEmpty extends WeaponStableState
■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {    wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) { 
■override int GetCurrentStateID () { return RSSStableStateID.Empty; }
■override bool HasBullet () { return false; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.E}; }
class RSSFireout extends WeaponStableState
■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {        wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super. OnExit(e); if (LogManager.lsWeaponLogEnable()) {
■override int GetCurrentStateID () { return RSSStableStateID.Fireout; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.F}; }
class RSSLoaded extends WeaponStableState
`■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {        wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) { 
■override int GetCurrentStateID () { return RSSStableStateID.Loaded; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.L}; }
class RSSJammed extends WeaponStateJammed
■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {        wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.ŎnExit(e); if (LogManager.IsWeaponLogEnable()) { 
■override int GetCurrentStateID () { return RSSStableStateID.Jammed; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■ override bool IsJammed () { return true; } ■ override bool IsBoltOpen () { return true; }
■override bool IsRepairEnabled () { return true; }
```

■override void InitMuzzleArray () / m. muzzleHasRullet – {MuzzleState F}: }

```
// ----- Rifle_Base.c - START ------
enum DefaultAnimState
■DEFAULT ■■■= 0, ■///< default weapon state, closed and discharged
/**@class■■Rifle_Base
* @brief■■base for rifles
* @NOTE■■name copies config base class
class Rifle_Base extends Weapon_Base
■void Rifle_Base ()
■override void InitStateMachine ()
■m_abilities.Insert(new AbilityRecord(WeaponActions.MECHANISM, WeaponActionMechanismTypes.M
■■// setup state machine
■■// basic weapon states
■■WeaponStateBase E = new WeaponStableState(this, NULL, DefaultAnimState.DEFAULT);
■■WeaponStateBase Mech = new WeaponCharging(this, NULL, WeaponActions.MECHANISM, Weapon
■■// events
■■WeaponEventBase __M__ = new WeaponEventMechanism;
■■WeaponEventBase _fin_ = new WeaponEventHumanCommandActionFinished;
■■WeaponEventBase _abt_ = new WeaponEventHumanCommandActionAborted;
■■m_fsm = new WeaponFSM();
■■// charging
■■m_fsm.AddTransition(new WeaponTransition(E■■, __M__,■Mech));
■■m_fsm.AddTransition(new WeaponTransition(Mech■, _fin_,■E));
■■m_fsm.AddTransition(new WeaponTransition(Mech■, _abt_,■É));
■■m_fsm.SetInitialState(E);
■■SelectionBulletHide();
■m_fsm.Start();
};
// ----- Rifle_Base.c - END ------
```

```
// ----- RightArea.c - START ------
class RightArea: Container
■ref PlayerContainer
■m_PlayerContainer;
■protected Widget■m_ContentParent;
■ protected ScrollWidget ■■■■■ ScrollWidget:
■protected Widget■■■■■■m_Uplcon;
■ protected Widget ■■■■■ Downloon:
■protected ref SizeToChild■■■■■m_ContentResize;
■protected bool■■■■■■■■■m_ShouldChangeSize = true;
■ protected bool ■■■■■■■■ ProcessGridMovement;
■void RightArea(LayoutHolder parent)
■■m_MainWidget.Show(true);
■■m_ScrollWidget■= ScrollWidget.Cast( m_MainWidget.FindAnyWidget( "Scroller" ) );
■■m_MainWidget■■= m_MainWidget.FindAnyWidget("Content");
■■//m_ContentParent■= m_RootWidget.FindAnyWidget("ContentParent");
■■m_PlayerContainer■= new PlayerContainer(this, false);
■■m_PlayerContainer.SetPlayer(PlayerBase.Cast(GetGame().GetPlayer()));
■■m_Body.Insert(m_PlayerContainer);
\blacksquarem ActiveIndex = 0:
■■m ProcessGridMovement = false:
■■m_Uplcon■■= m_RootWidget.FindAnyWidget( "Up" );
■■m_Downlcon■■= m_RootWidget.FindAnyWidget( "Down" );
■■//m_ContentParent.GetScript( m_ContentResize );
■■RecomputeOpenedContainers();
■}
■PlayerContainer GetPlayerContainer()
■■return m_PlayerContainer;
worride void DraggingOverHeader(Widget w, int x, int y, Widget receiver)
■■m_PlayerContainer.DraggingOverHeader(w, x, y, receiver);
■override bool Select()
■■return m_PlayerContainer.Select();
■}
■override bool SelectItem()
■■return m_PlayerContainer.SelectItem();
■override bool Combine()
■■return m_PlayerContainer.Combine();
```

```
// ----- RightGap.c - START ------
class RightGap: ScriptedWidgetEventHandler
reference int gap;
■bool kola;
*void OnWidgetScriptInit(Widget w)
■Ifloat width;
■Ifloat height;
■■w.SetFlags( WidgetFlags.EXACTSIZE, false );
■■w.GetScreenSize( width, height );
■■Print(w.GetName());
■■Print(width);
■■Print(height);
■w.SetSize( width-gap, height );
■■w.Update();
■}*/
■override bool OnUpdate( Widget w)
■Ifloat width;
■Ifloat height;
■■w.SetFlags( WidgetFlags.EXACTSIZE, false );
■■w.GetParent().GetScreenSize( width, height );
■■w.SetSize( width-gap, height );
■ return false;
■}
};
// ----- RightGap.c - END ------//
// -----
// ----- Roadflare.c - START -----
■Author: Boris Vacula
■Description: The flare has 3 burning states during which it uses different particle effects while illumnating
■When the flare is dropped while its burning, it is stood up on its stands. This makes the shadows, illuminate
enum RoadflareBurningState
■NOT_BURNING,
■INITIAL_BURN,
■MAIN_BURN,
■FINAL_BURN,
■SMOKE_ONLY
enum RoadflareModelStates
```

■DEFAULT,

■LINCAPPED LINIGNITED

```
// ----- RoadflareLight.c - START ------
class RoadflareLight extends PointLightBase
■static float ■m_RoadflareRadius = 30;
■static float ■m_RoadflareBrightness = 8.5;
■static string ■m_MemoryPoint = "light";
■void RoadflareLight()
■■SetVisibleDuringDaylight(true);
■■SetRadiusTo( m_RoadflareRadius );
■■SetBrightnessTo(m_RoadflareBrightness);
■■SetCastShadow(true);
■■FadeIn(1);
■■SetFadeOutTime(1);
■ SetDiffuseColor(1.0, 0.3, 0.3);
■ SetAmbientColor(1.0, 0.3, 0.3);
■■SetFlareVisible(true);
■■SetFlickerAmplitude(0.2);
■■SetFlickerSpeed(1.5);
■■SetDancingShadowsMovementSpeed(0.1);
■■SetDancingShadowsAmplitude(0.015);
■■EnableHeatHaze(true);
■■SetHeatHazeRadius(0.1);
■■SetHeatHazePower(0.02);
■}
■/*override void OnFrameLightSource(IEntity other, float timeSlice)
■}*/
// ----- RoadflareLight.c - END ------
// -----
// ----- RockBase.c - START -----
// -----
class RockBase: Object
■override bool IsRock()
■ return true;
■int GetAmountOfDrops(ItemBase item)
■ if (item)
 ■■switch (item.GetType())
■■ case "Pickaxe":
```

■■■return 4:

```
// ----- RopeBelt.c - START -----
class RopeBelt: Clothing
moverride void SetActions()
■■super.SetActions();
■■AddAction(ActionDeCraftRopeBelt);
■override bool CanPutInCargo( EntityAl parent )
■if(!super.CanPutInCargo( parent ) )
■■return false;
■■return IsEmpty();
■override bool CanReceiveAttachment( EntityAl attachment,int slotId )
■if(!super.CanReceiveAttachment( attachment, slotId ) )
■ return false;
■■}
■■return !GetInventory().IsInCargo();
// ----- RopeBelt.c - END ------
// ----- Rotator.c - START -----
class Rotator
■reference float speed;
■protected Widget m_root;
■protected ref AnimatorTimer m_anim;
■void Rotator()
m_anim = new AnimatorTimer();
```

■nrotected void Lindate()

```
// ----- Ruger1022.c - START ------
class Ruger1022_Base : RifleBoltFree_Base
■override RecoilBase SpawnRecoilObject()
■■return new Ruger1022Recoil(this); //TODO
■/*override int GetWeaponSpecificCommand(int weaponAction, int subCommand)
■■if (weaponAction == WeaponActions.RELOAD)
■■■switch (subCommand)
  ■■ case WeaponActionReloadTypes.RELOADSRIFLE_MAGAZINE_BULLET:
  ■■■return WeaponActionReloadTypes.RELOADRIFLE_MAGAZINE_BULLET;
  ■■■case WeaponActionReloadTypes.RELOADSRIFLE_NOMAGAZINE_BULLET:
■■■■return WeaponActionReloadTypes.RELOADRIFLE_NOMAGAZINE_BULLET;
■■■case WeaponActionReloadTypes.RELOADSRIFLE_MAGAZINE_NOBULLET:
■■■■return WeaponActionReloadTypes.RELOADRIFLE_MAGAZINE_NOBULLET;
  ■■■case WeaponActionReloadTypes.RELOADSRIFLE_NOMAGAZINE_NOBULLET:
■■■■return WeaponActionReloadTypes.RELOADRIFLE_NOMAGAZINE_NOBULLET;
■■■default:
■■■■return subCommand;
■■return subCommand;
■}*/
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
{
■■GameInventory inventory = GetInventory();
■■inventory.CreateInInventory("HuntingOptic");
■■SpawnAttachedMagazine("Mag_Ruger1022_30Rnd");
};
// ----- Ruger1022.c - END ------
// -----
// ----- Ruger1022Recoil.c - START ------
class Ruger1022Recoil: RecoilBase
```

Override void Init()

```
// ----- Saiga.c - START ------
class Saiga_Base : RifleBoltFree_Base
■override RecoilBase SpawnRecoilObject()
■■return new SiagaRecoil(this);
■/*override int GetWeaponSpecificCommand(int weaponAction ,int subCommand)
■■if (weaponAction == WeaponActions.RELOAD)
■■■switch (subCommand)
  ■■ case WeaponActionReloadTypes.RELOADSRIFLE_MAGAZINE_BULLET:
  ■■■return WeaponActionReloadTypes.RELOADRIFLE_MAGAZINE_BULLET;
■■■case WeaponActionReloadTypes.RELOADSRIFLE_NOMAGAZINE_BULLET:
■■■■return WeaponActionReloadTypes.RELOADRIFLE_NOMAGAZINE_BULLET;
■■■ case WeaponActionReloadTypes.RELOADSRIFLE_MAGAZINE_NOBULLET:
■■■■return WeaponActionReloadTypes.RELOADRIFLE_MAGAZINE_NOBULLET;
■■■case WeaponActionReloadTypes.RELOADSRIFLE_NOMAGAZINE_NOBULLET:
■■■■return WeaponActionReloadTypes.RELOADRIFLE_NOMAGAZINE_NOBULLET;
■■■default:
■■■■return subCommand;
■■return subCommand;
■}*/
■override bool CanEnterIronsights()
■■ItemOptics optic = GetAttachedOptics();
■■if (optic && PSO1Optic.Cast(optic) || PSO11Optic.Cast(optic) || KashtanOptic.Cast(optic) || KazuarOptic.Cast(optic) || Executive |
■■return true;
■■return super.CanEnterIronsights();
■}
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■■super.OnDebugSpawn();
■■GameInventory inventory = GetInventory();
■■inventory.CreateInInventory( "Saiga_Bttstck" );
■■inventory.CreateInInventory( "KobraOptic" );
■■inventory.CreateInInventory( "Battery9V" );
||
class Saiga : Saiga_Base
};
```

```
// ----- Saline.c - START -----
class SalineMdfr: ModifierBase
■float m_RegenTime;
■override void Init()
■ TrackActivatedTime = true;
■■m IsPersistent = true;
■■m_ID ■■■■= eModifiers.MDF_SALINE;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■■m_RegenTime = CalculateRegenTime();
■■DisableActivateCheck();
■override bool ActivateCondition(PlayerBase player)
■ return false:
■}
■override bool DeactivateCondition(PlayerBase player)
■float attached time = GetAttachedTime();
■■if (attached_time > m_RegenTime)
■■return true;
——}
■■else
•
■■return false:
==}
■override void OnReconnect(PlayerBase player)
■■OnActivate(player);
■override void OnActivate(PlayerBase player)
■■player.IncreaseHealingsCount();
■■if( player.GetNotifiersManager() )
■■■player.GetNotifiersManager().ActivateByType(eNotifiers.NTF_PILLS);
*/
•}
■override void OnDeactivate(PlayerBase player)
■■player.DecreaseHealingsCount();
■■if( player.GetNotifiersManager() )
■■■player.GetNotifiersManager().DeactivateByType(eNotifiers.NTF_PILLS);
*/
■override void OnTick(PlayerBase player, float deltaT)
```

```
// ----- SalineBag.c - START -----
class SalineBag: Inventory_Base {};
// ----- SalineBag.c - END ------
// ----- SalineBagIV.c - START -----
class SalineBagIV: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionGiveSalineTarget);
■■AddAction(ActionGiveSalineSelf);
};
// ----- SalineBagIV.c - END -----
// ----- Salmonella.c - START ------
class SalmonellaMdfr: ModifierBase
■static const int AGENT_THRESHOLD_ACTIVATE = 60;
■static const int AGENT_THRESHOLD_DEACTIVATE = 20;
■static const int CHANCE_OF_VOMIT = 10;■■■// base vomit chance
■static const int CHANCE_OF_VOMIT_AGENT = 20;■// adjusted by the agent count static const int WATER_DRAIN_FROM_VOMIT = 450;
■static const int ENERGY_DRAIN_FROM_VOMIT = 310;
■static const float STOMACH_MIN_VOLUME = 200; | min volume of stomach for vomit symptom
■static const float EVENT_INTERVAL_MIN = 12;
■static const float EVENT_INTERVAL_MAX = 18;
■float m_Time;
■float m_NextEvent;
```

■override void Init()

```
// ----- SalmonellaAgent.c - START -----
class SalmonellaAgent extends AgentBase
■override void Init()
■m_Type ■■■■ eAgents.SALMONELLA;
■■m_Invasibility ■■■= 0.75;
■■m_TransferabilityIn■■= 0.1;
■■m_TransferabilityOut■= 0.1;
■■m_AntibioticsResistance = 1;
■■m_MaxCount ■■■= 300;
■■m_Potency ■■■■= EStatLevels.HIGH;
■■m_DieOffSpeed ■■■= 1;
// ----- SalmonellaAgent.c - END -----
// ----- SambucusBerry.c - START ------
class SambucusBerry extends Edible_Base
■override bool CanBeCooked()
■■return true;
|
■override bool CanBeCookedOnStick()
■ return false;
■override bool IsFruit()
■■return true;
■override bool CanDecay()
Teturn true;
■}
■bool ConditionAttach (EntityAl parent)
■■//if Barrel_ColorBase
■■if ( parent.lsInherited( Barrel_ColorBase ) )
■■■Barrel_ColorBase barrel = Barrel_ColorBase.Cast( parent );
■■■if ( barrel.IsOpen() && !barrel.FindAttachmentBySlotName( "Nails" ) && !barrel.FindAttachmentBySlo
```

TELETURN true:

```
class SantasBeard extends Clothing
■override bool CanPutAsAttachment( EntityAl parent )
■■if (!super.CanPutAsAttachment(parent)) {return false;}
■■Clothing headgear = Clothing.Cast(parent.FindAttachmentBySlotName("Headgear"));
■■if (headgear && (headgear.ConfigGetBool("noMask") && !PumpkinHelmet.Cast(headgear) && !Weldin
■■ return false;
——}
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
}
// ----- SantasBeard.c - END ------//
// ----- SantasHat.c - START -----
class SantasHat extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
■}
};
// ----- SantasHat.c - END ------//
// ----- Sardines.c - START -----
class Sardines extends Edible_Base
```

■override bool CanBeCookedOnStick()

```
class SardinesCan: Edible_Base
■override void Open()
■ //super.Open();
■■ReplaceEdibleWithNew("SardinesCan_Opened");
■override bool IsOpen()
■ireturn false;
// ------
// ----- SardinesCan.c - END ------------------//
// ----- SardinesCan_Opened.c - START ------
class SardinesCan_Opened: Edible_Base
■override bool CanDecay()
■ return true;
■override bool CanProcessDecay()
■ireturn !(GetAgents() & eAgents.FOOD_POISON);
■override void SetActions()
■isuper.SetActions();
■■AddAction(ActionForceFeedCan);
■■AddAction(ActionEatCan);
// ----- SardinesCan_Opened.c - END -----
```

```
// ----- Sawedofflzh18.c - START -----
class SawedoffIzh18 extends Izh18_Base
■void Sawedofflzh18 ()
■override RecoilBase SpawnRecoilObject()
■ return new Izh18SawedOffRecoil(this);
// ----- Sawedofflzh18.c - END -----
// ----- SawedoffIzh18Shotgun.c - START -----
/**@class■■Sawedofflzh18Shotgun
* @brief■■base for Sawedofflzh18Shotgun
* @NOTE■ name copies config base class
class SawedoffIzh18Shotgun extends Izh18Shotgun_Base
■void Sawedofflzh18Shotgun ()
■}
■override RecoilBase SpawnRecoilObject()
■ return new Izh18ShotgunRecoil(this);
// ----- Sawedofflzh18Shotgun.c - END ------
// ----- SawoffB95.c - START -----
class SawOFFB95 extends RecipeBase
■override void Init()
■■m_Name = "#STR_sawoffbarrel0";
■■m. IsInstaRecine – false://should this recine he performed instantly without animation
```

```
// ----- SawoffFAMAS.c - START ------
class SawoffFAMAS extends RecipeBase
■override void Init()
[
m_Name = "#STR_sawoffhandle0";
■■m IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 2;//animation length in relative time units
\blacksquarem_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"FAMAS");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■m_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Hacksaw");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[1] = -20;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = true;// set 'true' to allow modification of the values by softskills on this in
■■//result1
-/*
■■AddResult("SawedoffMosin9130");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result
```

```
// ----- SawOfflzh18.c - START -----
class SawOffIzh18 extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_sawoffbarrel0";
■■m IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 2;//animation length in relative time units
\blacksquarem_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Izh18");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■m_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Hacksaw");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[1] = -20;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = true;// set 'true' to allow modification of the values by softskills on this in
■■//result1
-/*
■■AddResult("SawedoffIzh18");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result
```

```
// ----- SawOfflzh18Shotgun.c - START ------
class SawOffIzh18Shotgun extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_sawoffbarrel0";
■■m IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 2;//animation length in relative time units
\blacksquarem_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Izh18Shotgun");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Hacksaw");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[1] = -20;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = true;// set 'true' to allow modification of the values by softskills on this in
■■//result1
-/*
■■AddResult("SawedoffIzh18");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result
```

```
// ----- SawoffMagnum.c - START -----
class SawOffMagnum extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_sawoffbarrel0";
■■m IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 2;//animation length in relative time units
\blacksquarem_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Magnum");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Hacksaw");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[1] = -20;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = true;// set 'true' to allow modification of the values by softskills on this in
-/*
■■//result1
■■AddResult("SawedoffMagnum");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
```

m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result miles a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not be not been a value >= 0 means this result will be not be not been a value >= 0 means this result will be not be not be not been a value >= 0 means this result will be not be

```
// ----- SawoffMosin.c - START ------
class SawoffMosin extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_sawoffbarrel0";
■■m IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 2;//animation length in relative time units
\blacksquarem_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Mosin9130");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Hacksaw");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[1] = -20;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = true;// set 'true' to allow modification of the values by softskills on this in
■■//result1
-/*
■■AddResult("SawedoffMosin9130");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result
```

```
// ----- SawoffMosinPainted.c - START ------
class SawoffMosinPainted extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_sawoffbarrel0";
■■m IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 2;//animation length in relative time units
\blacksquarem_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Mosin9130_Black");//you can insert multiple ingredients this way
■■InsertIngredient(0,"Mosin9130_Green");//you can insert multiple ingredients this way
■■InsertIngredient(0,"Mosin9130_Camo");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[0] = 0;// 0 = do nothing
■■m_IngredientSetHealth[0] = -1; // -1 = do nothing
■ Ingredient Add Quantity [0] = 0; // 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Hacksaw");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[1] = -20;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = true;// set 'true' to allow modification of the values by softskills on this in
■■//result1
■■AddResult("SawedoffMosin9130_");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
\blacksquarem_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
```

■■m_ResultInheritsColor[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result classn
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultIseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this result

```
// ----- SawoffShotgunIzh43.c - START ------
class SawoffShotgunIzh43 extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_sawoffbarrel0";
■■m IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 2;//animation length in relative time units
\blacksquarem_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Izh43Shotgun");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Hacksaw");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[1] = -20;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = true;// set 'true' to allow modification of the values by softskills on this in
■■//result1
-/*
■■AddResult("Sawedofflzh43Shotgun");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result will in
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result
```

```
// ----- SawWoodenLog.c - START -----
class SawWoodenLog extends RecipeBase
■override void Init()
[
m_Name = "#STR_sawwoodenlog0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 2;//animation length in relative time units
\blacksquarem_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"WoodenLog");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -1;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■InsertIngredient(1,"Hacksaw");//you can insert multiple ingredients this way
■InsertIngredient(1,"HandSaw");//you can insert multiple ingredients this way
■InsertIngredient(1,"WoodAxe");//you can insert multiple ingredients this way
■■InsertIngredient(1,"Hatchet");//you can insert multiple ingredients this way
■■InsertIngredient(1,"FirefighterAxe");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[1] = -10;// 0 = do nothing
■■m_IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0; // 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = true;// set 'true' to allow modification of the values by softskills on this in
■■//result1
■■AddResult("Firewood");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
```

■■m_ResultInheritsHealth[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result will in m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result classified many result on the ground: (value) == -1 place anywhere in the groun

```
----- SceneData.c - START -----
class SceneData
■protected string m_NameScene;
■protected string ■ m_NameMission;
■protected float ■m_InitTime;
■protected int ■■m_DateInitYear;
■protected int■m_DateInitMonth;
□protected int■m_DateInitDay;
■protected int■m_DateInitHour;
■protected int■■m_DateInitMinute;
■protected float ■m_WeaterInitOvercast;
■protected float ■m_WeaterInitRain;
■protected float ■m_WeaterInitFog;
■protected float ■m_WeaterInitWindForce;
■protected ref array<ref SceneObject>■m_Objects;
■protected ref array<ref ScenePlayer>■m Players:
■protected ref array<ref SceneObject>■m_AllObjs;
■// Constructor -> SceneData
■void SceneData()
•{
m_Objects = new array<ref SceneObject>;
■■m_Players = new array<ref ScenePlayer>;
m_AllObjs = new array<ref SceneObject>;
■}
■// GetSceneObjects
■array<ref SceneObject> GetSceneObjects()
■■return m_Objects;
■}
■// GetScenePlayers
■array<ref ScenePlayer> GetScenePlayers()
■ return m_Players;
■// GetSceneObjectsAll
■array<ref SceneObject> GetSceneObjectsAll()
array<ref ScenePlayer> scene_players = GetScenePlayers();
■■array<ref SceneObject> scene_object = GetSceneObjects();
■■m_AllObjs.Clear();
■■foreach (auto p: scene_players)
```

■■m AllOhis Insert(n):

```
// ----- SceneEditorMenu.c - START ------
class SceneEditorMenu extends UIScriptedMenu
// >> Public Scope
■static const int POPUP_ID_SCENE_MANAGER■■= 0;
■static const int POPUP_ID_SCENE_SETTINGS■= 1;
■ static const int POPUP_ID_SCENE_NEW ■ = 2; ■ static const int POPUP_ID_SCENE_RENAME ■ = 3;
■static const int POPUP_ID_SCENE_DELETE■ = 4;
■static const int POPUP_ID_NOTIFY■■= 5;
■ static const int POPUP_ID_EDITOR_SETTINGS = 6; ■ static const int POPUP_ID_INIT_SCRIPT = 7;
■static const int POPUP_ID_POSITION_MANAGER■■= 8;
■static const int POPUP_ID_PRESET_NEW = 9;
■static const int POPUP_ID_PRESET_RENAME = 10;
■static const int POPUP_ID_CONFIGS = 11;
■const string CONST_DEFAULT_PRESET_PREFIX = "[Default]":
■// Render specific Preset Items
■void RenderPresets()
■ m_PresetsTextListbox.ClearItems();
■■int i;
■■TBoolArray preset_params;
■■// load fixed presets list
■■TStringArray presets_array = m_ConfigDebugProfileFixed.GetPresets();
■■for (i = 0; i < presets_array.Count(); i++)
■■■m_PresetsTextListbox.AddItem( "["+presets_array.Get(i)+"]", new PresetParams ( presets_array.Get
■■}
■■// load custom presets list
■■TStringArray custom_presets_array = m_ConfigDebugProfile.GetPresets();
■■for ( i = 0; i < custom_presets_array.Count(); i++)
PresetsTextListbox.AddItem( custom_presets_array.Get(i), new PresetParams ( custom_presets_
■■string default_preset = m_ConfigDebugProfile.GetDefaultPreset();
■■if ( default_preset != "" )
■■■// if is fixed
■■■int index = GetPresetIndexByName( default_preset );
■■■if (IsPresetFixed(default_preset))
■■■default_preset = "[" + default_preset + "]";
■■■PresetParams preset_params_array;
■■■if( index > -1 && index < m_PresetsTextListbox.GetNumItems() )
PresetsTextListbox.GetItemData(index, 0, preset_params_array);
■■■■m_PresetsTextListbox.SetItem(index, default_preset + CONST_DEFAULT_PRESET_PREFIX, pre
■■■}
}
```

```
class SceneObject
■static const int ■COLOR_OBJ_BBOX_NORMAL ■= 0x000000000;
■static const int ■COLOR_OBJ_BBOX_SELECT = 0x1f007C00;
■protected EntityAl■■■■■m_ObjectPtr;
■protected Shape■■■■■■■■■ DebugShapeBBox;
■protected string■■■■■■m_InitScript;
protected string
protected string
protected string
protected string
■protected string■■■■■■■m_ObjectNameOrigin;
■protected ref array<SceneObject>■■m_LinkedSceneObjects;
■protected ref map<SceneObject, Shape>■m_LinkedSceneObjectsShapes;
■ref array<int>■■■■■■■■■■LinkedSceneObjectsIndices;
■// SceneObject
■SceneObject Init(string obj_name, vector pos)
■■if (obj_name != STRING_EMPTY)
■■■m_ObjectNameOrigin = obj_name;
■■■bool is_ai = GetGame().lsKindOf(obj_name, "DZ_LightAl");
■■■PluginDeveloper module_dev = PluginDeveloper.Cast(GetPlugin(PluginDeveloper));
■■■EntityAl e = module_dev.SpawnEntityOnGroundPos(PluginSceneManager.PLAYER, obj_name, 100,
■■■if (e != NULL)
■■■if (e.IsInherited(ItemBase))
■■■■ItemBase item = ItemBase.Cast(e);
■■■■if (item.HasQuantity())
■■■■■item.SetQuantity(item.GetQuantityMax());
■■■■}
■■■■m_ObjectName = e.GetType();
■■■LinkEntityAl(e);
■■■else if (obj_name != "player")
■■■return NULL;
---
}
m_LinkedSceneObjects = new array<SceneObject>;
■■m_LinkedSceneObjectsShapes = new map<SceneObject, Shape>;
■■m_LinkedSceneObjectsIndices = new array<int>;
■ return this;
■}
```

■// GetObject

```
// ----- ScenePlayer.c - START ------
class ScenePlayer extends SceneObject
■//-----
■// IsPlayer
■//-----
■override bool IsPlayer()
■ return true;
// -----
// ----- ScenePlayer.c - END -----
// ----- Scout.c - START -----
// -----
class Scout_Base : BoltActionRifle_ExternalMagazine_Base
■override RecoilBase SpawnRecoilObject()
■ return new ScoutRecoil(this);
■//Debug menu Spawn Ground Special■override void OnDebugSpawn()
■■super.OnDebugSpawn();
■■GetInventory().CreateAttachment("ACOGOptic");
■}
};
// ----- Scout.c - END -----
// -----
// ----- ScoutRecoil.c - START ------//
class ScoutRecoil: RecoilBase
■override void Init()
■■vector point_1;
■■vector point_2;
■■vector point_3;
■■vector point_4;
```

■■point 1[0] – m. Player GetRandomGeneratorSyncManager() GetRandomInRange(RandomGeneratorS

```
// ----- Screwdriver.c - START -----
class Screwdriver extends ToolBase
■void Screwdriver()
■ m_MineDisarmRate = 80;
■override bool IsMeleeFinisher()
■ return true;
■override array<int> GetValidFinishers()
■ return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
override void SetActions()
■■super.SetActions();
■■AddAction(ActionBurnSewTarget);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionBurnSewSelf);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionSkinning);
■■AddAction(ActionLockAttachment);
■■AddAction(ActionDisarmMine);
■■AddAction(ActionDisarmExplosive);
■■AddAction(ActionMineRock1H);
■}
// -----
// ----- Screwdriver.c - END -----
// ----- script.c - START -----
//some example "reference" variables for use in material editor
reference float g_testVariable1;
reference float g_testVariable2;
reference float g_testVariable3;
class TestClass
■//some example "reference" variables for use in material editor
■reference float testVar1;
■reference float testVar2;
■reference float testVar3;
```

```
// ----- ScriptAnalytics.c - START -----
// class binded to engine
class StatsEventMeasuresData
■string m_CharacterId;■■//!< character ID
■int m_TimeInterval;■■■//!< amount of real time in seconds covered by this event
■int m_DaytimeHour;■■■//!< current daytime in gameplay (hour in 24h format)
■vector m_PositionStart;■■//!< player world position at the start of interval
■vector m_PositionEnd; ■ //! < player world position at the end of interval
■float m_DistanceOnFoot;■■//!< traveled distance on foot (meters) during interval
■float m_DistanceVehicle; ■//!< traveled distance (meters) in vehicle during interval
■float m_TimeVONIn;■■■//!< amount of time in seconds with inbound VON during interval
■float m_TimeVONOut;■■■//!< amount of time in seconds with outbound VON during interval
■int m_CntLootAny;■■■//!< count of any loot collected during interval
■int m_CntLootFood;■■■//!< count of any food or consumables collected during interval
■int m_CntLootCloth;■■■//!< count of cloth collected during interval
■int m_CntLootFirearm;■■//!< count of firearms collected during interval
■int m_CntLootAmmo;■■■//!< count of ammo collected during interval
■int m_CntKillInfected;■■//!< count of infected kills during interval
■int m_CntConsumedFood;■■//!< count of consumed food during interval
■int m_CntConsumedWater;■■//!< count of consumed water during interval</p>
■int m_HealthRestored;■■//!< number of health point restored during interval
■int m_CntFiredAmmo;■■■//!< firearm rounds fired during interval
■int m_CntCraftedItem;■■//!< number of items crafted during interval
■// listStatus
■■■// state metric of health, hunger, thirst, etc... when event is created/send
■int m_HealthStatus;■■■//!< state of health (current state)
■int m_BloodStatus;■■■//!< state of blood (current state)
■int m_SicknessStatus;■■//!< state of sickness (current state)
■int m_TemperatureStatus;■//!< state of temperature (current state)
■int m_FoodStatus;■■■//!< state of food (hunger) (current state)
■int m_HydrationStatus;■■//!< state of hydration (thirst) (current state)
// class binded to engine
class StatsEventDeathData
■string■■m_CharacterId;■■■//!< character ID
■int■■m_CharacterLifetime; ■//!< lifetime of character in seconds
■string■■m_Cause;■■■■//!< cause of death (hunger, sickness, player-killed, zombie-killed...)
■string■■m_WeaponName;■■■//!< name of weapon which caused death
■float■■m_Distance;■■■■//!< distance in meters (rounded) from spawn position to death position
■vector■■m_Position;■■■■//!< position of player when died
■int■■■m_ListDamages[5];■■//!< list of damages (5 values) during last n sec. For example: {20, 80, 0, 0
// class binded to engine
class StatsEventScoredKillData
■string■■m_CharacterId;■■//!< character ID
■string■■m_WeaponName;■■//!< name of weapon which killed player (victim)
■int■■■m_KillDistance;■■//!< distance in meters (rounded) between killer and victim
■vector■■m_PositionKiller;■//!< position of killer
■vector■■m_PositionVictim; ■//!< position of victim
```

// class hinded to engine

```
// ----- ScriptCamera.c - START ------
#ifdef GAME_TEMPLATE
[EditorAttribute("box", "GameLib/Scripted", "Script camera", "-0.25 -0.25 -0.25", "0.25 0.25 0.25", "255 0 0
class ScriptCameraClass
}
ScriptCameraClass ScriptCameraSource;
class ScriptCamera: GenericEntity
■[Attribute("60", "slider", "Field of view", "0 180 1")]
■float FOV:
■[Attribute("1", "editbox", "Near plane clip")]
■float NearPlane;
■[Attribute("4000", "editbox", "Far plane clip")]
■float FarPlane:
■[Attribute("1", "combobox", "Projection type", "", ParamEnumArray.FromEnum(CameraType))]
■int Type;
■[Attribute("5", "slider", "Camera speed", "0 20 1")]
■float Speed:
■[Attribute("1", "combobox", "Free Fly", "", ParamEnumArray.FromEnum(EBool))]
■bool FreeFly;
■[Attribute("0", "combobox", "Invert vertical", "", ParamEnumArray.FromEnum(EBool) )]
■bool Inverted;
■[Attribute("0", "slider", "Camera index", "0 31 1")]
■int Index:
■float m_MouseSensitivity = 0.001; // should be somewhere else.
■float m_GamepadSensitivity = 0.2; // should be somewhere else.
■int m_GamepadFreeFly;
■// debug variables
■int m_DbgListSelection = 0;
■ref array<string> m_DbgOptions = {"Perspective", "Orthographic"};
■void ScriptCamera(IEntitySource src, IEntity parent)
■■SetFlags(EntityFlags.ACTIVE, false);
■■SetEventMask(EntityEvent.FRAME);
■■SetCameraVerticalFOV(Index, FOV);
■■SetCameraFarPlane(Index, FarPlane);
■■SetCameraNearPlane(Index, NearPlane);
■■SetCameraType(Index, Type);
■■m_DbgListSelection = Type - 1;
■■SetCamera(Index, GetOrigin(), GetYawPitchRoll());
■■vector camMat[4];
■■GetTransform(camMat);
■■SetCameraEx(Index, camMat);
■■m_GamepadFreeFly = FreeFly;
|
■override protected void EOnFrame(IEntity other, float timeSlice) //EntityEvent.FRAME
```

■■GetGame() GetInnutManager() ActivateContext("ScriptCameraContext"):

```
// ----- ScriptConsole.c - START ------
typedef Param3<string, bool, bool> PresetParams;// param1 - ??, param2 - ??, param3 - ??
typedef Param5<bool, string, int, string, int> ConfigParams; // param1 - isCollapsed, param2 - string name
typedef Param6<bool, string, int, string, int, string> ConfigParamsEx; // param1 - isCollapsed, param2 - str
class ScriptConsole extends UIScriptedMenu
■static ScriptConsole m_This;
■static EffectSound ■■■m_SoundSet;
■static ref ConfigParamsEx m_ConfigData;
■const string DEFAULT_POS_XYZ = "<1,2,3>";
■protected ref map<CheckBoxWidget, int>■m_ClassCheckboxes = new map<CheckBoxWidget, int>;
■vector m_MapPos;
■bool m_PlayerPosRefreshBlocked;
■const string CONST_DEFAULT_PRESET_PREFIX = "[Default]";
■static float DEBUG_MAP_ZOOM = 1;
■static int ITEMS_SELECTED_ROW = -1;
■static int PRESETS_SELECTED_ROW = 0;
■static int ITEMS_IN_PRESET_SELECTED_ROW;
■static int m_ObjectsScope = 2;
■static bool SHOW_OTHERS = 0;
■static bool CLEAR_IVN;
■static float DRAW DISTANCE = 1000:
■static ref array<Shape> m_DebugShapes = new array<Shape>;
■static EntityAl m_PreviewEntity;
■ref array<Object> m_VicinityItems = new array<Object>;
■Widget m_WgtClassesConfig;
■int m_RunColor;
■ref TStringArray m_BaseConfigClasses = new TStringArray;
■ref TStringArray m_BaseConfigClassesToggled = new TStringArray;
■PluginItemDiagnostic m_ItemDisagPlugin;
■ref array<Widget> m_CategoryButtonsWidgets = new array<Widget>;
■ref array<string> m_CategoryButtonsNames = {"FIREARMS","MELEE","ATTACHMENTS","MAGAZINES
■SliderWidget m_TimeSlider;
■ref Timer m_LateInit = new Timer();
■bool m_ScriptServer;
■bool m_UpdateMap;
■int m_CategoryMask;
■bool m FilterOrderReversed:
■bool m_AllowScriptOutput;
■static ref TStringArray m_ScriptOutputHistory = new TStringArray();
■ref Timer m_RefreshFilterTimer = new Timer();
■void ScriptConsole()
■{
\blacksquare m_This = this;
■■m_ModuleLocalEnscriptHistory ■= PluginLocalEnscriptHistory.Cast(GetPlugin(PluginLocalEnscriptHistory.
■■m_ModuleLocalEnscriptHistoryServer ■= PluginLocalEnscriptHistoryServer.Cast(GetPlugin(PluginLoc
■#ifndef SERVER
■■if (GetGame() && GetGame().GetMission() && GetGame().GetMission().GetHud())
■■GetGame().GetMission().GetHud().ShowHudPlayer(false);
■■■GetGame().GetMission().GetHud().ShowQuickbarPlayer(false);
■#endif
```

```
// ----- ScriptConsoleAddPosition.c - START ------
class ScriptConsoleAddLocation extends UIScriptedMenu
■void ScriptConsoleAddLocation()
■void ~ScriptConsoleAddLocation()
|
■void SetPosition(vector pos)
■■m_EditboxPos.SetText(pos.ToString());
■override Widget Init()
■■ ConfigDebugProfile = PluginConfigDebugProfile.Cast( GetPlugin(PluginConfigDebugProfile) );
■■ layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/script_console/script_console_a
■■ m_EditboxName = EditBoxWidget.Cast( layoutRoot.FindAnyWidget("LocationName") );
■■m_EditboxPos = EditBoxWidget.Cast( layoutRoot.FindAnyWidget("Position") );
■■m_Label = TextWidget.Cast( layoutRoot.FindAnyWidget("WindowLabel") );
■■m_ClearButton = ButtonWidget.Cast( layoutRoot.FindAnyWidget("ButtonClear") );
■■m_Label.SetText("ADD NEW LOCATION");
■■return layoutRoot;
■}
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
■■if (w.GetUserID() == IDC_OK)
{
■■■string name = m_EditboxName.GetText();
■■■m_ConfigDebugProfile.CustomLocationsAdd(name, m_EditboxPos.GetText().BeautifiedToVector());
■■■Close();
■■console.RefreshLocations();
■■return true;
■■else if (w.GetUserID() == IDC_CANCEL)
■■■Close();
■■return true;
■■else if (w == m_ClearButton)
 ■■■m_EditboxPos.SetText("");
■■■return true;
```

■ return false:

```
// ----- ScriptConsoleNewPresetDialog.c - START ------
class ScriptConsoleNewPresetDialog extends UIScriptedMenu
■void ScriptConsoleNewPresetDialog()
■void ~ScriptConsoleNewPresetDialog()
■override Widget Init()
■■ layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/script_console/script_console_d
■■ m_Editbox = EditBoxWidget.Cast( layoutRoot.FindAnyWidget("PrimaryEditBox") );
■■ m_Label = TextWidget.Cast( layoutRoot.FindAnyWidget("WindowLabel") );
■■m_Label.SetText("NEW PRÈSÉT");
■■return layoutRoot;
■override bool OnClick(Widget w, int x, int y, int button)
■ super.OnClick(w, x, y, button);
■■if (w.GetUserID() == IDC_OK)
■■■UIScriptedMenu ui_menu = GetGame().GetUIManager().FindMenu(MENU_SCRIPTCONSOLE);
■■■if ( ui_menu != NULL && m_Editbox.GetText() )
 ■■■ScriptConsole scripted_console = ScriptConsole.Cast( ui_menu );
■■■scripted_console.NewPreset( m_Editbox.GetText());
■■■}
■■■Close();
■■■return true;
■■else if (w.GetUserID() == IDC_CANCEL)
■■■Close();
■■return true;
■■return false;
■EditBoxWidget m_Editbox;
■TextWidget m_Label;
■TextWidget m_Message;
// ----- ScriptConsoleNewPresetDialog.c - END ------
```

```
----- ScriptConsoleRenamePresetDialog.c - START ------
class ScriptConsoleRenamePresetDialog extends UIScriptedMenu
■void ScriptConsoleRenamePresetDialog()
■void ~ScriptConsoleRenamePresetDialog()
■override Widget Init()
■■layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/script_console/script_console_d
■■m_Editbox = EditBoxWidget.Cast( layoutRoot.FindAnyWidget("PrimaryEditBox") );
■■m_Label = TextWidget.Cast( layoutRoot.FindAnyWidget("WindowLabel") );
■■m_Message = TextWidget.Cast( layoutRoot.FindAnyWidget("MessageText") );
■■MissionBase mission = MissionBase.Cast( GetGame().GetMission() );
■■UIScriptedMenu ui_menu = GetGame().GetUIManager().FindMenu(MENU_SCRIPTCONSOLE);
■■if ( ui_menu != NULL )
ScriptConsole scripted_console = ScriptConsole.Cast( ui_menu );
■■■m_Editbox.SetText( scripted_console.GetCurrentPresetName() );
■■■m_Label.SetText("RENAME PRESET");
■■■m_Message.SetText( scripted_console.GetCurrentPresetName() );
■■}
■■return layoutRoot;
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
■■if (w.GetUserID() == IDC_OK)
 ■■■UIScriptedMenu ui_menu = GetGame().GetUIManager().FindMenu(MENU_SCRIPTCONSOLE);
■■■if ( ui_menu != NULL )
■■■ScriptConsole scripted_console = ScriptConsole.Cast( ui_menu );
■■■scripted_console.RenamePreset( m_Editbox.GetText() );
■■■■Close();
■■■return true;
■■else if (w.GetUserID() == IDC_CANCEL)
■■■Close();
■■return true:
■return false;
```

■EditRoyWidget m Edithoy:

```
// ----- ScriptedEntity.c - START ------
enum TriggerShape
■BOX,
■SPHERE
■CYLINDER,
class ScriptedEntity extends EntityAl
■\brief Sets collision properties for object
■■\param mins \p vector Min values of box
■■\param maxs \p vector Max values of box
■■\param radius \p float Radius of bounding sphere
■■\note This function is obsolete, use rather SetCollisionBox()
proto native void SetClippingInfo(vector mins, vector maxs, float radius);
/**
■\brief Sets collision box for object
■■\param mins \p vector Min values of box
param maxs \p vector Max values of box
■■\note Automatically sets TriggerShape.BOX
■■\n usage:
■■@code
■■■vector mins = "-1 -1 -1";
■■■vector maxs = "1 1 1";
■■SetCollisionBox(mins, maxs);
■■@endcode
*/
■proto native void SetCollisionBox(vector mins, vector maxs);
/**
■\brief Sets collision sphere for object
■■\param radius \p float Radius of cylinder
■■\note Automatically sets TriggerShape.SPHERE
■■\n usage:
■■@code
■■SetCollisionSphere(3);
■■@endcode
■proto native void SetCollisionSphere(float radius);
/**
■\brief Sets collision cylinder for object
■■\param radius \p float Radius of cylinder
■■\param height \p float Height of cylinder
■■\note Automatically sets TriggerShape.CYLINDER
■■\n usage:
■■@code
■■SetCollisionCylinder(3, 6);
■■@endcode
*/
■proto native void SetCollisionCylinder(float radius, float height);
■//! Set the TriggerShape to be used, default is TriggerShape.BOX
```

■proto native void SetTriggerShape(TriggerShape shape);

```
// ----- ScriptedLightBase.c - START ------
Please remember that:
-Lights work only on client side!
-Lights with Brightness or Radius of 0 (or less) are automatically deleted
-Lights are very performance heavy. Especially if they cast shadows. Use them carefully!
Script author: Boris Vacula
class ScriptedLightBase extends EntityLightSource
■float ■■m_LifetimeStart;
■float ■■m_LifetimeEnd = -1; // -1 makes this light permanent
■float ■■m_FadeOutTime = -1;
■float ■■m_FadeInTime = -1;
■float ■■m_Radius;
■float ■■m_RadiusTarget;
■float ■■m_Brightness;
■float ■■m_BrightnessPulse; // flicker effect
■float ■■m_BrightnessPulseSpeed;
■float ■■m_BrightnessPulseAmplitudeMax;
■float ■■m_BrightnessPulseAmplitudeMin;
■float ■■m_BrightnessTarget;
■float ■■m_BrightnessSpeedOfChange = 1;
■float ■■m_RadiusSpeedOfChange = 1;
■float ■■m_OptimizeShadowsRadius = 0; // Within this range between the light source and camera the sl
■float ■■m_DancingShadowsAmplitude;
■float ■■m_DancingShadowsSpeed;
■float■■m_BlinkingSpeed;
■bool ■■m_lsDebugEnabled = false;
■Object ■■m_Parent; // Attachment parent
■vector ■■m_LocalPos; // Local position to my attachment parent
■vector ■■m_LocalOri; // Local orientation to my attachment parent
■vector ■■m_DancingShadowsLocalPos;
■ref Timer ■m_DeleteTimer;
■static ref set<ScriptedLightBase> m_NightTimeOnlyLights = new set<ScriptedLightBase>();
■//! Constructor. Everything here is executed before the constructor of all children.
■void ScriptedLightBase()
■■m_LifetimeStart = GetGame().GetTime();
■■SetEnabled(true);
■■SetEventMask(EntityEvent.FRAME);
■■SetEventMask(EntityEvent.INIT);
■void ~ScriptedLightBase()
■■if (m_NightTimeOnlyLights)
■■int index = m_NightTimeOnlyLights.Find(this);
```

■■if (index !- -1)

```
class ScriptInvokerTests: TestFramework
■ref ScriptInvoker m_Invoker;
■int m_InvokeCount;
■// Ctor - Decides the tests to run
■//-----
■void ScriptInvokerTests()
■ Invoker = new ScriptInvoker():
■■//AddInitTest("TestFirstUnique");
•}
I//-----
■// Dtor
I//-----
■void ~ScriptInvokerTests()
•}
■//-----
■// Tests
■// Test first insert flagged as unique
■TFResult TestFirstUnique()
•{
■■InvokeReset();
■■bool insert1 = m_Invoker.Insert(InvokeLog, EScriptInvokerInsertFlags.UNIQUE);
■■Assert(insert1):
■■bool insert2 = m_Invoker.Insert(InvokeLog);
■■Assert(!insert2);
■■m_Invoker.Invoke("TestFirstUnique");
■■bool count = Assert(m_InvokeCount == 1);
■■InvokeReset();
■■return BTFR(insert1 && !insert2 && count);
■// Test second insert flagged as unique
■TFResult TestSecondUnique()
■InvokeReset();
■■bool insert1 = m_Invoker.Insert(InvokeLog);
```

■■Assert(insert1).

```
// ----- ScriptLight.c - START -----
#ifdef GAME_TEMPLATE
[EditorAttribute("box", "GameLib/Scripted", "Script light", "-0.25 -0.25 -0.25", "0.25 0.25", "255 0 0 255
class ScriptLightClass
}
ScriptLightClass ScriptLightSource;
class ScriptLight: GenericEntity
■[Attribute("1", "flags", "Flags", "", { ParamEnum("Point", "1"), ParamEnum("Spot", "2"), ParamEnum("Dire
■int Flags;
■[Attribute("1", "combobox", "Type", "", { ParamEnum("Point", "1"), ParamEnum("Spot", "2"), ParamEnum
■int Type;
■[Attribute("1", "editbox", "Radius", "", NULL)]
■float Radius;

■[Attribute("1 1 1", "color", "Color", "", NULL)]
■vector Color;
■[Attribute("1", "editbox", "Intensity", "", NULL)]
■float Intensity;
■HLIGHT m_light;
■void ScriptLight(IEntitySource src, IEntity parent)
■■//SetFlags(this, EntityFlags.ACTIVE | EntityFlags.SOLID | EntityFlags.VISIBLE);
■■m_light = AddLight(this, LightType.POINT, LightFlags.DYNAMIC|LightFlags.CASTSHADOW, Radius, (
■void ~ScriptLight()
■if(m_light)
■■■RemoveLight(m_light);
==}
|
#endif
// ----- ScriptLight.c - END -----
// ----- ScriptModel.c - START -----
#ifdef GAME_TEMPLATE
[EditorAttribute("box", "GameLib/Scripted", "Script model", "-0.25 -0.25 -0.25", "0.25 0.25 0.25", "255 0 0 2
class ScriptModelClass
```

```
// ----- ScrollBarContainer.c - START ------
class ScrollBarContainer: ScriptedWidgetEventHandler
■reference bool Invert:
■protected Widget Content;
■protected Widget ScrollBar;
■protected Widget Scroller;
■protected Widget m_root;
■const int WHEEL_STEP = 20;
■protected float■■m root height;
■protected float■m_content_height;
■protected float■m_position;
■protected bool ■ m_scrolling;
■protected float■m_scrolling_start_pos;
■protected int■m_scrolling_mouse_pos;
■void ~ScrollBarContainer()
■■//if(GetGame() != NULL)
■■//GetGame().GetDragQueue().RemoveCalls(this);
■void ScrollFixedAmount( bool down, float amount )
■■m_root.Update();
■■Content.Update();
■Ifloat width:
m_root.GetScreenSize(width, m_root_height);
■■Content.GetScreenSize(width, m_content_height);
■■float diff = m_root_height / m_content_height;
■■float one_percent = diff / 100;
■■float percents = amount / m content height;
■■//float step = (1.0 / (m_content_height - m_root_height)) * WHEEL_STEP;
\blacksquarefloat step = (percents/100);
■if(down)
\blacksquarem_position += 1 * ( percents + 0.05 );
■■else
\blacksquarem_position -= 1 * ( percents + 0.05 );
\blacksquare if (m_position < 0) m_position = 0;
■■if (m_position > 1 - diff) m_position = 1 - diff;
■■UpdateScroller();
•}
■void ScrollToPos( float pos )
■m_root.Update();
■■Content.Update();
■Ifloat width:
■■m_root.GetScreenSize(width, m_root_height);
■■Content.GetScreenSize(width, m_content_height);
■■float diff = m_root_height / m_content_height;
```

■■float percents - pos / m_content_height·

```
// ----- Sedan 02.c - START ------
class Sedan_02 extends CarScript
■protected ref UniversalTemperatureSource m_UTSource;
■protected ref UniversalTemperatureSourceSettings m_UTSSettings:
■protected ref UniversalTemperatureSourceLambdaEngine m_UTŠLEngine;
■void Sedan_02()
\blacksquare//m_dmgContactCoef\blacksquare= 0.130;
■■m_EngineStartOK■■= "Sedan_02_engine_start_SoundSet";
■ m_EngineStartBattery = "Sedan_02_engine_failed_start_battery_SoundSet";
■■m_EngineStartPlug■■= "Sedan_02_engine_failed_start_sparkplugs_SoundSet";
■■m_EngineStartFuel■■= "Sedan_02_engine_failed_start_fuel_SoundSet";
■■m_EngineStopFuel■■= "offroad_engine_stop_fuel_SoundSet";
■■m CarDoorOpenSound■■= "offroad door open SoundSet":
■■m_CarDoorCloseSound■■= "offroad_door_close_SoundSet";
m_CarHornShortSoundName = "Sedan_02_Horn_Short_SoundSet";
■■m_CarHornLongSoundName■= "Sedan_02_Horn_SoundSet";
■■SetEnginePos("0 0.7 -1.7");
■}
■override void EEInit()
■■super.EEInit();
■■if (GetGame().IsServer() | !GetGame().IsMultiplayer())
■■■m_UTSSettings ■■■■■ new UniversalTemperatureSourceSettings();
■■■m_UTSSettings.m_ManualUpdate ■= true;
■■■m_UTSSettings.m_TemperatureMin■= 0;
■■m_UTSSettings.m_TemperatureMax■= 30;
■■■m_UTSSettings.m_RangeFull■■= 0.5;
■■■m_UTSSettings.m_RangeMax■■= 2;
■■■m_UTSSettings.m_TemperatureCap■= 25;
■■■m_UTSLEngine■■■■■= new UniversalTemperatureSourceLambdaEngine();
■■■ UTSource ■■■■■■ new UniversalTemperatureSource(this, m_UTSSettings, m_UTSLEngine);
---}
|
■override void OnEngineStart()
■■super.OnEngineStart();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■m_UTSource.SetDefferedActive(true, 20.0);
■■}
■}
■override void OnEngineStop()
```

■■super.OnEngineStop();

```
// ----- Sedan_02FrontLight.c - START ------
class Sedan_02FrontLight extends CarLightBase
■void Sedan_02FrontLight()
■{
■■m_SegregatedBrightness = 4;
■■m_SegregatedRadius = 75;
■■m_SegregatedAngle = 90;
\blacksquarem_SegregatedColorRGB = Vector(0.95, 0.95, 0.78);
■■m_AggregatedBrightness = 8;
■■m_AggregatedRadius = 100;
■■m_AggregatedAngle = 120;
■ MagregatedColorRGB = Vector(0.95, 0.95, 0.78);
\blacksquareFadeIn(0.1);
■■SetFadeOutTime(0.05);
■■SegregateLight();
// ----- Sedan_02FrontLight.c - END ------//
// ----- Sedan_02RearLight.c - START ------
// -----
class Sedan_02RearLight extends CarRearLightBase
■void Sedan_02RearLight()
■■// Brake light only
■■m_SegregatedBrakeBrightness = 5;
■■m SegregatedBrakeRadius = 6:
■■m_SegregatedBrakeAngle = 160;
■ SegregatedBrakeColorRGB = Vector(0.95, 0.16, 0.05);
■■// Reverse light only
■■m_SegregatedBrightness = 2;
■■m_SegregatedRadius = 10;
■■m_SegregatedAngle = 120;
\blacksquarem_SegregatedColorRGB = Vector(0.80, 0.85, 0.9);
■■// Brake & Revese lights combined
■■m_AggregatedBrightness = 5;
■■m_AggregatedRadius = 10;
■■m_AggregatedAngle = 160;
\blacksquarem_AggregatedColorRGB = Vector(0.9, 0.4, 0.5);
\blacksquareFadeIn(0.1);
■■SetFadeOutTime(0.05);
```

■■Set\/isibleDuringDaylight/false\-

```
----- SeedPackBase.c - START ------
class SeedPackBase extends Inventory_Base
■private static const float PACK_DAMAGE_TOLERANCE = 0.5;
■void SeedPackBase()
{
■}
■void EmptySeedPack( PlayerBase player )
[
■■string pack_type = GetType();
string seeds_type = "";
■■GetGame().ConfigGetText( "cfgVehicles " + pack_type + " Horticulture ContainsSeedsType", seeds_ty
 ■■int seeds_quantity_max = GetGame().ConfigGetInt( "cfgVehicles " + pack_type + " Horticulture Contair
■■int seeds_quantity = seeds_quantity_max;
■■seeds_quantity = Math.Round( seeds_quantity_max * GetHealth01("","") );
■■if (seeds_quantity < 1)
■■■seeds_quantity = 1;
==}
■If (player)
EmptySeedsPackLambda lambda = new EmptySeedsPackLambda(this, seeds_type, player, seeds_type, s
■■■player.ServerReplaceItemInHandsWithNew(lambda);
■■}
■■else
■■ vector pos = GetPosition();
■■■GetGame().CreateObjectÉx(seeds_type, pos, ECE_PLACE_ON_SURFACE);
■■■GetGame().ObjectDelete(this);
——}
■}
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionEmptySeedsPack);
■}
class EmptySeedsPackLambda: ReplaceItemWithNewLambdaBase
■int m_ItemCount;
■void EmptySeedsPackLambda (EntityAl old_item, string new_item_type, PlayerBase player, int count)
■m_ItemCount = count;
■override void CopyOldPropertiesToNew (notnull EntityAl old_item, EntityAl new_item)
```

```
----- SensesAlEvaluate.c - START ------
class NoiseAlEvaluate
■static float SURFACE_NOISE_WEIGHT = 0.25;
■static float GetNoiseMultiplier(DayZPlayerImplement playerImplement)
■■float speedNoise■= GetNoiseMultiplierByPlayerSpeed(playerImplement);
■■float shoesNoise■= GetNoiseMultiplierByShoes(playerlimplement);
■■float surfaceNoise■= GetNoiseMultiplierBySurface(playerImplement);
■■surfaceNoise ■■*= SURFACE NOISE WEIGHT:
■■float avgNoise ■■= (shoesNoise + surfaceNoise)/(1 + SURFACE NOISE WEIGHT):
■■avgNoise ■■■*= speedNoise:
■■return avgNoise;
■}
//Noise multiplier based on player speed
■static float GetNoiseMultiplierByPlayerSpeed(DayZPlayerImplement playerImplement)
■■HumanMovementState hms = new HumanMovementState();
playerImplement.GetMovementState(hms);
■■if ( playerImplement.GetCommand_Move() && playerImplement.GetCommand_Move().IsInRoll() )
■■■// When rolling we are prone, so we load that Noise value, hence we multiply
■■return PlayerConstants.Al NOISE ROLL;
||
■■switch ( AITargetCallbacksPlayer.StanceToMovementIdxTranslation(hms) )
■■ case DayZPlayerConstants.MOVEMENTIDX_IDLE:
■■■return PlayerConstants.AI_NOISE_IDLE;
■■■case DayZPlayerConstants.MOVEMENTIDX_WALK:
■■■return PlayerConstants.AI_NOISE_WALK;
■■■case DayZPlayerConstants.MOVEMENTIDX_CROUCH RUN:
■■■return PlayerConstants.AI_NOISE_CROUCH_RUN;
■■■case DayZPlayerConstants.MOVEMENTIDX_RUN:
■■■return PlayerConstants.Al_NOISE_RUN;
■■ case DayZPlayerConstants.MOVEMENTIDX_SPRINT:
■■■return PlayerConstants.AI_NOISE_SPRINT;
——}
■■//Default return
■■return PlayerConstants.Al NOISE SPRINT;
■//Noise multiplier based on type of boots
■static float GetNoiseMultiplierByShoes(DayZPlayerImplement playerImplement)
■ switch (playerImplement.GetBootsType())
```

```
// ----- Serializer.c - START -----
\brief Serialization general interface. Serializer API works with:
■- primitive types: int, float, string, bool, vector
■- dynamic containers: array, set, map
static arrays
■- complex types: classes
\note Serializer provides deep serialization (it serialize class memebers and their members etc). To avoid
 @code
■class MyData
[
■■int m_id;
■■autoptr map<string, float> m_values;
■■[NonSerialized()]
■■string m_dbg; // I don't want to serialize this variable
■void Serialize(Serializer s)
\blacksquareint statArray[4] = {6,9,2,3};
\blacksquarearray<int> dynArray = {8,5,6,4};
■■autoptr MyData data = new MyData();
\blacksquare data.m_id = 965;
■■data.m_values = map<string, float>;
■■data.m_values.Insert("value1", 5.98);
■■data.m_values.Insert("value2", 4.36);
■■s.Write(10);
■■s.Write("Hello");
■■s.Write(statArray);
■■s.Write(dynArray);
■■s.Write(data);
■}
■void Deserialize(Serializer s)
■■int statArray[4];
■■array<int> dynArray;
■■MyData data;
■Int someInt;
■■string someString;■
■■s.Read(someInt);
■■s.Read(someString);
■■s.Read(statArray);
■■s.Read(dynArray);
■■s.Read(data);
@endcode
class Serializer: Managed
proto bool Write(void value_out);
```

■nroto hool Read(void value, in)

```
// ----- ServerBrowserEntry.c - START ------
class ServerBrowserEntry extends ScriptedWidgetEventHandler
■protected Widget■■■■m_Root;
■protected Widget■■■■m_Favorite;
■protected Widget■■■■m_Expand;
■//Basic info
■protected TextWidget■■■m_ServerName;
■protected TextWidget■■■m_ServerPopulation;
■protected TextWidget■■■m_ServerSlots;
■protected TextWidget■■■m_ServerPing;
■protected ImageWidget■■■m_ServerTime;
■protected ImageWidget■■■m_ServerLock;
■protected ImageWidget■■■m_ServerModIcon;
■protected ImageWidget■■■m_ServerMaKIcon;
■//Detailed info
■protected TextWidget■■■m_ServerShard;
■protected TextWidget■■■m_ServerCharacterAlive;
■protected TextWidget■■■m_ServerFriends;
■protected TextWidget■■■m_ServerMode;
■ protected TextWidget■■■■ ServerBattleye; ■ protected TextWidget■■■■ ServerIP;
■protected TextWidget■■■m_ServerAcceleration;
■protected TextWidget■■■m_ServerMap;
■protected TextWidget■■■m_ServerMods;
■protected ButtonWidget■■■m_ServerModsExpand;
■protected ref array<string>■■■m_Mods;
■protected bool
■■■■■m_lsExpanded;
■protected bool■■■■■■m_lsFavorited;
protected bool
■protected ref GetServersResultRow m_ServerData;
■protected int■■■■■ Index;
■protected ServerBrowserTab
■■■m_Tab;
protected bool■■■■■m_Selected;
■protected bool
■ m_FirstExpand = true;
void ServerBrowserEntry(Widget parent, int index, ServerBrowserTab tab)
■■#ifdef PLATFORM_CONSOLE
■■■m_Root■■■= GetGame().GetWorkspace().CreateWidgets( "gui/layouts/new_ui/server_browser/xb
■#else
■■■m_Root■■■= GetGame().GetWorkspace().CreateWidgets( "gui/layouts/new_ui/server_browser/pc
■#endif
■■ ServerName ■■ TextWidget.Cast( m_Root.FindAnyWidget( "server_name" ) );
■■ ServerPopulation ■ TextWidget.Cast( m_Root.FindAnyWidget( "server_population" ) );
■■ ServerSlots ■■ TextWidget.Cast( m_Root.FindAnyWidget( "server_slots" ) );
■■m_ServerPing■■■= TextWidget.Cast(`m_Root.FindAnyWidget(`"server_ping")´);
■■m_ServerTime■■■= ImageWidget.Cast(m_Root.FindAnyWidget("server_time"));
■■m_ServerLock■■= ImageWidget.Cast(m_Root.FindAnyWidget("lock_icon"));
■■ ServerModIcon■■■ ImageWidget.Cast( m_Root.FindAnyWidget( "modded_icon" ) );
■■ ServerMakIcon■■■ ImageWidget Cast( m_Root FindAnyWidget( "mandk_icon" ) );
```

```
// ----- ServerBrowserFavoritesTabConsolePages.c - START -----
class ServerBrowserFavoritesTabConsolePages extends ServerBrowserTabConsolePages
Eprotected override void Construct(Widget parent, ServerBrowserMenuNew menu, TabType type)
■■super.Construct(parent, menu, type);
■■// disabling filter section
■■m_Root.FindAnyWidget("filters_content").Show(false);
■■m_Root.FindAnyWidget("reset_filter_button").Show(false);
|
■override void OnLoadServersAsyncFinished()
■■// m_TotalLoadedServers for FAVORITES tab is determined by total number of favorited servers
■■TStringArray favIds = m_Menu.GetFavoritedServerIds();
■■m_TotalLoadedServers = favIds.Count();
■ super.OnLoadServersAsyncFinished():
■}
■protected override void LoadEntries( int cur_page_index , GetServersResultRowArray page_entries )
■■if (cur_page_index == 1)
■■■m_OnlineFavServers.Clear();
| | |
■■super.LoadEntries(cur_page_index, page_entries);
■protected override void LoadExtraEntries(int index)
■■if (!m_Menu || m_Menu.GetServersLoadingTab()!= m_TabType)
■■return;
||
■■// m_PagesCount for FAVORITES tab is determined by total number of favorited servers
■■TStringArray favIds = m_Menu.GetFavoritedServerIds();
m_PagesCount = Math.Ceil((float)favIds.Count() / SERVER_BROWSER_PAGE_SIZE);
■■// offlineFavIds will always have same order, even across pages,
■■// to ensure we display only fav servers that HAVEN'T been displayed yet
■■TStringArray offlineFavIds = new TStringArray();
■■offlineFavIds.Reserve(favIds.Count() - m_OnlineFavServers.Count());
■■foreach (string ipPort : favIds)
■■■if (m_OnlineFavServers.Find(ipPort) == -1)
■■■offlineFavIds.Insert(ipPort);
---
■■// appending offline servers to server list
■■int totalServersAlreadyShown = (GetCurrentPage() - 1) * SERVER_BROWSER_PAGE_SIZE + index;
■■int startingIndex = totalServersAlreadyShown - m_OnlineFavServers.Count();
■■for (int i = startingIndex; i < offlineFavIds.Count(); ++i)
```

string favServerId – offlineFavIds[i].

```
// ----- ServerBrowserFavoritesTabPc.c - START ------
class ServerBrowserFavoritesTabPc extends ServerBrowserTabPc
■// value = ip, name, connection port, query port
■private ref array<ref CachedServerInfo> m_CachedFavoriteServerInfo;
Eprotected override void Construct(Widget parent, ServerBrowserMenuNew menu, TabType type)
m_CachedFavoriteServerInfo = new array<ref CachedServerInfo>();
■■super.Construct(parent, menu, type);
■■DisableFilters();
protected override void LoadExtraEntries(int index)
■■array<ref Param2<string, CachedServerInfo>> relevantCachedInfo = new array<ref Param2<string, CachedServerInfo>> relevantCachedInfo = new array</ref
■■foreach (CachedServerInfo cachedInfo: m CachedFavoriteServerInfo)
■■■string serverId = GetConnEndPoint(cachedInfo);
■■■// ensure the cached server is still favorited
■■■if (!m_Menu.lsFavorited(GetQueryEndPoint(cachedInfo)))
■■■continue;
}
■■■if (m_OnlineFavServers.Find(serverId) > -1)
EXEcontinue;
}
■■■relevantCachedInfo.Insert(new Param2<string, CachedServerInfo>(serverId, cachedInfo));
——}
■■// adding FAVORITED, OFFLINE servers to favorites tab
■■int totalServersAlreadyShown = m_PageIndex * SERVERS_VISIBLE_COUNT + index;
■■int startingIndex = totalServersAlreadyShown - m_TotalLoadedServers;
■■m_TotalLoadedServers += relevantCachedInfo.Count();
■■for (int i = startingIndex; i < relevantCachedInfo.Count(); ++i)</p>
■■■if (index >= SERVERS_VISIBLE_COUNT)
■■■■break;
■■■Param2<string, CachedServerInfo> relevantEntry = relevantCachedInfo[i];
■■■cachedInfo = relevantEntry.param2;■■■
■■string ip = cachedInfo.param1;
■■string cachedName = cachedInfo.param2;
■■■int connPort = cachedInfo.param3;
■■■int queryPort = cachedInfo.param4;
■■■// do NOT insert offlineRow into m_EntriesSorted[m_SortType]!!
■■■// we assume that rows already in m_EntriesSorted[m_SortType] are ONLINE,
■■■// if we add offline info to m_EntriesSorted[m_SortType] then we cannot differente
■■// between online and offline servers■■■
```

■■GetServersResultRow offlineRow - new GetServersResultRow():

```
// ----- ServerBrowserFilterContainer.c - START ------
class ServerBrowserFilterContainer extends ScriptedWidgetEventHandler
■ref map<string, string>■■m_Options = new map<string, string>;
■protected EditBoxWidget■■■■m_SearchByName;
■protected EditBoxWidget■■■■m_SearchByIP;
■■■ref OptionSelectorMultistate■m_CharacterAliveFilter;
■■ref OptionSelectorMultistate■m_SortingFilter;
■■■ref OptionSelectorMultistate■m_RegionFilter;
■■■ref OptionSelectorMultistate■m_PingFilter;
■■ref OptionSelector■■■m_DLCFilter;
■■■ref OptionSelector■■■■m_FavoritedFilter;
■■■ref OptionSelector■■■■m_FriendsPlayingFilter;
■■■ref OptionSelector■■■■m_BattleyeFilter;
■■■ref OptionSelector■■■m_PasswordFilter;
■■■ref OptionSelector■■■■m_WhitelistFilter;
■■■ref OptionSelector■■■■m_KeyboardFilter;
■■■ref OptionSelector■■■■m_PreviouslyPlayedFilter;
■■■ref OptionSelector■■■■m_VersionMatchFilter;
■■■ref OptionSelector■■■■m_FullServerFilter;
■■■ref OptionSelector■■■m_ThirdPersonFilter;
■■■ref OptionSelector■■■■m_PublicFilter;
■■■ref OptionSelector■■■■m_AcceleratedTimeFilter;
■protected ServerBrowserTab
■■■ Tab;
■void ServerBrowserFilterContainer( Widget root, ServerBrowserTab parent )
■■string player_name;
■■GetGame().GetPlayerName( player_name );
■■m_Tab = parent;
ref array<string> character_name_options ={ "#server_browser_disabled", player_name };

ref array<string> region_options = { "#server_browser_all", "#server_browser_americas", "#server_browser_array<string> sort_options = { "#server_browser_column_host A-Z", "#server_browser_column_host ping_options = { "#server_browser_disabled", "<30", "<50", "<100", "<200", "<300", "<
■ ref array<string> two_options = { "#server_browser_disabled", "#server_browser_show" };
■■m_SearchByName■■■■= EditBoxWidget.Cast( root.FindAnyWidget( "search_name_setting_option" )
■■m SearchByIP■■■■= EditBoxWidget.Cast( root.FindAnyWidget( "search_ip_setting_option" ) );
■■m_RegionFilter■■■■= new OptionSelectorMultistate( root.FindAnyWidget( "region_setting_option" ), (
■■m_PingFilter■■■= new OptionSelectorMultistate( root.FindAnyWidget( "ping_setting_option" ), 0, thi
■■#ifdef PLATFORM CONSOLE
■■m_FavoritedFilter■■■= new OptionSelectorMultistate( root.FindAnyWidget( "favorites_setting_option"
■■m_FavoritedFilter■■■= new OptionSelector( root.FindAnyWidget( "favorites_setting_option" ), 0, this,
■#endif
■■m_DLCFilter■■■■= new OptionSelector( root.FindAnyWidget( "dlc_setting_option" ), 0, this, false );
■■m_FriendsPlayingFilter■■= new OptionSelector( root.FindAnyWidget( "friends_setting_option" ), 0, this
■■ PreviouslyPlayedFilter■= new OptionSelector( root.FindAnyWidget( "prev_played_setting_option" )
■■ FullServerFilter■■■= new OptionSelector( root.FindAnyWidget( "full_server_setting_option" ), 0, the m_PasswordFilter■■■= new OptionSelector( root.FindAnyWidget( "password_setting_option" ), 0, this
■■m_WhitelistFilter■■■= new OptionSelector( root.FindAnyWidget( "whitelist_setting_option" ), 0, this, fa
■■m_DLCFilter.m_OptionChanged.Insert( OnFilterChanged );
■■m_RegionFilter.m_OptionChanged.Insert( OnFilterChanged );
```

■ PingFilter m OntionChanged Insert(OnFilterChanged):

```
// ----- ServerBrowserMenuNew.c - START ------
const int MAX_FAVORITES = 25;
#ifdef PLATFORM_CONSOLE
const int SERVER_BROWSER_PAGE_SIZE = 22;
#else
const int SERVER_BROWSER_PAGE_SIZE = 5;
#endif
class ServerBrowserMenuNew extends UIScriptedMenu
■protected Widget■■■m_Play;
■protected Widget■■■m_Back;
■protected Widget■■■m_CustomizeCharacter;
■protected TextWidget■■m_PlayerName;
■protected TextWidget■■m_Version;
■protected TabberUI■■■■ Tabber:
■protected ref ServerBrowserTab■m_OfficialTab;
■protected ref ServerBrowserTab■m_CommunityTab;
■protected ref ServerBrowserTab m_FavoritesTab;
■protected ref ServerBrowserTab■m_LANTab;
■protected TabType■■■■m_IsRefreshing = TabType.NONE;
■protected ref TStringArray
■m_Favorites;
■protected ServerBrowserEntry■m_SelectedServer;
override Widget Init()
■#ifdef PLATFORM_CONSOLE
■■layoutRoot ■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/server_browser/xbox
■■m_FavoritesTab = new ServerBrowserFavoritesTabConsolePages(layoutRoot.FindAnyWidget("Tab_0
■■m_OfficialTab■= new ServerBrowserTabConsolePages(layoutRoot.FindAnyWidget("Tab_1"), this, Tab
■■m_CommunityTab■= new ServerBrowserTabConsolePages(layoutRoot.FindAnyWidget("Tab_2"), this
■■layoutRoot ■■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/setworkspace().CreateWidgets("gui/layouts/new_ui/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/pc/server_browser/
■■m_FavoritesTab = new ServerBrowserFavoritesTabPc(layoutRoot.FindAnyWidget("Tab_0"), this, Tab
■■m_OfficialTab■= new ServerBrowserTabPc(layoutRoot.FindAnyWidget("Tab_1"), this, TabType.OFFIC■■m_CommunityTab■= new ServerBrowserTabPc(layoutRoot.FindAnyWidget("Tab_2"), this, TabType.C
■■m LANTab■■= new ServerBrowserTabPc(layoutRoot.FindAnyWidget("Tab 3"), this, TabType.LAN);
■#endif
■■layoutRoot.FindAnyWidget("Tabber").GetScript(m_Tabber);
■ m_Play ■ ■ ■ = layoutRoot.FindAnyWidget("play");
■ m_Back ■ ■ ■ = layoutRoot.FindAnyWidget("back_button");
■■m_CustomizeCharacter■= layoutRoot.FindAnyWidget("customize_character");
■■m_PlayerName■■■= TextWidget.Cast(layoutRoot.FindAnyWidget("character_name_text"));
■■m_Version■■■■= TextWidget.Cast(layoutRoot.FindAnyWidget("version"));
■■m_Favorites ■■■= new TStringArray;
■#ifndef PLATFORM CONSOLE
■■layoutRoot.FindAnyWidget("customize_character").Show(false);
■■layoutRoot.FindAnyWidget("character").Show(false);
■#endif
■■Refresh();
```

string version:

```
// ----- ServerBrowserTab.c - START ------
enum TabType
■OFFICIAL,
■COMMUNITY,
■LAN,
■FAVORITE,
■NONE
enum SelectedPanel
■BROWSER,
■FILTERS,
■MENU
class ServerBrowserTab extends ScriptedWidgetEventHandler
■protected Widget■■■■■■■■m_Root;
■//protected ref array<ref GetServersResultRow>■■■m Entries:
■protected ref map<string, ref ServerBrowserEntry>■■m_EntryWidgets;
■protected ref map<string, ref array<string>>■■■m_EntryMods;
■protected ref ServerBrowserFilterContainer■■■■ Filters:
■protected ServerBrowserMenuNew■■■■■■■ Menu;
protected ServerBrowserEntry
BrowserEntry
Browser
■protected TabType■■■■■■■■■ TabType:
■protected ESortType■■■■■■■■■■■■■■■■■■■=m_SortType;
protected bool
protected bool
protected bool
protected int■■■■■■■■■m_TotalServers; // UNUSED
protected int
■protected int■■■■■■■■■■m_LastLoadedPage;
■protected int■■■■■■■■■m_TotalPages;
■protected bool■■■■■■■■■■m_LoadingFinished;
■protected string■■■■■■■■■■■m_CurrentSelectedServer;
■protected ref GetServersInput■■■■■■■ CurrentFilterInput:
■protected Widget■■■■■■■■■ ApplyFilter;
■ protected Widget ■■■■■■■■■ Filters Changed:
■ protected Widget ■■■■■■■■ HostSort:
■protected Widget■■■■■■■■■■■■■■■■■■■=TimeSort;
```

inrotected Widget

```
// ----- ServerBrowserTabConsole.c - START ------
class ServerBrowserTabConsole extends ServerBrowserTab
■private bool m_IsFilterChanged;
■private bool m_lsFilterFocused;
■private Widget m_WidgetNavFilters;
■private Widget m_WidgetNavServers;
■protected override void Construct( Widget parent, ServerBrowserMenuNew menu, TabType type )
■ m_Root = GetGame().GetWorkspace().CreateWidgets( "gui/layouts/new_ui/server_browser/xbox/server_
■■m_ServerListScroller■= ScrollWidget.Cast( m_Root.FindAnyWidget( "server_list_scroller" ) );
■■m_ServerList■■= SpacerBaseWidget.Cast( m_ServerListScroller.FindAnyWidget( "server_list_conte
■■m_ServerListScroller.VScrollToPos01(0);
■■m_EntryWidgets■■= new map<string, ref ServerBrowserEntry>;
■■m_EntriesSorted■■■= new map<ESortType, ref array<ref GetServersResultRow>>;
m_EntriesSorted[ESortType.HOST] = new array<ref GetServersResultRow>;
■■m_EntriesSorted[ESortType.POPULATION] = new array<ref GetServersResultRow>;
■■m_Menu■■■■■= menu;
■■m_TabType■■■= type;
■■m_ApplyFilter■■■= m_Root.FindAnyWidget( "apply_filter_button" );
■■m_RefreshList■■= m_Root.FindAnyWidget( "refresh_list_button" );
■■m_FiltersChanged■■= m_Root.FindÁnyWidget( "unapplied_filters_notify" );
■■m_HostSort■■■= m_Root.FindAnyWidget( "server_list_content_header_host" );
■■m_TimeSort■■■= m_Root.FindAnyWidget( "server_list_content_header_time" );
■■m_PopulationSort■■= m_Root.FindAnyWidget( "server_list_content_header_population" );
■■m_SlotsSort■■■= m_Root.FindAnyWidget( "server_list_content_header_slots" );
■■m_PingSort■■■= m_Root.FindAnyWidget( "server_list_content_header_ping" );
■■m_LoadingText■■= TextWidget.Cast( m_Root.FindAnyWidget( "loading_servers_info" ) );
■■m_WidgetNavFilters■■= m_Root.FindAnyWidget( "filters_root_nav_wrapper" );
■■m_WidgetNavServers■■= m_Root.FindAnyWidget( "server_list_root_nav_wrapper" );
■■ShowHideConsoleWidgets();■■
■■m_Filters■■■■= new ServerBrowserFilterContainer( m_Root.FindAnyWidget( "filters_content" ), this )
■■SetSort( ESortType.HOST, ESortOrder.ASCENDING );
■■SetFocusFilters();
■■m_Root.SetHandler( this );
■void ShowHideConsoleWidgets()
#ifdef PLATFORM PS4
■■bool is_xbox = false;
#else
■■bool is_xbox = true;
#endif
■■m_Root.FindAnyWidget( "filters_root_nav_img_lb_xbox" ).Show( is_xbox );
■■m_Root.FindAnyWidget( "filters_root_nav_img_rb_xbox" ).Show( is_xbox );
■■m_Root.FindAnyWidget( "server_list_root_nav_img_lb_xbox" ).Show( is_xbox );
```

```
// ----- ServerBrowserTabConsolePages.c - START ------
class ServerBrowserTabConsolePages extends ServerBrowserTab
■private bool m_IsFilterChanged;
■private bool m_lsFilterFocused;
■protected bool m_MouseKeyboardControlled
■private Widget m_WidgetNavFilters;
■private Widget m_WidgetNavServers;
■protected Widget■■■■■■■■■ButtonPageLeftImg;
■protected Widget■■■■■■■■■■■■■■ButtonPageRightImg;
■ protected int ■■■■■■■■ Previous Page:
■protected int■■■■■■■■■m_TotalServersCount;
protected int■■■■■■■m_PageStartNum;
■protected int■■■■■■■■■m_PageEndNum;
■protected int■■■■■■■■■■■■■■■=PagesCount;
protected int
protected i
■protected int■■■■■■■■■■ TimeLastServerRefreshHoldButton;
■protected Widget■■■■■■■■■PnlPagesPanel;
■protected TextWidget■■■■■■■■■PnlPagesLoadingText;
■protected ref array<ref ServerBrowserEntry>■■m_ServerListEntiers;
Eprotected override void Construct(Widget parent, ServerBrowserMenuNew menu, TabType type)
■ m_Root = GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser/xbox/server_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_browser_
■■m_ServerListScroller■= ScrollWidget.Cast( m_Root.FindAnyWidget( "server_list_scroller" ) );
■■m_ServerList■■= SpacerBaseWidget.Cast( m_ServerListScroller.FindAnyWidget( "server_list_conte
■■m_ServerListScroller.VScrollToPos01(0);
■■m_ServerListEntiers■■= new array<ref ServerBrowserEntry>;
■■m_EntryWidgets■■= new map<string, ref ServerBrowserEntry>;
■■m_EntriesSorted■■■= new map<ESortType, ref array<ref GetServersResultRow>>;
 EntriesSorted[ESortType.HOST] = new array<ref GetServersResultRow>;
m_EntriesSorted[ESortType.POPULATION] = new array<ref GetServersResultRow>;
■■m_Menu■■■■= menu;
■■m_TabType■■■= type;
■■m_ApplyFilter■■■= m_Root.FindAnyWidget( "apply_filter_button" );
■■m_ResetFilters■■■= m_Root.FindAnyWidget( "reset_filter_button");
■■m_RefreshList■■= m_Root.FindAnyWidget("refresh_list_button");
■■m_FiltersChanged■■= m_Root.FindAnyWidget( "unapplied_filters_notify" );
■■m_HostSort■■■= m_Root.FindAnyWidget("server_list_content_header_host");
■■m_TimeSort■■■= m_Root.FindAnyWidget("server_list_content_header_time");
■■m_PopulationSort■■= m_Root.FindÁnyWidget( "server_list_content_header_population" );
■■m_SlotsSort■■■= m_Root.FindAnyWidget( "server_list_content_header_slots");
■■m_PingSort■■■= m_Root.FindAnyWidget( "server_list_content_header_ping");
 ■■m_FilterSearchText■■= m_Root.FindAnyWidget( "search_name_button" );
 ■■m_FilterSearchTextBox■= m_Root.FindAnyWidget( "search_name_setting_option" );
■■m_LoadingText■■= TextWidget.Cast( m_Root.FindAnyWidget( "loading_servers_info" ) );
 ■■m_WidgetNavFilters■■= m_Root.FindAnyWidget( "filters_root_nav_wrapper" );
■■m_WidgetNavServers■■= m_Root.FindAnyWidget( "server_list_root_nav_wrapper" );
```

```
// ----- ServerBrowserTabPc.c - START ------
class ServerBrowserTabPc extends ServerBrowserTab
■protected const int SERVERS_VISIBLE_COUNT = 24;
■protected const int PAGES_BUTTONS_COUNT■■= 10;
■protected int■■■■■■■■■m_TotalServersCount; //UNUSED
■protected int■■■■■■■■■■ PageIndex;
■protected int■■■■■■■■■m_PageEndNum;
■protected int■■■■■■■■■■m_PagesCount;
■protected int■■■■■■■■■■■■■■■■ServersEstimateCount;
■protected Widget■■■■■■■■■m_PnlPagesPanel;
■protected TextWidget■■■■■■■■■PnlPagesLoadingText;
■protected ButtonWidget■■■■■■■■■BtnPagesFirst;
■protected ButtonWidget■■■■■■■■■■BtnPagesLast;
■protected Widget■■■■■■■m_FilterSearchIP;
■protected Widget■■■■■■■m_FilterSearchIPBox;
■protected Widget■■■■■■■m_FilterPanelPing;
■protected Widget■■■■■■■m_FilterPanelAccTime;
■protected ref array<ButtonWidget>■■■m_BtnPages;
■protected ref array<ref ServerBrowserEntry>■■m_ServerListEntries;
■protected ref TStringArray m_TempTime = new TStringArray;
■protected override void Construct( Widget parent, ServerBrowserMenuNew menu, TabType type )
■■#ifdef PLATFORM_CONSOLE
■■■m_Root■■■■■= GetGame().GetWorkspace().CreateWidgets( "gui/layouts/new_ui/server_browser/>
■■#ifdef PLATFORM WINDOWS
■■■m_Root■■■■= GetGame().GetWorkspace().CreateWidgets( "gui/layouts/new_ui/server_browser/g
■#endif
#endif
■■m_ServerListScroller■= ScrollWidget.Cast( m_Root.FindAnyWidget( "server_list_scroller" ) );
■■m_ServerList■■= SpacerBaseWidget.Cast( m_ServerListScroller.FindAnyWidget( "server_list_conte
■■m_ServerListScroller. VScrollToPos01(0);
■■m_ServerListEntries■■= new array<ref ServerBrowserEntry>;■■
■■m_EntryWidgets■■= new map<string, ref ServerBrowserEntry>;
■■m_SortInverted■■■= new map<ESortType, ESortOrder>;
■■m_EntriesSorted■■■= new map<ESortType, ref array<ref GetServersResultRow>>;
■■m_EntryMods■■■■= new map<string, ref array<string>>;
■■m_EntriesSorted[ESortType.HOST] ■■= new array<ref GetServersResultRow>;
■■m_EntriesSorted[ESortType.TIME]■■■= new array<ref GetServersResultRow>;
■■m_EntriesSorted[ESortType.POPULATION]■= new array<ref GetServersResultRow>;
■■m_EntriesSorted[ESortType.SLOTS]■■= new array<ref GetServersResultRow>;
■■m_EntriesSorted[ESortType.PING]■■■= new array<ref GetServersResultRow>;
■■m_EntriesSorted[ESortType.FAVORITE]■■= new array<ref GetServersResultRow>;
■■m_EntriesSorted[ESortType.PASSWORDED]■= new array<ref GetServersResultRow>;
■■m_Menu■■■■■= menu;
```

■■m_TabType**■■■**= type;

```
// ----- settings.c - START -----
#ifdef GAME_TEMPLATE
class Settings
■static void■■OnChange(string variableName) {}
■static void ■OnAnyChange() {}■
■static void ■OnLoad() {}
■static void ■OnSave() {}
■static void ■OnReset() {}
■static void ■OnRevert() {}
■static void ■OnApply() {}
mate void Settings() {}
■private void ~Settings() {}
class GameSettings: Settings
[Attribute("false", "checkbox", "Is debug mode enabled")]
■static bool Debug;
■override static void OnAnyChange()
■■GetGame().SetDebug(Debug);
■}
class SettingsMenu: MenuBase
■proto native external bool AddSettings(typename settingsClass);
■proto native void Save();■
■proto native void Reset();
■proto native void Revert();
■proto native void Apply();
■proto native void Back();
#endif
// -----
// ----- settings.c - END -----
// -----
// ----- SewingKit.c - START ------//
class SewingKit: Inventory_Base
■override void SetActions()
■ super.SetActions();
■■AddAction(ActionRenairTent)·
```

```
// ----- SharpenBroom.c - START -----
class SharpenBroom extends RecipeBase
■override void Init()
[
■■m_Name = "#sharpen";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;
■■m_MaxDamageIngredient[0] = 3;
■■m_MinQuantityIngredient[0] = 1;
■■m_MaxQuantityIngredient[0] = -1;
■■m_MinDamageIngredient[1] = -1;
■■m_MaxDamageIngredient[1] = 3;
\blacksquarem_MinQuantityIngredient[1] = -1;
■■m_MaxQuantityIngredient[1] = -1;
■■//ingredient 1
■■InsertIngredient(0,"Broom");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;
■■m_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -1;
\blacksquarem_IngredientDestroy[0] = 1:
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■ InsertIngredient(1,"Sickle");//you can insert multiple ingredients this way
■ InsertIngredient(1,"KukriKnife");
■ InsertIngredient(1,"FangeKnife");
■ InsertIngredient(1,"Hacksaw");
Insertingredient(1, Hacksaw ),
Insertingredient(1,"KitchenKnife");
Insertingredient(1,"SteakKnife");
Insertingredient(1,"HayHook");
Insertingredient(1,"StoneKnife");
Insertingredient(1,"Cleaver");
Insertingredient(1,"CombatKnife");
Insertingredient(1,"HuntingKnife");
■■InsertIngredient(1, "Machete");
Insertingredient(1, Machete );
Insertingredient(1, "CrudeMachete");
Insertingredient(1, "OrientalMachete");
Insertingredient(1, "Screwdriver");
Insertingredient(1, "Crowbar");
Insertingredient(1, "Pickaxe");
Insertingredient(1, "WoodAxe");
Insertingredient(1, "WoodAxe");
Insertingredient(1,"Hatchet");
Insertingredient(1,"FirefighterAxe");
Insertingredient(1,"Sword");
Insertingredient(1,"AK_Bayonet");
■■InsertIngredient(1,"M9A1_Bayonet");
■■InsertIngredient(1,"Mosin_Bayonet");
■■InsertIngredient(1,"SKS_Bayonet");
```

■■InsertIngredient(1,"BoneKnife");

```
// ----- SharpenLongStick.c - START ------
class SharpenLongStick extends RecipeBase
■override void Init()
[
■■m_Name = "#sharpen";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;
■■m_MaxDamageIngredient[0] = 3;
■■m_MinQuantityIngredient[0] = 1;
■■m_MaxQuantityIngredient[0] = -1;
■■m_MinDamageIngredient[1] = -1;
■■m_MaxDamageIngredient[1] = 3;
\blacksquarem_MinQuantityIngredient[1] = -1;
■■m_MaxQuantityIngredient[1] = -1;
■■//ingredient 1
■■InsertIngredient(0,"LongWoodenStick");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;
■■m_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -1;
\blacksquarem_IngredientDestroy[0] = 0;
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■ InsertIngredient(1,"Sickle");//you can insert multiple ingredients this way
■ InsertIngredient(1,"KukriKnife");
■ InsertIngredient(1,"FangeKnife");
■ InsertIngredient(1,"Hacksaw");
Insertingredient(1, Hacksaw ),
Insertingredient(1,"KitchenKnife");
Insertingredient(1,"SteakKnife");
Insertingredient(1,"HayHook");
Insertingredient(1,"StoneKnife");
Insertingredient(1,"Cleaver");
Insertingredient(1,"CombatKnife");
Insertingredient(1,"HuntingKnife");
■■InsertIngredient(1, "Machete");
Insertingredient(1, Machete );
Insertingredient(1, "CrudeMachete");
Insertingredient(1, "OrientalMachete");
Insertingredient(1, "Screwdriver");
Insertingredient(1, "Crowbar");
Insertingredient(1, "Pickaxe");
Insertingredient(1, "WoodAxe");
Insertingredient(1, "WoodAxe");
Insertingredient(1,"Hatchet");
Insertingredient(1,"FirefighterAxe");
Insertingredient(1,"Sword");
Insertingredient(1,"AK_Bayonet");
■■InsertIngredient(1,"M9A1_Bayonet");
■■InsertIngredient(1,"Mosin_Bayonet");
■■InsertIngredient(1,"SKS_Bayonet");
```

■■InsertIngredient(1,"BoneKnife");

```
// ----- SharpenMelee.c - START ------
·
class SharpenMelee extends RecipeBase
■override void Init()
■{
■m_Name = "#sharpen";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
■■m Specialty = -0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = 1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Whetstone");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = true;// set 'true' to allow modification of the values by softskills on this in
■■//ingredient 2
■■InsertIngredient(1,"Inventory_Base");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = -1;// (value) = -1 means do nothing; a (value) >= 0 means this result will i
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

```
// ----- SharpenStick.c - START -----
class SharpenStick extends RecipeBase
■override void Init()
[
■■m_Name = "#sharpen";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;
■■m_MaxDamageIngredient[0] = 3;
■■m_MinQuantityIngredient[0] = 1;
■■m_MaxQuantityIngredient[0] = -1;
■■m_MinDamageIngredient[1] = -1;
■■m_MaxDamageIngredient[1] = 3;
\blacksquarem_MinQuantityIngredient[1] = -1;
■■m_MaxQuantityIngredient[1] = -1;
■■//ingredient 1
■■InsertIngredient(0,"WoodenStick");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;
■■m_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -1;
\blacksquarem_IngredientDestroy[0] = 0;
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■ InsertIngredient(1,"Sickle");//you can insert multiple ingredients this way
■ InsertIngredient(1,"KukriKnife");
■ InsertIngredient(1,"FangeKnife");
■ InsertIngredient(1,"Hacksaw");
■■InsertIngredient(1,"KitchenKnife");
■■InsertIngredient(1,"SteakKnife");
■■InsertIngredient(1,"HayHook");
Insertingredient(1,"layrlook);
InsertIngredient(1,"StoneKnife");
InsertIngredient(1,"Cleaver");
InsertIngredient(1,"CombatKnife");
InsertIngredient(1,"HuntingKnife");
■■InsertIngredient(1, "Machete");
Insertingredient(1, Machete );
Insertingredient(1, "CrudeMachete");
Insertingredient(1, "OrientalMachete");
Insertingredient(1, "Screwdriver");
Insertingredient(1, "Crowbar");
Insertingredient(1, "Pickaxe");
Insertingredient(1, "WoodAxe");
Insertingredient(1, "WoodAxe");
Insertingredient(1,"Hatchet");
Insertingredient(1,"FirefighterAxe");
Insertingredient(1,"Sword");
Insertingredient(1,"AK_Bayonet");
■■InsertIngredient(1,"M9A1_Bayonet");
■■InsertIngredient(1,"Mosin_Bayonet");
■■InsertIngredient(1,"SKS_Bayonet");
```

■■InsertIngredient(1,"BoneKnife");

```
// ----- SheepSteakMeat.c - START -----
class SheepSteakMeat extends Edible_Base
■override bool CanBeCooked()
■return true;
■override bool CanBeCookedOnStick()
■ return true;
■override bool IsMeat()
■ return true;
■override bool CanDecay()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatMeat);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
// ----- SheepSteakMeat.c - END ------//
// ----- Shelter.c - START -----
class ShelterBase extends TentBase
■static const string SITE_OBJECT_TYPE = "ShelterSite";
■void ShelterBase()
■ Market Mar
■■m_ShowAnimationsWhenPacked.Insert("Body");
 \blacksquarem_HalfExtents = Vector(0.8, 0.15, 1.3);
```

■override void SetActions()

```
----- ShelterKit.c - START -----
class ShelterKit extends KitBase
■override bool CanReceiveAttachment(EntityAl attachment, int slotId)
■■if (!super.CanReceiveAttachment(attachment, slotId))
■■ return false:
■■ItemBase att = ItemBase.Cast(GetInventory().FindAttachment(slotId));
■■return false;
■return true;
■// ADVANCED PLACEMENT
■override void OnPlacementComplete( Man player, vector position = "0 0 0", vector orientation = "0 0 0")
■■super.OnPlacementComplete( player, position, orientation );
■■if ( GetGame().IsServer() )
■■{
■■■//Create shelter site
■■■ShelterSite site = ShelterSite.Cast( GetGame().CreateObjectEx( "ShelterSite", GetPosition(), ECE_P
■■site.SetPosition( position );
site.SetOrientation( orientation );
■■■//make the kit invisible, so it can be destroyed from deploy UA when action ends
■■■HideAllSelections();
■■■SetIsDeploySound( true );
■override bool DoPlacingHeightCheck()
■■return true;
■override float HeightCheckOverride()
■ return 1.6;
■override string GetDeploySoundset()
■■return "Shelter_Site_Build_Start_SoundSet";
■override string GetLoopDeploySoundset()
■■return "Shelter_Site_Build_Loop_SoundSet";
■override string GetDeployFinishSoundset()
```

■ return "Shelter Site Build Finish SoundSet":

```
// ----- ShelterSite.c - START ------
class ShelterSite extends BaseBuildingBase
■const float MAX_ACTION_DETECTION_ANGLE_RAD ■■= 1.3;■■//1.3 RAD = ~75 DEG
■const float MAX_ACTION_DETECTION_DISTANCE ■■= 2.0;■■//meters
■void ShelterSite()
■override string GetConstructionKitType()
■ return "ShelterKit";
■override int GetMeleeTargetType()
■■return EMeleeTargetType.NONALIGNABLE;
■}
■//--- CONSTRUCTION KIT
■override vector GetKitSpawnPosition()
■■if ( MemoryPointExists( "kit_spawn_position" ) )
■■vector position;
■■position = GetMemoryPointPos("kit_spawn_position");
■■■return ModelToWorld( position );
| | |
■■return GetPosition();
■//--- BUILD EVENTS
■//CONSTRUCTION EVENTS
■override void OnPartBuiltServer( notnull Man player, string part_name, int action_id )
■■ConstructionPart constrution_part = GetConstruction().GetConstructionPart( part_name );
■■string shelter_type = "";
■■switch (part_name)
----
■■ case "leather":
■■■shelter_type = "ShelterLeather";
■■break:
■■case "fabric":
■■■shelter_type = "ShelterFabric";
■■break;
■■■case "stick":
■■■shelter_type = "ShelterStick";
■■■break;
■■■default: {};
```

■■if (shelter type I- "")

```
// ----- Shirt_ColorBase.c - START ------
class Shirt_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class Shirt_BlueCheck extends Shirt_ColorBase {};
class Shirt_BlueCheckBright extends Shirt_ColorBase {};
class Shirt_GreenCheck extends Shirt_ColorBase {};
class Shirt_RedCheck extends Shirt_ColorBase {};
class Shirt_WhiteCheck extends Shirt_ColorBase {};
class Shirt_PlaneBlack extends Shirt_ColorBase {};
// ----- Shirt_ColorBase.c - END ------//
// ----- Shock.c - START ------
class ShockMdfr: ModifierBase
■private const float ■UNCONSCIOUS_LIMIT = 50;
■private const float ■SHOCK_INCREMENT_PER_SEC = 1;
■override void Init()
■m_ID ■■■■= eModifiers.MDF_SHOCK;
■■m TickIntervalInactive ■= 1;
■■m_TickIntervalActive ■= 0.35;
■■//DisableActivateCheck();
■■DisableDeactivateCheck();
■override bool ActivateCondition(PlayerBase player)
■ return true;
■override bool DeactivateCondition(PlayerBase player)
■■return false;
■override void OnActivate(PlayerBase player)
■override void OnDeactivate(PlayerBase player)
```

```
// ----- ShockDamage.c - START -----
class ShockDamageMdfr: ModifierBase
■const int UNCONSIOUSS_COOLDOWN_TIME = 60;//in s
■override void Init()
■{
■ TrackActivatedTime = false;
■ m_ID ■ = eModifiers.MDF_SHOCK_DAMAGE;
■ m_TickIntervalInactive = DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= 0.5;
■override void OnActivate(PlayerBase player)
■}
■override void OnReconnect(PlayerBase player)
■override bool ActivateCondition(PlayerBase player)
■if(!player.IsUnconscious() && player.GetHealth("","Blood") <= PlayerConstants.SHOCK_DAMAGE_BL
■■return true;
——}
■■else
----
■■return false;
■override bool DeactivateCondition(PlayerBase player)
■ return !ActivateCondition(player);
  1// -----
■override void OnTick(PlayerBase player, float deltaT)
■■float blood = player.GetHealth("","Blood");
■■float value = Math.InverseLerp( PlayerConstants.SHOCK_DAMAGE_BLOOD_THRESHOLD_HIGH, P
■■value = Math.Clamp(value,0,1);
■■float dmg = Math.Lerp( PlayerConstants.SHOCK_DAMAGE_HIGH, PlayerConstants.SHOCK_DAMAG
■■float damage = -dmg * deltaT;
■■player.AddHealth("","Shock", damage);
■■//PrintString(damage.ToString());
};
// ----- ShockDamage.c - END -----
```

```
// ----- ShockHandler.c - START ------
class ShockHandler
■protected float ■■■■■■m_Shock;
■protected float ■■■■■■m_ShockValueMax;
■protected float ■■■■■■■ ShockValueThreshold;
■protected PlayerBase■■■■m_Player;
■ protected const float ■■■■■UPDATE_THRESHOLD = 3; //NOTE : The lower, the more precise but the ■ const float ■■■■■■■■■■VALUE_CHECK_INTERVAL = 0.95; //in seconds
■protected float ■■■■■m_CumulatedShock;
■private float■■■■■■■m_TimeSinceLastTick = VALUE_CHECK_INTERVAL + 1;
■private float■■■■■■■ ShockMultiplier = 1;
■private float ■■■■■■■m_PrevVignette; //Previous vignette shock value
■private float ■■■■■■■■■m_LerpRes; //Lerp result
■private const int■■■■■LIGHT_SHOCK_HIT = 33;
■private const int■■■■■MID_SHOCK HIT = 67;
■private const int■■■■■HEAVY_SHOCK_HIT = 100;
■private const int ■■■■■■INTENSITY_FACTOR = 1; //How intense the vignette effect will be, the higher
■//Pulsing effect
■ private const float ■■■■■PULSE_PERIOD = 0.5; //The time it takes for pulse to do a full cycle ■ private const float ■■■■■PULSE_AMPLITUDE = 0.05; //This is a multiplier, keep below 1 or expect the
■private ■ float ■■■■■m_PulseTimer;
■protected ref Param1<float> ■■■m_Param;
■void ShockHandler(PlayerBase player)
■■m_Player = player;
m_Player.m_CurrentShock = m_Player.GetMaxHealth("", "Shock");
■■m_PrevVignette = m_Player.m_CurrentShock * 0.01; //Equivalent to divided by 100
■■m_ShockValueMax = m_Player.GetMaxHealth("", "Shock");
■■m_ShockValueThreshold = m_ShockValueMax * 0.95;
■■m_Param = new Param1<float>(0);
■void Update(float deltaT)
■■m_TimeSinceLastTick += deltaT;
■■m_PulseTimer += deltaT;
■■if ( GetGame().IsClient() )
■■■//Deactivate tunnel vignette when player falls unconscious
■■■if ( m_Player.IsUnconscious() )
■■■PPERequesterBank.GetRequester(PPERequester_TunnelVisionEffects).Stop();
■■■return;
■■■//Deactivate if above visible threshold (also stops "zero bobbing" being sent all the time
■■■if ( m_Player.m_CurrentShock >= m_ShockValueThreshold)
 ■■■PPERequesterBank.GetRequester(PPERequester_TunnelVisionEffects).Stop();
```

EXECUTE:

```
// ----- ShockHitReaction.c - START ------
class ShockDealtEffect
■const float INTENSITY_COEF_OVERALL = 0.8; //intensity percentage multiplier
■const float INTENSITY_COEF_BLUR = 1;
■const float INTENSITY_COEF_COLOR = 0.2;
■const float INTENSITY COEF VIGNETTE = 0.7;
■const float DURATION_MIN = 0.6;
■ref Param3<float,float,float> m_EffectParam;
■float m_HitDuration;
■float m_BreakPoint;
■float m TimeActive:
■float m_ShockIntensityMax;
■void ShockDealtEffect(float intensity_max)
•{
■■float duration_coef = Math.Clamp(intensity_max,DURATION_MIN,1);
■■m_HitDuration = 1 * duration_coef;
■■m_BreakPoint = 0.2 * duration_coef;
■■m_ShockIntensityMax = Math.Clamp(intensity_max,0,1);
■■m_EffectParam = new Param3<float,float,float>(0,0,0);
■■//Print(intensity max);
■■//Print("HitSyncDebug | ShockDealtEffect: " + GetGame().GetPlayer().GetSimulationTimeStamp());
|}
■void ~ShockDealtEffect()
■■if (GetGame())
■■■PPERequesterBank.GetRequester(PPERequester_ShockHitReaction).Stop();
■void Update(float deltatime)
■Ifloat value;
■■if ( m_TimeActive <= m_BreakPoint )</p>
■■■value = Math.InverseLerp(0, m_BreakPoint, m_TimeActive);
| ||
■■else
■■■float tmp_value = Math.InverseLerp(m_BreakPoint, m_HitDuration, m_TimeActive);
■■■value = 1 - tmp_value;
| | |
■■m_TimeActive += deltatime;
■■value = Math.Clamp(value,0,1);
■■//value calculations
■■float val = Math.Clamp(Math.Lerp(0, m_ShockIntensityMax, value),0,m_ShockIntensityMax);
■■float val_color = Math.Clamp(val * INTENSITY_COEF_COLOR,0,m_ShockIntensityMax);
■■//Postprocess application
■■float blur = val * INTENSITY_COEF_OVERALL * INTENSITY_COEF_BLUR;
■■float factor = val_color * INTENSITY_COEF_OVERALL;
```

■■float vignette - val * INTENSITY COFE OVERALL * INTENSITY COFE VIGNETTE:

```
// ----- Shovel.c - START -----
class Shovel extends ItemBase
■override bool CanMakeGardenplot()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionClapBearTrapWithThisItem);
■■AddAction(ActionTogglePlaceObject);
■■AddAction(ActionDigGardenPlot);
■■AddAction(ActionDismantleGardenPlot);
■■AddAction(ActionDismantlePart);
■■AddAction(ActionBuildPart);
■■AddAction(ActionBuryBody);
■■AddAction(ActionBuryAshes);
■■AddAction(ActionDigOutStash);
■■AddAction(ActionDigInStash);
■■AddAction(ActionFillObject);
■■AddAction(ActionDigWorms);
■■AddAction(ActionCreateGreenhouseGardenPlot);
■}
// -----
// ----- Shovel.c - END -------//
// ----- ShowLog.c - START -----
[WorkbenchPluginAttribute("SVN ShowLog", "Just for testing", "ctrl+=", "", {"ScriptEditor"})]
class SVNShowLogPlugin: WorkbenchPlugin
■[Attribute("TortoiseProc /command:log /path:$path", "editbox")]
■string CommandLine;
■override void Run()
■■ScriptEditor mod = Workbench.GetModule("ScriptEditor");
■If (mod)
■■string file;
■■string absPath:
■■■if (mod.GetCurrentFile(file) && Workbench.GetAbsolutePath(file, absPath))
■■■string command = CommandLine;
■■■command.Replace("$path", absPath);
■■■■Workbench.RunCmd(command);
■■■//Print( command );
```

■■■//Print(absPath)·

```
// ----- SiagaRecoil.c - START ------
class SiagaRecoil: RecoilBase
■override void Init()
■{
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandom
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.4;
■■m_MouseOffsetRangeMin = 45;//in degrees min
■■m_MouseOffsetRangeMax = 130;//in degrees max
■■m_MouseOffsetDistance = 8.5;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.25;//[0..1] a time it takes to move the mouse the required distance rel
\blacksquarem_CamOffsetDistance = 0.05; //0.0125;
■■m_CamOffsetRelativeTime = 0.5;
}
// -----
// ----- SiagaRecoil.c - END -----
// -----
// ----- Sickle.c - START -----
class Sickle extends ToolBase
■void Sickle()
■override bool IsMeleeFinisher()
■ return true;
■override array<int> GetValidFinishers()
■ return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override void SetActions()
```

```
// ----- SickNotfr.c - START ------
class SickNotfr: NotifierBase
■void SickNotfr(NotifiersManager manager)
■■m_Active = false;
■override int GetNotifierType()
■ return eNotifiers.NTF_SICK;
■override void DisplayBadge()
■■DisplayElementBadge dis_elm = DisplayElementBadge.Cast(GetVirtualHud().GetElement(eDisplayEle
■■if( dis_elm )
----
■■dis_elm.SetLevel(eBadgeLevel.FIRST);
■override void HideBadge()
IÌ
■■DisplayElementBadge dis_elm = DisplayElementBadge.Cast(GetVirtualHud().GetElement(eDisplayEle
■■if( dis_elm )
■■dis_elm.SetLevel(eBadgeLevel.NONE);
——}
■}
};
// ----- SickNotfr.c - END ------
// ----- SimpleMovingAverage.c - START ------
class SimpleMovingAverage<Class T>
■private T m_Sum ■■■■= 0;
private int m_Pointer ■■■= 0;
■private int m_Size ■■■= 0;
■private ref array<T> m_Samples ■= new array<T>();
/**
■\brief Initialize Simple Moving Average Cyclic Buffer
■■\param pSize \p size of the buffer
■■\param pDefaultValue \p initial value stored in buffer
```

```
enum SSPAnimState
■COCKED ■■= 0, ■///< default weapon state, closed and discharged</p>
■UNCOCKED ■= 1, ■///< default weapon state, closed and discharged
enum SSPStableStateID
■UNKNOWN■■■■= 0,
\blacksquareEmpty\blacksquare\blacksquare\blacksquare= 1,
■Fireout■■■= 2.
\blacksquareLoaded\blacksquare\blacksquare\blacksquare\blacksquare 3,
class SSPEmpty extends WeaponStableState
 ■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {    wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) { 
■override int GetCurrentStateID () { return SSPStableStateID.Empty; }
■override bool HasBullet () { return false; }
■override bool HasMagazine () { return false; }
■ override bool IsJammed () { return false; } ■ override bool IsBoltOpen () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.E}; }
class SSPFireout extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return SSPStableStateID.Fireout; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsBoltOpen () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.F}; }
class SSPLoaded extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.lsWeaponLogEnable()) { wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return SSPStableStateID.Loaded; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsBoltOpen () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.L}; }
};
class SingleShotPistol_Base: Weapon_Base
■override void InitStateMachine()
■■// setup abilities
■■m_abilities.Insert(new AbilityRecord(WeaponActions.MECHANISM, WeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActionMechanismTypes.MeaponActi
```

■■m. abilities Insert(new AbilityRecord(WeaponActions MECHANISM, WeaponActionMechanismTypes N

```
// ----- SizeToChild.c - START -----
class SizeToChild extends ScriptedWidgetEventHandler
■reference string■■m_ChildName;
■reference float ■■ m_HorizontalOffset;
■reference float■■m_VerticalOffset;
■reference bool■■■m ResizeHorizontal;
■reference bool■■■m_ResizeVertical;
■protected Widget■■m_Root;
■protected Widget■■m_Child;
■protected static bool m_IgnoredBool;
■void OnWidgetScriptInit(Widget w)
\blacksquare m_Root \blacksquare = w;
■■m_Child■= m_Root.FindAnyWidget( m_ChildName );
■■if ( m_Child )
■■■ResizeParentToChild();
==}
■}
■bool ResizeParentToChild()
■ Teturn ResizeParentToChild( m_IgnoredBool, -1, false );
■bool ResizeParentToChild( out bool changed_size, int limit = -1, bool immedUpdate = true )
■■float x, y, o_x, o_y, new_x, new_y;
■■if ( m_Child )
■■■m Child.Update():
■■■m_Child.GetScreenSize(x, y);
■■■m_Root.GetScreenSize( new_x, new_y );
■■■m_Root.GetSize(o_x, o_y);
■■■bool changed■= false;
■■■bool hit_limit■= false;
■■■if ( m_ResizeHorizontal && x != new_x )
\blacksquare new_x = x + m_HorizontalOffset;
■■■ changed = true;
}
■■■else
\blacksquare new_x = o_x;
■■■if ( m_ResizeVertical && y != new_y )
■■■new_y = y + m_VerticalOffset;
■■■■changed = true;
---
■■else
```

```
class SkateHelmet_ColorBase extends HelmetBase
 class SkateHelmet_Black extends SkateHelmet_ColorBase {};
 class SkateHelmet_Blue extends SkateHelmet_ColorBase {};
class SkateHelmet_Gray extends SkateHelmet_ColorBase {}; class SkateHelmet_Green extends SkateHelmet_ColorBase {};
 class SkateHelmet_Red extends SkateHelmet_ColorBase {};
// ----- Skirt_ColorBase.c - START ------
 class Skirt_ColorBase extends Clothing
 ■override void SetActions()
  ■■super.SetActions();
 ■■AddAction(ActionWringClothes);
 class Skirt_Blue extends Skirt_ColorBase {};
 class Skirt_Red extends Skirt_ColorBase {};
 class Skirt_White extends Skirt_ColorBase {};
 class Skirt_Yellow extends Skirt_ColorBase {};
 // -----
// ----- SkorpionRecoil.c - START -----
 class Cz61Recoil: RecoilBase
  override void Init()
 ■■vector point_1;
 ■■vector point_2;
 ■■vector point_3;
 ■■vector point_4;
 ■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSy
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncMan
■■point_4[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
  HandsCurvePoints Insert(noint 1)://forms a 2 dimensional spline(z is ignored)
```

```
// ----- SKS.c - START ------
enum SKSAnimState
■DEFAULT ■■■= 0, ■///< default weapon state, closed and discharged
■OPENED ■■■= 1,
■JAMMED ■■■= 2,
enum SKSStableStateID
ÙUNKNOWN■■■= 0,
■SKS_CLO_BU0■■= 1,
■SKS_CLO_BU1■■= 2,
■SKS_OPN_BU0■■= 3,
■SKS_JAM_BU1 ■= 4
class SKS_CLO_BU0 extends WeaponStableState
`■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {        wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.ŎnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return SKSStableStateID.SKS_CLO_BU0; }
■override bool HasBullet () { return false; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.E}; }
class SKS_CLO_BU1 extends WeaponStableState
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return SKSStableStateID.SKS_CLO_BU1; }
■override bool HasBullet () { return true; }
■override bool HasMagazine () { return false; }
■override bool IsJammed () { return false; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.L}; }
class SKS_OPN_BU0 extends WeaponStableState
■override void OnEntry (WeaponEventBase e) {  if (LogManager.IsWeaponLogEnable()) {        wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.OnExit(e); if (LogManager.IsWeaponLogEnable()) {
■override int GetCurrentStateID () { return SKSStableStateID.SKS_OPN_BU0; }
■override bool HasBullet () { return false; }
■override bool HasMagazine () { return false; }
■ override bool IsJammed () { return false; } ■ override bool IsBoltOpen () { return true; }
■override bool IsRepairEnabled () { return true; }
■override void InitMuzzleArray () { m_muzzleHasBullet = {MuzzleState.E}; }
class SKS_JAM_BU1 extends WeaponStateJammed
■override void OnEntry (WeaponEventBase e) { if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnf
■override void OnExit (WeaponEventBase e) { super.ŎnExit(e); if (LogManager.IsWeaponLogEnable()) { 
■override int GetCurrentStateID () { return SKSStableStateID.SKS_JAM_BU1; }
```

moverride bool HasBullet () { return true; }
moverride bool HasBagazine () { return false; }

```
// ----- SKSRecoil.c - START ------
class SKSRecoil: RecoilBase
■override void Init()
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 1;
■■m_MouseOffsetRangeMin = 50;//in degrees min
■■m_MouseOffsetRangeMax = 120;//in degrees max
■■m_MouseOffsetDistance = 1.4;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.5;//[0..1] a time it takes to move the mouse the required distance rela
■■m_CamOffsetDistance = 0.015;
■■m_CamOffsetRelativeTime = 1;
}
// -----
// ----- SKSRecoil.c - END -----
// -----
// ----- SKS_Bayonet.c - START -----
class SKS_Bayonet extends Inventory_Base
■override bool IsMeleeFinisher()
■ return true;
■override array<int> GetValidFinishers()
■■return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■if ( parent.FindAttachmentBySlotName("suppressorImpro") == null && parent.FindAttachmentBySlotName
```

return true:

```
// ----- SlacksPants_ColorBase.c - START ------
class SlacksPants_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class SlacksPants_Beige extends SlacksPants_ColorBase {};
class SlacksPants_Black extends SlacksPants_ColorBase {};
class SlacksPants_Blue extends SlacksPants_ColorBase {};
class SlacksPants_Brown extends SlacksPants_ColorBase {};
class SlacksPants_DarkGrey extends SlacksPants_ColorBase {};
class SlacksPants_Khaki extends SlacksPants_ColorBase {};
class SlacksPants_LightGrey extends SlacksPants_ColorBase {}; class SlacksPants_White extends SlacksPants_ColorBase {};
// ----- SlacksPants_ColorBase.c - END ------
// -----
// -----
// ----- SledgeHammer.c - START -----
class SledgeHammer extends Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionClapBearTrapWithThisItem);
■■AddAction(ActionMineRock);
■■AddAction(ActionDismantlePart);
■■AddAction(ActionBuildPart);
■■//AddAction(ActionDestroyPart);
■}
// -----
// ----- SledgeHammer.c - END ------//
// ----- SlicedPumpkin.c - START ------
class SlicedPumpkin : Edible_Base
■override bool CanBeCooked()
```

return true:

```
// ----- Slot.c - START -----
enum eFertlityState
\blacksquareNONE = 0,
■FERTILIZED = 1
■//This will be used to set bit values (DO NOT ADD MORE VALUES)
enum eWateredState
\blacksquareDRY = 0,
■WET = 1
■//Used to improve readability of watered state changes
class Slot
■static const int ■■STATE_DIGGED ■■= 1;
■static const int ■■STATE_PLANTED ■■= 2;
■private int ■■■m_WaterQuantity;
■static private int ■■m_WaterNeeded ■■= 190; // How much water is needed to water a plant from a bot
■static private int ■■m_WaterMax ■■■= 200;
■float m_Fertility;
■float m_FertilizerUsage;
■float m_FertilizerQuantity;
■int m_slotIndex;
■int m_slotId;
■string m_FertilizerType;
■int m_FertilityState = eFertlityState.NONE;
■int m_WateredState = eWateredState.DRY;
■string m_DiggedSlotComponent; // example: "Component02" for the 1st slot in GardenBase
■string m_PlantType;
■private ItemBase m_Seed;
■private GardenBase m_Garden;
■float m_HarvestingEfficiency;
■int m_State;
■private PlantBase m_Plant;
■void Slot( float base_fertility )
■■m_Seed = NULL;
\blacksquare \blacksquare m_Plant = NULL;
■■m_WaterQuantity = 0.0;
■■Init( base_fertility );
■}
■void ~Slot()
■■if (m_Plant && GetGame()) // GetGame() returns NULL when the game is being quit!
■■GetGame().ObjectDelete( GetPlant() );
```

==}

```
----- SlotsContainer.c - START -----
class SlotsContainer: Container
■protected ref array<ref SlotsIcon>■m_Icons;
■int m_VisibleColumnCount;
■void SlotsContainer( LayoutHolder parent, EntityAl slot_parent )
m_lcons = new array<ref Slotslcon>;
\blacksquarefor (int i = 0; i < ITEMS_IN_ROW; i++)
■■■if ( GetRootWidget().FindAnyWidget( "Icon" + i ) )
■■■■m_lcons.Insert( new SlotsIcon( this, GetRootWidget().FindAnyWidget( "Icon" + i ), i , slot_parent) );
else
{
■■■Widget child = GetRootWidget().GetChildren();
■■■■while ( child )
■■■■child = child.GetSibling();
■override void SetDefaultFocus( bool while_micromanagment_mode = false )
■■m_FocusedColumn = 0;
\blacksquarefor (int i = 0; i < GetColumnCount(); i++)
■■■Slotslcon icon = m_lcons[i];
■■■if (icon.lsVisible())
■■■m_FocusedColumn = i;
■■■break;
}
| | |
■■SetFocus( m_FocusedColumn );
■}
■override void SetLastFocus()
■■SetDefaultFocus();
■}
■void SetFocus( int index )
\blacksquare if (index >= 0 && index < m_lcons.Count())
■■m_lcons.Get( index ).GetCursorWidget().Show( true );
■UpdateIcon();
■void SetVisibleFocus(int index)
■■Unfocus();
■■int visible_icons_count = 0;
```

```
// ----- SlotsIcon.c - START -----
class SlotsIcon: LayoutHolder
■protected static int ■■■m_NormalWidth;
■protected static int ■■■m_NormalHeight;
■protected bool■■■■■m_lsWeapon■■= false;
■protected bool
■■■ IsMagazine
= false;
■protected bool■■■■■m_HasTemperature■= false;
■protected bool
■■■■■m_HasQuantity
■= false;
■protected bool■■■■■m_HasItemSize■= false;
■protected float■■■■m_CurrQuantity■■= -1;
■protected EntityAl■■■m_Obj;
■protected ItemBase■■■m_Item;
■protected EntityAl■■■m_SlotParent;
■protected Container
■■■m_Container;
■protected int■■■■m_SlotID;
■protected bool■■■■■m_lsDragged■■= false;
■protected Widget■■■m_PanelWidget;
■protected Widget■■■m_CursorWidget;
■protected Widget■■■m_ColWidget;
■protected Widget■■■■ MountedWidget;
■protected Widget■■■m_OutOfReachWidget;
■protected Widget■■■m_ReservedWidget;
■protected ItemPreviewWidget■■m ItemPreview;
■protected ImageWidget■■m_GhostSlot;
■protected Widget■■■m_ColorWidget;
■protected Widget■■■m_SelectedPanel;
■protected Widget■■■m_EmptySelectedPanel;
■protected Widget■■■m QuantityPanel:
■protected TextWidget■■m_QuantityItem;
■protected ProgressBarWidget■■m_QuantityProgress;
■protected Widget■■■m_QuantityStack;
■protected string■■■■m_SlotDisplayName;
■protected string
■■■m_SlotDesc;
■protected Widget■■■m_ItemSizePanel;
■protected TextWidget■■m_ItemSizeWidget;
■protected Widget■■■m_Ammolcon;
■protected Widget■■■m_RadialIconPanel;
■protected Widget■■■m_RadialIconClosed;
■protected Widget■■■m_RadialIcon;
■protected bool■■■■■m_Reserved;
■void SlotsIcon( LayoutHolder parent, Widget root, int index, EntityAl slot_parent )
■■m_MainWidget■■= root;
```

■■m Panel/Widget■■■- m Main/Widget FindAny/Widget("Panel/Widget" + index):

```
// ----- SmallGasCannister.c - START ------
class SmallGasCannister extends ItemBase
■override bool CanExplodeInFire()
■ return true;
// ----- SmallGasCannister.c - END -----
// ----- SmallGuts.c - START -----
class SmallGuts extends Edible_Base
■override bool CanPutAsAttachment( EntityAl parent )
■■if(!super.CanPutAsAttachment(parent)) {return false;}
■■const int SLOTS_ARRAY = 8;
■■bool is_barrel = false;
■■bool is_opened_barrel = false;
■■bool slot_test = true;
■■string slot_names[SLOTS_ARRAY] = { "BerryR", "BerryB", "Nails", "OakBark", "BirchBark", "Lime", "Dis
■■// is barrel
■■if (parent.lsKindOf("Barrel_ColorBase"))
■■■is_barrel = true;
==}
■■// is opened barrel■■■■
■■if ( is_barrel && parent.GetAnimationPhase("Lid") == 1 )
■■■is_opened_barrel = true;
■■// all of the barrel slots are empty
■■for ( int i = 0; i < SLOTS_ARRAY ; i++ )
■■■if ( parent.FindAttachmentBySlotName(slot_names[i]) != NULL )
■■■slot_test = false;
■■■break;
■■■}
| ||
■■if ( ( is_opened_barrel && slot_test ) || !is_barrel )
■■return true;
```

■return false:

```
// ----- SmershBag.c - START -----
class SmershBag extends Clothing
};
// ----- SmershBag.c - END ------//
// ----- SmershVest.c - START ------
class SmershVest extends Clothing
■override void EEItemAttached(EntityAl item, string slot_name)
■■super.EEItemAttached(item,slot_name);
■■if (SmershBag.Cast(item))
■■ShowSelection("Buttpack");
■override void EEItemDetached(EntityAI item, string slot_name)
■■super.EEItemDetached(item,slot_name);
■■if (SmershBag.Cast(item))
■■ HideSelection("Buttpack");
--
// -----
// ----- SmershVest.c - END -----
// ----- SmokeGrenadeBase.c - START -----
enum ESmokeGrenadeState
■NO_SMOKE \blacksquare= 0
■START ■ ■= 1,
\blacksquareLOOP \blacksquare \blacksquare= 2,
■END■■= 3,
```

I//I ---

```
----- SmokeSimulation.c - START -----
class SmokeSimulation: Entity
■protected Particle ■■■m_ParMainSmoke;
■int particle_id;
■void SmokeSimulation()
■ particle_id = ParticleList.GRENADE_M18_PURPLE_LOOP;
■void OnFire(Entity flare)
■ ParMainSmoke = ParticleManager.GetInstance().PlayOnObject( particle_id, flare);
■■m_ParMainSmoke.SetWiggle(7, 0.3);
■void ~SmokeSimulation()
■if (m_ParMainSmoke)
■■■m_ParMainSmoke.Stop();
class SmokeSimulation_Black : SmokeSimulation
■void SmokeSimulation_Black()
■ particle_id = ParticleList.GRENADE_M18_BLACK_LOOP;
■}
class SmokeSimulation_White : SmokeSimulation
■void SmokeSimulation_White()
■particle_id = ParticleList.GRENADE_M18_WHITE_LOOP;
class SmokeSimulation_Red : SmokeSimulation
■void SmokeSimulation_Red()
particle_id = ParticleList.GRENADE_M18_RED_LOOP;
class SmokeSimulation_Green : SmokeSimulation
■void SmokeSimulation_Green()
■ particle_id = ParticleList.GRENADE_M18_GREEN_LOOP;
// ----- SmokeSimulation.c - END -----
```

```
----- SmptAnimMeta.c - START ------
enum eAnimFinishType
■SUCCESS,
■FAILURE,
class SmptAnimMetaBase
■bool■m_lsPlaying;
■SymptomManager m_Manager;
■PlayerBase m_Player;
■int m_AnimID;
■int m_SymptomType;
■bool m_DestroyRequested;
■bool m_Canceled;
■void SmptAnimMetaBase()
■void Init(ParamsReadContext ctx, SymptomManager manager, PlayerBase player)
■■m_Manager = manager;
■■m_Player = player;
■bool IsPlaying()
■■return m_lsPlaying;
■bool IsDestroyReqested()
■■return m_DestroyRequested;
■void AnimFinished(eAnimFinishType type)
m_DestroyRequested = true;
■■SymptomBase Symptom = m_Manager.GetCurrentPrimaryActiveSymptom();
■■if( type == eAnimFinishType.FAILURE)// <------FAILED
■■■if( m_Player.GetInstanceType() == DayZPlayerInstanceType.INSTANCETYPE_SERVER || !GetGam
 I■■if( Symptom )
■■■■Symptom.AnimationPlayFailed();
■■else if( type == eAnimFinishType.SUCCESS)// <------ SUCCESS
■■■if( m_Player.GetInstanceType() == DayZPlayerInstanceType.INSTANCETYPE_SERVER || !GetGam
■■■if( Symptom )
```

Symptom AnimationFinish()

```
// ----- Sneakers_ColorBase.c - START ------
class Sneakers_ColorBase extends Clothing {};
class Sneakers_Black extends Sneakers_ColorBase {};
class Sneakers_Gray extends Sneakers_ColorBase {};
class Sneakers_Green extends Sneakers_ColorBase {};
class Sneakers_Red extends Sneakers_ColorBase {};
class Sneakers_White extends Sneakers_ColorBase {};
// ----- Sneakers_ColorBase.c - END ------
// ----- SneezeState.c - START ------//
class SneezeSymptom extends SymptomBase
■//this is just for the Symptom parameters set-up and is called even if the Symptom doesn't execute, don't
■overridé void OnInit()
■■m_SymptomType = SymptomTypes.PRIMARY;
\blacksquare \blacksquare m_Priority = 100;
■ m_ID = SymptomIDs.SYMPTOM_SNEEZE;
■■m_DestroyOnAnimFinish = true;
■■m_SyncToClient = false;
■}
■//!gets called every frame
■override void OnUpdateServer(PlayerBase player, float deltatime)
[
|
■override void OnUpdateClient(PlayerBase player, float deltatime)
■//!gets called once on an Symptom which is being activated
■override void OnGetActivatedServer(PlayerBase player)
■■if (LogManager.IsSymptomLogEnable()) Debug.SymptomLog("n/a", this.ToString(), "n/a", "OnGetActivatif (m_Manager.GetCurrentCommandID() == DayZPlayerConstants.COMMANDID_MOVE &&!player.Is
■■■PlayAnimationADD(0);
——}
■■else
■■■PlaySound(EPlayerSoundEventID.SYMPTOM_SNEEZE);
■■player.SpreadAgentsEx(3);
■//!gets called once on an Symptom which is being activated
```

■override void OnGetActivatedClient(PlayerBase player)

```
// ----- SodaCan_ColorBase.c - START ------
class SodaCan_ColorBase : Edible_Base
■override void SetActions()
■■super.SetActions();
■■//AddAction(ActionWashHandsItem);
■■AddAction(ActionForceDrink);
■■AddAction(ActionDrinkCan);
■}
// -----
// -----
// ----- SodaCan_Empty.c - START -----
// -----
class SodaCan_Empty extends ItemBase {}
// ----- SodaCan_Empty.c - END -----
// ----- SoftSkillsManager.c - START -----
// -----
class SoftSkillsManager
■protected PlayerBase■■■m_Player;
■protected float ■■■m_SpecialtyLevel;
■protected float ■■■m_RoughLevel;
■protected float ■■■■m_PreciseLevel;
■protected bool■■■■■m_lsLinear;
protected bool
■protected bool■■■■■m_lsCoolDown;
■protected int ■■■■■m_UserActionsCounter;■
■static protected const int ■■DEFAULT_EFFICIENCY = 0;
■ static protected const float ■ PRECISE_WEIGHT_LIMIT = -1; ■ static protected const float ■ ROUGH_WEIGHT_LIMIT = 1;
■static protected const float ■COOLDOWN_TIMER = 5; //default 5,
■protected ref Timer ■■■m_CoolDownTimer = new Timer();
```

Inrotected hool

```
// ----- someMission.c - START ------
Mission CreateMission(string path)
Print("Creating Mission: "+ path);
■// g_Game.SetMissionPath(path); Done from C++ now
■if (g_Game.lsMultiplayer() && g_Game.lsServer())
■ return new MissionServer;
|
#ifdef NO_GUI
■return new MissionDummy;
#endif
■MissionMainMenu m;
■if (path.Contains("NoCutscene"))
■ m = new MissionMainMenu();
■m.m_NoCutscene = true;
■■return m;
|
■if (path.Contains("intro"))
■■m = new MissionMainMenu();
■m.m_NoCutscene = false;
■■return m;
■}
■else
■if( path == "" )
■ return new MissionDummy;
#ifndef NO_GUI_INGAME
■■return new MissionGameplay;
■■return new MissionDummy;
#endif
■}
// ----- someMission.c - END -------//
// ----- Sound.c - START -----
enum WaveKind
■WAVEEFFECT.
```

■\MA\/FEFFECTEX

```
---- SoundEvents.c - START ------
class SoundEventBase
■AbstractWave ■m_SoundSetCallback;
■int ■■■m_Type;
■int ■■■m_IĎ;
■int ■■■m_SoundVoiceAnimEventClassID;
■bool ■■■m_RequestDestroy;
■string ■■■m_SoundSetNameRoot;
■bool ■■■m_SkipForControlledCharacter;
■int■■■m_Param;
■void ~SoundEventBase()
■■if(m_SoundSetCallback) m_SoundSetCallback.Stop();
■//obsolete function, now possible to set a param
■bool IsSkipForControlled()
■ return m_SkipForControlledCharacter;
■void Tick()
■■if(!m_SoundSetCallback)
■■m_RequestDestroy = true;
==}
■bool IsSoundCallbackExist()
■■if( m_SoundSetCallback )
■■return true;
■ return false;
■}
■bool IsDestroyRequested()
■■return m_RequestDestroy;
■bool CanPlay()
■ return true;
■bool Play()
■ return true;
■void OnPlay(PlayerBase player);
```

```
class SoundOnVehicle extends Entity
proto native float GetSoundLength();
class SoundWaveOnVehicle extends Entity
};
// ----- SoundOnVehicle.c - END -----
// ----- SoundSetMap.c - START ------
class SoundSetMap
■ref static map<int, string> m_SoundSetMapIDByID = new map<int, string>;
■ref static map<string, int> m_SoundSetMapIDByName = new map<string, int>;
■static void Init()
■■string path = "CfgSoundSets";
■■int soundCount = GetGame().ConfigGetChildrenCount(path);
\blacksquarefor (int i = 1; i < soundCount; i++)
■■string soundClassName;
■■■GetGame().ConfigGetChildName(path, i, soundClassName);
■■■m_SoundŠetMapĬDByID.Insert(i,soundClassName);
■■■m_SoundSetMapIDByName.Insert(soundClassName,i);
■■■//PrintString(soundClassName);
——}
■static string GetSoundSetName(int id)
■■return m_SoundSetMapIDByID.Get(id);
■static int GetSoundSetID(string name)
■■return m_SoundSetMapIDByName.Get(name);
}
// ----- SoundSetMap.c - END -----
```

```
// ----- SpacerBase.c - START ------//
class SpacerBase: ScriptedWidgetEventHandler
■protected Widget m_root;
■protected int m_count;
■void OnWidgetScriptInit(Widget w)
\blacksquarem_root = w;
\blacksquare m_count = 0;
■■Widget child = m_root.GetChildren();
■ while (child)
----
■■m_count++;
■■■child.SetFlags(WidgetFlags.EXACTPOS | WidgetFlags.EXACTSIZE, false);
■■child = child.GetSibling();
——}
■■m_root.SetHandler(this);
■override bool OnUpdate(Widget w)
■if (w == m_root) UpdateLayout();
■ return false:
■}
■override bool OnChildAdd( Widget w, Widget child)
■{
■m_count++;
■■child.SetFlags(WidgetFlags.EXACTPOS | WidgetFlags.EXACTSIZE, false);
■ return false;
■override bool OnChildRemove(Widget w, Widget child)
■m_count--;
■ return false;
I// -----
■protected int GetChildIndex(Widget w)
■■Widget child = m_root.GetChildren();
\blacksquareint index = 0;
■ while (child)
■■if (child == w) return index;
■■■index++;
■■child = child.GetSibling();
```

```
class SpaghettiCan: Edible_Base
■override void Open()
■■ReplaceEdibleWithNew("SpaghettiCan_Opened");
■override bool IsOpen()
■ return false;
// ------ SpaghettiCan.c - END -------------------// -------
// ----- SpaghettiCan_Opened.c - START ------
class SpaghettiCan_Opened: Edible_Base
■override bool CanDecay()
■return true;
■override bool CanProcessDecay()
■ireturn !(GetAgents() & eAgents.FOOD_POISON);
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeedCan);
■■AddAction(ActionEatCan);
// ----- SpaghettiCan_Opened.c - END ------
```

```
//! Trigger with spherical shape class SphereTrigger : Trigger
■override void EOnInit(IEntity other, int extra)
■■SetCollisionSphere(3);
#ifdef DEVELOPER
■override protected Shape DrawDebugShape(vector pos, vector min, vector max, float radius, int color)
■ Shape dbgShape = Debug.DrawSphere(pos, radius, color, ShapeFlags.TRANSP|ShapeFlags.NOZWR
■■dbgTargets.Insert( dbgShape );
■■return dbgShape;
#endif
};
// ------ SphereTrigger.c - END ------
// -----
// ----- Splint.c - START ------//
class Splint: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionSplintTarget);
■■AddAction(ActionSplintSelf);
■}
class Splint_Applied: Clothing
■void ~Splint_Applied()
// ----- Splint.c - END -----
// -----
```

```
// ----- SplitBroom.c - START -----
class SplitBroom extends RecipeBase
■override void Init()
[
■■m_Name = "#STR_split0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
 ■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Broom");//you can insert multiple ingredients this way
■■InsertIngredient(0,"Broom_Birch");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[0] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = true;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Sickle");//you can insert multiple ingredients this way ■■InsertIngredient(1,"KukriKnife");

    Insertingredient(1, "Rukhikhile");
    Insertingredient(1, "FangeKnife");
    Insertingredient(1, "Hacksaw");
    Insertingredient(1, "KitchenKnife");

    Insertingredient(1,"KitchenKnife");
    Insertingredient(1,"SteakKnife");
    Insertingredient(1,"HayHook");
    Insertingredient(1,"ComeKnife");
    Insertingredient(1,"Cleaver");
    Insertingredient(1,"CombatKnife");
    Insertingredient(1,"HuntingKnife");
    Insertingredient(1,"Machete");

    Insertingredient(1, Machete );
    InsertIngredient(1, "CrudeMachete");
    InsertIngredient(1, "OrientalMachete");
    InsertIngredient(1, "Crowbar");
    InsertIngredient(1, "Pickaxe");

Insertingredient(1, Fickaxe ),
Insertingredient(1, "WoodAxe");
Insertingredient(1, "Hatchet");
Insertingredient(1, "FirefighterAxe");
Insertingredient(1, "Sword");
Insertingredient(1, "AK Bayonet");
```

```
// ----- SplitFirewood.c - START -----
class SplitFirewood extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_split0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Firewood");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -1;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2

InsertIngredient (1,"Hacksaw");
InsertIngredient (1,"HandSaw");
InsertIngredient (1,"Pickaxe");
InsertIngredient (1,"WoodAxe");
InsertIngredient (1,"Hatchet");
InsertIngredient (1,"FirefighterAxe");

\blacksquarem_IngredientAddHealth[1] = -4;// 0 = do nothing
■ IngredientSetHealth[1] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = true;// set 'true' to allow modification of the values by softskills on this in
■■//result1
■■AddResult("WoodenStick");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = 3;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
```

m_ResultInheritsHealth[0] = 0;// (value) == -1 means do nothing; a (value) >= 0 means this result will in ResultInheritsColor[0] = -1:// (value) == -1 means do nothing; a (value) >= 0 means this result class:

```
// ----- SplitItemUtils.c - START ------
class SplitItemUtils
■static void TakeOrSplitToInventory (notnull PlayerBase player, notnull EntityAl target, notnull EntityAl ite
■■ItemBase item_base = ItemBase.Cast( item );
■■if(!item.GetInventory().CanRemoveEntity() || !player.CanManipulateInventory() )
■■return:
■■InventoryLocation il = new InventoryLocation;
■■if( target.GetInventory().FindFreeLocationFor( item, FindInventoryLocationType.ANY, il) )
■■■if( item_base.GetTargetQuantityMax(il.GetSlot()) >= item_base.GetQuantity() )
  ■■■if( il.GetType() == InventoryLocationType.ATTACHMENT )
  I■■■player.PredictiveTakeEntityToTargetAttachmentEx(il.GetParent(), item, il.GetSlot());
 ■ else
  I■■■InventoryLocation src = new InventoryLocation;
 I■■■■if (item.GetInventory().GetCurrentInventoryLocation(src))
■■■■■■player.PredictiveTakeToDst(src, il);
}
}
■■else
■■■item_base.SplitIntoStackMaxClient( il.GetParent(), il.GetSlot() );
■■}
■static void TakeOrSplitToInventoryLocation (notnull PlayerBase player, notnull InventoryLocation dst)
■■ItemBase item_base = ItemBase.Cast( dst.GetItem() );■
\blacksquareint slot = dst.GetSlot();
■■if(!dst.GetItem().GetInventory().CanRemoveEntity() || !player.CanManipulateInventory() )
■■return:
■■float stack_max = item_base.GetTargetQuantityMax(slot);
■■if( stack_max >= item_base.GetQuantity() )
■■InventoryLocation src = new InventoryLocation;
■■■if (dst.GetItem().GetInventory().GetCurrentInventoryLocation(src))
■■■■player.PredictiveTakeToDst(src, dst);
■■else
■■■■Error("TakeIntoCargoEx cannot get src for dst=" + dst.DumpToString());
■Eelse
■■■item_base.SplitIntoStackMaxToInventoryLocationClient( dst );
```

```
// ----- SplitLongWoodenStick.c - START -----
class SplitLongWoodenStick extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_split0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m MaxQuantityIngredient[1] = -1;//-1 = disable check
 ■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"LongWoodenStick");//you can insert multiple ingredients this way
■■InsertIngredient(0, "SharpWoodenStick");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = true;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Sickle");//you can insert multiple ingredients this way ■■InsertIngredient(1,"KukriKnife");

    Insertingredient(1, "Rukhikhile");
    Insertingredient(1, "FangeKnife");
    Insertingredient(1, "Hacksaw");
    Insertingredient(1, "KitchenKnife");

    Insertingredient(1,"KitchenKnife");
    Insertingredient(1,"SteakKnife");
    Insertingredient(1,"HayHook");
    Insertingredient(1,"ComeKnife");
    Insertingredient(1,"Cleaver");
    Insertingredient(1,"CombatKnife");
    Insertingredient(1,"HuntingKnife");
    Insertingredient(1,"Machete");

    Insertingredient(1, Machete );
    InsertIngredient(1, "CrudeMachete");
    InsertIngredient(1, "OrientalMachete");
    InsertIngredient(1, "Crowbar");
    InsertIngredient(1, "Pickaxe");

Insertingredient(1, Fickaxe ),
Insertingredient(1, "WoodAxe");
Insertingredient(1, "Hatchet");
Insertingredient(1, "FirefighterAxe");
Insertingredient(1, "Sword");
Insertingredient(1, "AK Bayonet");
```

```
// ----- SplitStones.c - START ------
class SplitStones extends RecipeBase
■override void Init()
■{
■■m_Name = "#STR_split0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
m_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = 1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0, "Stone");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■m_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = -1;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Pickaxe");//you can insert multiple ingredients this way
■■InsertIngredient(1,"SledgeHammer");//you can insert multiple ingredients this way
■■InsertIngredient(1,"Hammer");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = -4;// 0 = do nothing
■■m_IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = true;// set 'true' to allow modification of the values by softskills on this in
■■//result1
■■AddResult("SmallStone");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result will i
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
```

■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this result manner of the values by softskills on this result manner of the value is a value in the value in the value is a value in the value in the value is a value in the value in the value in the value is a value in the value in t

```
// ----- SpookyArea.c - START -----
// The base area for Spooky land, spooky particles and spooky triggers for a spooky halloween
class SpookyArea: EffectÁrea
I// -----
■// ■■■■INITIAL SETUP
■override void SetupZoneData( EffectAreaParams params )
■■super.SetupZoneData( params );
■override void EEInit()
■■// We make sure we have the particle array
■■if (!m_ToxicClouds)
■■■m_ToxicClouds = new array<Particle>;
■■SetSynchDirty();
■■#ifdef DEVELOPER
■■// Debugs when placing entity by hand using internal tools
■■if ( GetGame().IsServer() && !GetGame().IsMultiplayer() )
■■■Debug.Log("YOU CAN IGNORE THE FOLLOWING DUMP");
■■■InitZone():
■■■Debug.Log("YOU CAN USE FOLLOWING DATA PROPERLY");
■#endif
if (GetGame().IsClient() && GetGame().IsMultiplayer() )
■■InitZone();
■■super.EEInit();
■// We spawn particles and setup trigger
■override void InitZone()
■■super.InitZone();
■override void InitZoneServer()
■■super.InitZoneServer();
■■// We create the trigger on server
■■if ( m_TriggerType != "" )
■■CreateTrigger( m_Position, m_Radius );
■}
■override void InitZoneClient()
■■super.InitZoneClient();
■■// We spawn VFX on client
■■PlaceParticles(GetWorldPosition(), m_Radius, m_InnerRings, m_InnerSpacing, m_OuterRingToggle,
```

```
// Halloween related, create a spooky ambiance in designated areas
class SpookyTrigger extends EffectTrigger
// ----- SpookyTrigger.c - END ------//
class SportGlasses_ColorBase extends Clothing
override bool CanPutAsAttachment(EntityAl parent)
■if (!super.CanPutAsAttachment(parent))
■■ return false:
Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if (mask && mask.ConfigGetBool("noEyewear"))
■ return false;
——}
■■return true;
class SportGlasses_Black extends SportGlasses_ColorBase
■override int GetGlassesEffectID()
■■return PPERequesterBank.REQ_GLASSESSPORTBLACK;
class SportGlasses_Blue extends SportGlasses_ColorBase
■override int GetGlassesEffectID()
■ return PPERequesterBank.REQ_GLASSESSPORTBLUE;
};
class SportGlasses_Green extends SportGlasses_ColorBase
■override int GetGlassesEffectID()
■ return PPERequesterBank.REQ_GLASSESSPORTGREEN;
```

```
// ----- Spotlight.c - START ------
class Spotlight extends ItemBase
■private bool m_lsFolded;
■private bool ■m_EvaluateDeployment;
■SpotlightLight ■m_Light;
■static vector ■m_LightLocalPosition;
■static vector ■m_LightLocalOrientation = "0 0 0";
// Spotlight can be extended and compressed
■ static const string SEL_REFLECTOR_COMP_U ■ = "reflector"; ■ static const string SEL_CORD_FOLDED_U ■ = "cord_folded";
■static const string SEL_CORD_PLUGGED_U ■■■= "cord_plugged";
■static const string SEL_CORD_PLUGGED_F ■■■= "spotlight_folded_cord_plugged";
■static const string SEL_CORD_FOLDED_F ■■■= "spotlight_folded_cord_folded";
■static const string SEL_INVENTORY ■■■■= "inventory";
■ static const string SEL_PLACING ■■■■ = "placing"; ■ static const string SEL_GLASS_F ■■■■ = "glass_folded";
■static const string SEL_GLASS_U ■■■■= "glass_unfolded";
■static const string SEL_REFLECTOR_F■■■= "reflector_folded";
■static const string SEL_REFLECTOR_U■■■= "reflector_unfolded";
■static const int ■ID GLASS UNFOLDED■■= 3:
■static const int ■ID_REFLECTOR_UNFOLDED■■= 4;
■static const int ■ID_GLASS_FOLDED■■■= 5;
■static const int ■ID_REFLECTOR_FOLDED■■= 6;
■ static string ■■LIGHT_OFF_GLASS ■■■= "dz\\gear\\camping\\Data\\spotlight_glass.rvmat";
■ static string ■■LIGHT_OFF_REFLECTOR ■■= "dz\\gear\\camping\\Data\\spotlight.rvmat";
■static string ■■LIGHT_ON_GLASS ■■■■= "dz\\gear\\camping\\Data\\spotlight_glass_on.rvmat";
■static string ■■LIGHT_ON_REFLECTOR ■■■= "dz\\gear\\camping\\Data\\spotlight_glass_on.rvmat";
■//sound
■const string ■■■■SOUND TURN ON■■= "spotlight turn on SoundSet":
■const string ■■■■SOUND_TURN_OFF■■= "spotlight_turn_off_SoundSet";
■protected EffectSound ■m_SoundTurnOn;
■protected EffectSound ■m SoundTurnOff;
■protected EffectSound ■m_DeployLoopSound;
■//Spotlight, folded and unfolded
■void Spotlight()
■■m_EvaluateDeployment = false;
■■RegisterNetSyncVariableBool("m_IsSoundSynchRemote");
■■RegisterNetSyncVariableBool("m_IsDeploySound");
■■RegisterNetSyncVariableBool("m_IsFolded");
■}
■void ~Spotlight()
■■if (m_DeployLoopSound)
■■■SEffectManager.DestroyEffect(m_DeployLoopSound);
```

■override hool IsFlectricAppliance()

```
class SpotLightBase extends ScriptedLightBase
■void SpotLightBase()
■■SetLightType(LightSourceType.SpotLight); // This function must be called in constructor of the light!
// ----- SpotLightBase.c - END ------
// ----- SpotlightLight.c - START -----
class SpotlightLight extends SpotLightBase
■void SpotlightLight()
■{
■■SetVisibleDuringDaylight(true);
■■SetRadiusTo(60);
■■SetSpotLightÀngle(140);
■■SetCastShadow(true);
■■SetBrightnessTo(20.0);
■■SetFadeOutTime(0.3);
\blacksquareFadeIn(0.2);
■SetAmbientColor(0.8, 0.9, 1.0);
■ SetDiffuseColor(0.8, 0.9, 1.0);
■}
// -----
// ----- SqfDebugWatcher.c - START -----
class SqfDebugWatcher
■private int m_ld;
■private string m_SqfCommand;
■private bool m_lsRunning;
■void SqfDebugWatcher( int id, string sqf_command )
\blacksquarem_ld = id;
```

■■m SafCommand – saf command:

```
// ----- SSG82.c - START ------
class SSG82_Base : BoltActionRifle_ExternalMagazine_Base
■override bool CanEnterIronsights()
■return false;
■override void AssembleGun()
■ super. Assemble Gun();
■■if (!FindAttachmentBySlotName("weaponOpticsAug"))
■■■GetInventory().CreateAttachment("SSG82Optic");
——}
■}
■override RecoilBase SpawnRecoilObject()
■ return new SSG82Recoil(this);
■//Debug menu Spawn Ground Special■/*override void OnDebugSpawn()
■■super.OnDebugSpawn();
■}*/
class SSG82Optic: ItemOptics
■override bool CanPutAsAttachment( EntityAl parent )
■return true;
■}
// ----- SSG82.c - END -----
// ----- SSG82Recoil.c - START ------
class SSG82Recoil: RecoilBase
■override void Init()
■■vector point_1;
■■vector point_2;
■■vector point_3;
■■vector point_4;
■■noint 1[0] – m. Player GetRandomGeneratorSyncManager() GetRandomInRange(RandomGeneratorS
```

```
// ----- Ssh68Helmet.c - START ------
class Ssh68Helmet extends HelmetBase
// ----- Ssh68Helmet.c - END ------
// ----- StaminaEvents.c - START ------
class StaminaSoundEventBase extends PlayerSoundEventBase
■const int MAX_VOLUME = 4;
■void StaminaSoundEventBase()
■ Type = EPlayerSoundEventType.STAMINA;
■■m_HasPriorityOverTypes = EPlayerSoundEventType.STAMINA;
■override bool HasPriorityOverCurrent(PlayerBase player, EPlayerSoundEventID other_state_id, EPlayer
■return false;
■override void OnPlay(PlayerBase player)
■ super.OnPlay(player);
■■MaskBase mask = MaskBase.Cast(player.GetInventory().FindAttachment(InventorySlots.GetSlotIdFroil
■■float rel_volume = 1;
■■if (mask)
■■■if (mask.lsExternalFilterAttached() || mask.HasIntegratedFilter())
■■■rel_volume = Math.Lerp(MAX_VOLUME,1,mask.GetFilterQuantity01());
■■if (m_SoundSetCallback)
■■m_SoundSetCallback.SetVolumeRelative(rel_volume);
■■#ifdef DIAG_DEVELOPER
■■if (!DiagMenu.GetBool(DiagMenuIDs.MISC_BREATH_VAPOR_LVL))//disabled in debug, do not spawr
■■return;
■#endif
■■if(player.CanSpawnBreathVaporEffect())
■■■player.SpawnBreathVaporEffect();
```

■■//!!! beware of the ifdef above, most likely you want to put your code above it, otherwise it might not ge

```
----- StaminaHandler.c - START ------
enum EStaminaMultiplierTypes
■MASK = 1,
■FATIGUE
■EPINEPHRINE,
■DROWNING.
/**@class

■Stamina Consumer
 @brief■Holds information about Stamina Consumer
  @param[in] threshold value needed to allow consume stamina
 @param[in] state keeps state of the consumer non-depleted/depleted
class StaminaConsumer
■protected float m_ActivationThreshold;
■protected float m_DrainThreshold
■protected bool m_State;
■void StaminaConsumer(float threshold, float threshold2, bool state)
■■m_ActivationThreshold = threshold; //can be activated if above this threshold
■■m_DrainThreshold = threshold2; //can continually drain until it reaches this threshold
■■m_State = state;
■bool GetState() { return m_State; }
■void SetState(bool state) { m_State = state; }
■float GetActivationThreshold() { return m_ActivationThreshold; }
■void SetActivationThreshold(float threshold) { m_ActivationThreshold = threshold; }
float GetDrainThreshold() { return m_DrainThreshold; }
■void SetDrainThreshold(float threshold) { m_DrainThreshold = threshold; }
class StaminaConsumers
■protected ref map<EStaminaConsumers, ref StaminaConsumer> m_StaminaConsumers;
■void StaminaConsumers()
■■m_StaminaConsumers = new map<EStaminaConsumers, ref StaminaConsumer>;
■void RegisterConsumer(EStaminaConsumers consumer, float threshold, float depletion_threshold = -1)
■■if (depletion_threshold == -1)
depletion_threshold = threshold;
}
■■if (!m_StaminaConsumers.Contains(consumer))
■■ //! init of StaminaConsumer - threshold, state
```

■■StaminaConsumer sc - new StaminaConsumer(threshold depletion threshold true):

```
----- StaminaSoundHandler.c - START ------
const float TICK_INTERVAL = 1;
const float STAMINA_SOUND_TR1 = 0.55;
const float STAMINA_SOUND_TR2 = 0.25;
enum eStaminaZones
■ZONE0,
■ZONE1,
■ZONE2,
enum eStaminaTendency
■UP.
■DOWN,
enum eStaminaState
\blacksquareZONE0_UP = 1,
■ZONE0_DOWN,
■ZONE1_UP,
■ZONE1 DOWN,
■ZONE2_UP,
■ZONE2_DOWN,
■//count bellow, add above
■COUNT
class SoundHandlerBase
■eSoundHandlers m_ld;
■PlayerBase m_Player;
■void Update();
■eSoundHandlers GetID()
■ return m_ld;
■void SoundHandlerBase(PlayerBase player)
■m_Player = player;
■Init();
■void Init();
class StaminaSoundHandlerBase extends SoundHandlerBase
■override void Init()
```

m Id − eSoundHandlers STΔMINA.

```
// ----- StanceIndicator.c - START ------
class StanceIndicator
  ■protected ref HumanMovementState■m_State;
■protected PlayerBase■■■m_Player;
■void StanceIndicator(PlayerBase player)
■■m_State = new HumanMovementState();
■■m_Player = player;
■}
 ■void Update()
■■if ( m_Player )
■■■m_Player.GetMovementState(m_State);
■■■int player_stance = m_State.m_iStanceldx;
■■■int hud_stance_id = 1;
■■■//if ( player_stance == DayZPlayerConstants.STANCEIDX_ERECT || player_stance == DayZPlayerConstants.STANCEIDX_CROUCH || player_stance == DayZPlayerConstants.STAN
\blacksquarehud_stance_id = 2;
■■■if ( player_stance == DayZPlayerConstants.STANCEIDX_PRONE || player_stance == DayZ
\blacksquare hud_stance_id = 3;
■■DisplayStance(hud_stance_id);
■■■//Debug
■■■//m_Player.MessageStatus(ToString(player) + "StanceIndicator.c || stance: " + ToString(player_stance)
==}
|
■void DisplayStance(int stance)
■if (m_Player)
■■DisplayElementBase stance_element = m_Player.GetVirtualHud().GetElement(eDisplayElements.DE
■■if(stance_element)
■■■stance_element.SetValue(stance);
■■■//m_Player.GetVirtualHud().SetValue(eDisplayElements.DELM_STANCE, stance);
|
};
// ----- StanceIndicator.c - END ------
```

```
// ----- StartKitIV.c - START -----
class StartKitIV: Inventory_Base {};
// ----- StartKitIV.c - END -----
// ----- StartupMenu.c - START -----
class StartupMenu extends UIScriptedMenu
■void StartupMenu()
■void ~StartupMenu()
■override Widget Init()
■ layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/startup.layout");
■■m_label = TextWidget.Cast( layoutRoot.FindAnyWidget("TextWidget") );
■■return layoutRoot;
■TextWidget m_label;
// ----- StartupMenu.c - END -----
// ----- StatDebugObject.c - START -----
class StatDebugObject
■string m_Name;
■float m_Value;
■eRemoteDebugType m_Type;
■void StatDebugObject(string name, float value, eRemoteDebugType type)
■ Name = name;
```

■■m Value – value:

```
// ----- StateBase.c - START ------
class SymptomBase
■const float MAX_TIME_ACTIVE_SAVEGUARD = 20;
■int m_Priority;
■SoundOnVehicle m_SoundObject;
■bool m_PlayedSound;
■bool m_lsActivated;
■PlayerBase m_Player;
■float m_ServerUpdateInterval = 1;
■float m_ServerUpdateDelta;
■bool m_lsTemplate = true;
■float m_ActivatedTime;
■int m_ID;//ID for the type of Symptom
■int m_UID;//unique ID
■bool m_IsClientOnly;
■bool m_DestroyOnAnimFinish = true;
■bool m_DestroyRequested = false;
■int m_SymptomType = -1;
■bool m_IsPersistent = false;
■SymptomManager m_Manager;
■bool m_SyncToClient = false;
■float m_Duration;
■bool m_AnimPlayRequested;
■int m_MaxCount = -1;//how many symptoms of this type can be queued up at the same time, '-1' for unlir
■SymptomCB m_AnimCallback;
■ref array<Param> m_PersistentParams = new array<Param>;
■void SymptomBase()
■{
|
■void ~SymptomBase()
■}
■void Init(SymptomManager manager, PlayerBase player, int uid)
■{
■■m_Manager = manager;
■■m_Player = player;
\blacksquare \blacksquare m\_UID = uid;
■■m_IsTemplate = false;
■■OnInit();
■}
■int GetMaxCount()
■■return m_MaxCount;
■int GetUID()
```

■■return m_UID;

■void OnOwnerKilled()

```
// ----- StateCB.c - START -----
class SymptomCB extends HumanCommandActionCallback
■//int m_SymptomUID;
■float m_ŘunTime;
■float m_StartingTime;
■PlayerBase m_Player;
■override void OnFinish(bool pCanceled)
■if( m_Player && m_Player.GetSymptomManager())
■■■m_Player.GetSymptomManager().OnAnimationFinished();
■void Init(float run_time, PlayerBase player)
■EnableCancelCondition(true);
■■m_RunTime = run_time * 1000;
■■m_StartingTime = GetGame().GetTime();
■■m_Player = player;
■■if( m_Player && m_Player.GetSymptomManager())
■■■m_Player.GetSymptomManager().OnAnimationStarted();
——}
■bool CancelCondition()
■if(m_RunTime > 0 && (GetGame().GetTime() > m_StartingTime + m_RunTime))
■■return true;
■■}
■■else
■ return false;
| | |
|
■override bool IsSymptomCallback()
■ireturn true;
};
// ----- StateCB.c - END -----
```

```
// ----- StateManager.c - START ------
enum AnimType
\blacksquareFULL_BODY = 1,
■ADDITIVE,
enum SymptomIDs
■SYMPTOM_COUGH = 1,
■SYMPTOM_VOMIT,
■SYMPTOM_BLINDNESS, ■SYMPTOM_BULLET_HIT,
■SYMPTOM_BLEEDING_SOURCE,
■SYMPTOM_BLOODLOSS,
■SYMPTOM_SNEEZE,
■SYMPTOM_FEVERBLUR,
■SYMPTOM_LAUGHTER,
■SYMPTOM_UNCONSCIOUS, ■SYMPTOM_FREEZE,
■SYMPTOM_HOT
■SYMPTOM_PAIN_LIGHT,
■SYMPTOM_PAIN_HEAVÝ
■SYMPTOM_HAND_SHIVER,
};
enum SymptomTypes
■PRIMARY,
■SECONDARY
enum EAnimPlayState
■OK,
■POSTPONED,
■FAILED,
const int DEBUG_PADDING_OFFSET = 2;
const int MAX_QUEUE_SIZE = 5;
class SymptomManager
■PlayerBase m_Player;
■ref map<int, ref SymptomBase> m_AvailableSymptoms;
■ref map<int, int> m_ActiveSymptomTypes;//for each type(symptom id), keep track of how many times it i
■ref array<ref SymptomBase> m_SymptomQueuePrimary;
■ref array<ref SymptomBase> m_SymptomQueueSecondary;
■ref map<int , SymptomBase > m_SymptomsUIDs;

    ■ref array<ref Param> m_SymptomQueueServerDbg;
    ■ref array<ref Param> m_SymptomQueueServerDbgPrimary;
    ■ref array<ref Param> m_SymptomQueueServerDbgSecondary;
    ■//ref array<string> m_SymptomQueueSecondaryServerDbg;
```

■ref Timer m Timer

```
// ----- staticDefinesDoc.c - START -----
#ifdef DOXYGEN
 %Defines
                                        | Short description
              DEVELOPER
                                           Internal developer version
                                         Retail build of the game
 RELEASE
                                             Preview build. Currently used only in console build
 PREVIEW BUILD
PLATFORM_CONSOLE && (PLATFORM_XBOX \|\| PLATFORM_PS4)

X1_TODO_TEMP_GUI

| Platform specific defines
 X1_TODO_TEMP_GUI
 BULDOZER
                                          | Game is launched in land editor mode (-buldozer)
                                        | Game runs as server
 SERVER
 NO_GUI, NO_GUI_INGAME
                                                 Game runs without gui - Server, client simula
 WORKBENCH
                                            Game runs from workbench
 COMPONENT_SYSTEM
                                                | Enfusion entity component system
                                              Game template implementation see [link](https://
 GAME_TEMPLATE
 ENF_DONE
                                          Looks like commented out wip or dead code
 DOXYGEN
                                          Doxygen documentation, never compiled
  _DAYZ_CREATURE_DEBUG_SHADOW
                                                        Game is built with network debug for
 BOT
                                      ? Script player debug bot?
PS3
                                      ? obsolete?
PC builds
                   | %Defines used
 release, releaseAsserts | DEVELOPER, (PLATFORM_WINDOWS \|\| PLATFORM_MACOSX \|\| ENF
retail client | RELEASE, (PLATFORM_WINDOWS \|\| PLATFORM_MACOSX \|\| ENF_LINUX),
 retail server, profile server | RELEASE, (PLATFORM_WINDOWS \|\| PLATFORM_MACOSX \|\| ENF_LIN
 Console builds | %Defines used
           | RELEASE, PLATFORM_CONSOLE, (PLATFORM_XBOX \|\| PLATFORM_PS4), PREVIE\
 preview
         | RELEASE, PLATFORM_CONSOLE, (PLATFORM_XBOX \\\ PLATFORM_PS4)
retail
          | DEVELOPER, PLATFORM_CONSOLE, (PLATFORM_XBOX \|\| PLATFORM_PS4)
release
enum StaticDefines
■DEVELOPER,
■RELEASE,
■PREVIEW BUILD.
■PLATFORM_WINDOWS,
■PLATFORM_MACOSX,
■ENF_LINUX,
■PLATFORM_CONSOLE,
■PLATFORM_XBOX,
■PLATFORM_PS4,
■X1_TODO_TEMP_GUI,
■BULDOZER,
■SERVER,
■NO_GUI,
■NO_GUI_INGAME,
■WORKBENCH,
■GAME_TEMPLATE,
■ENF_DONE,
■COMPONENT_SYSTEM,
■DOXYGEN,
```

■_DAYZ_CREATURE_DEBUG_SHADOW,

■ROT

```
...// ----- StaticGUIUtils.c - START -----
class StaticGUIUtils
■static const int IMAGESETGROUP_INVENTORY = 0;
■//! Checks for improperly formated, legacy image names and corrects them to default format.
■static string VerifylconImageString(int imageset_group = IMAGESETGROUP_INVENTORY, string icon_
■■if (icon_name == "")
■■ return "set:dayz_inventory image:missing";
| | |
■■if (!icon_name.Contains("image:"))
■■■switch (imageset_group)
■■■ case IMAGESETGROUP_INVENTORY:
■■■■ return "set:dayz_inventory image:" + icon_name;
■■return icon_name;
// ----- StaticGUIUtils.c - END -----
// ----- StaticObj_Roadblock_Wood_Small.c - START ------
class StaticObj_Roadblock_Wood_Small: House
■PointLightBase m_BlinkingLight;
■override void EEInit()
■ super.EEInit();
■■if (!GetGame().IsDedicatedServer())
■■■m_BlinkingLight = EntranceLight.Cast(ScriptedLightBase.CreateLightAtObjMemoryPoint(Roadblock_
--}
■override void EEDelete(EntityAl parent)
■■super.EEDelete(parent);
■■if (!GetGame().IsDedicatedServer())
```

■■if (m. Blinkingl ight)

```
....// ----- SteakKnife.c - START -----
class SteakKnife extends ToolBase
■override bool IsMeleeFinisher()
■ return true;
■override array<int> GetValidFinishers()
■ return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionBurnSewTarget);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionSkinning);
■■AddAction(ActionMineBush);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionBurnSewSelf);
■■AddAction(ActionDigWorms);
■■AddAction(ActionShaveTarget);
■■AddAction(ActionDisarmMine);
■■AddAction(ActionDisarmExplosive);
■■AddAction(ActionShave);
|
// ----- SteakKnife.c - END -----
// ----- Stomach.c - START -----
class StomachMdfr: ModifierBase
■override void Init()
■ TrackActivatedTime = false;
■■m_ID ■■■■■= eModifiers.MDF_STOMACH;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■■DisableDeactivateCheck();
■override bool ActivateCondition(PlayerBase player)
■ return true;
```

```
// ----- Stone.c - START ------
class Stone extends ItemBase
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionAttach);
■■AddAction(ActionDetach);
// -----
// ----- Stone.c - END ------
// -----
// ----- StoneKnife.c - START -----
class StoneKnife extends ToolBase
override bool IsMeleeFinisher()
■return true;
■override array<int> GetValidFinishers()
■ return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionSkinning);
■■AddAction(ActionMineBush);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionDigWorms);
// ----- StoneKnife.c - END -----
// -----
// ----- StoveLight.c - START -----
```

class Stovel ight extends PointLightBase

```
// ----- StuffedNotfr.c - START ------
class StuffedNotfr: NotifierBase
■void StuffedNotfr(NotifiersManager manager)
■■m_Active = true;
■override int GetNotifierType()
■ return eNotifiers.NTF_STUFFED;
■override void DisplayBadge()
■float volume = m_Player.m_PlayerStomach.GetStomachVolume();
■■eBadgeLevel IvI = DetermineBadgeLevel(volume, PlayerConstants.BT_STOMACH_VOLUME_LVL3, F
■■DisplayElementBadge dis_elm = DisplayÈlementBadge.Cast(GetVirtualHud().GetElement(eDisplayEle
■■if( dis_elm )
■■dis_elm.SetLevel(lvl);
==}
■}
■override void HideBadge()
■■DisplayElementBadge dis_elm = DisplayElementBadge.Cast(GetVirtualHud().GetElement(eDisplayEle
■■if( dis_elm )
■■■dis_elm.SetLevel(eBadgeLevel.NONE);
——}
■}
};
// ----- StuffedNotfr.c - END -----
// ----- StuffedStomach.c - START ------
class StuffedStomachMdfr: ModifierBase
■protected const int■ ■STUFFED_TRESHOLD = PlayerConstants.BT_STOMACH_VOLUME_LVL3;
■override void Init()
■■m_TrackActivatedTime = false;
■■m_ID ■■■■■= eModifiers.MDF_STUFFED;
■■m_TickIntervalInactive ■= 1;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
```

override void OnTick(PlayerBase player_float_deltaT)

```
class StunBaton: ItemBase
■protected int m_MeleeMode;
■protected int m_MeleeHeavyMode;
protected int m_MeleeSprintMode;
■void StunBaton()
■ MeleeMode = 0;
■■m_MeleeHeavyMode = 1;
■■m_MeleeSprintMode = 2;
■override void OnWorkStart()
■■//! melee modes in cfg (switched on state)
■■m MeleeMode = 3;
■■m_MeleeHeavyMode = 4;
■■m_MeleeSprintMode = 5;
■override void OnWorkStop()
■■//! melee modes in cfg (switched off state)
\blacksquare \blacksquare m\_MeleeMode = 0;
■■m_MeleeHeavyMode = 1;
■■m_MeleeSprintMode = 2;
■override int GetMeleeMode()
■ return m_MeleeMode;
■override int GetMeleeHeavyMode()
■■return m_MeleeHeavyMode;
■override int GetMeleeSprintMode()
■■return m_MeleeSprintMode;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionTurnOnWhileInHands);
■■AddAction(ActionTurnOffWhileInHands);
■}
// ----- StunBaton.c - END -----
```

```
// ----- SuppressorBase.c - START ------
class SuppresorBase extends ItemBase
// ----- SuppressorBase.c - END ------//
// ----- Surface.c - START -----
// -----
class Surface
■static float GetParamFloat(string surface_name, string param_name)
■ return GetGame().ConfigGetFloat("CfgSurfaces" + surface_name + "" + param_name);
■static bool AllowedWaterSurface(float pHeight, string pSurface, array<string> pAllowedSurfaceList)
■■if (pSurface)
■■pSurface.Replace("_ext", "");
■■■pSurface.Replace("_int", "");
——}
■■bool isSeaCheck = false;
■■foreach (string allowedSurface : pAllowedSurfaceList)
■■■if (pSurface == "" && allowedSurface == UAWaterType.SEA)
■■■isSeaCheck = pHeight <= g_Game.SurfaceGetSeaLevel() + 0.001;
■■■if (isSeaCheck || allowedSurface == pSurface)
■■■return true;
——}
■■return false;
■}
// ----- Surface.c - END ------
// -----
// ----- SurgicalGloves_ColorBase.c - START ------//
```

class SurgicalGloves_ColorBase extends Clothing {};
class SurgicalGloves_Blue extends SurgicalGloves_ColorBase {}:

```
// ----- SurgicalMask.c - START -----
class SurgicalMask extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- SurgicalMask.c - END ------
// -----
// ----- SurrenderDummyItem.c - START ------
class SurrenderDummyItem extends DummyItem
■protected PlayerBase m_player;
■void ~SurrenderDummyItem()
■Market | m_player = PlayerBase.Cast(GetHierarchyRootPlayer());
■■if (m_player && m_player.m_EmoteManager)
■■■PlayerBase.Cast(m_player).m_EmoteManager.PlaySurrenderInOut(false); //has to be triggered sepa
■■■Print("Error, no player owns SurrenderDummyItem");*/
■override void OnItemLocationChanged(EntityAl old_owner, EntityAl new_owner)
■■super.OnItemLocationChanged(old_owner,new_owner);
■■//Player somehow got a hold of the item (can be done by quickly pressing tab after F5), item should no
■If (old owner)
■■Delete();
-/*
■■//enters player's inventory
■If (new_owner)
■■■//m_player = PlayerBase.Cast(new_owner);
■■■//PlayerBase.Cast(new_owner).m_EmoteManager.PlaySurrenderInOut(true);
■■// may not work on item destroy?
■■else
■■■Delete();
Image: PlayerBase.Cast(old_owner).m_EmoteManager.PlaySurrenderInOut(false);
■■*/
```

```
// ----- SurvivorBase.c - START ------
class SurvivorBase extends PlayerBaseClient
■override int GetHideIconMask()
■■return EInventoryIconVisibility.HIDE_VICINITY;
// ----- SurvivorBase.c - END -----
// -----
// ----- SVD.c - START -----
class SVD_Base : RifleBoltLock_Base
override RecoilBase SpawnRecoilObject()
■ return new SvdRecoil(this);
■override bool CanEnterIronsights()
■ItemOptics optic = GetAttachedOptics();
■■if (optic && PSO1Optic.Cast(optic) || PSO11Optic.Cast(optic) || KashtanOptic.Cast(optic) || KazuarOpti
■■return true;
■■return super.CanEnterIronsights();
■}
■//Debug menu Spawn Ground Special ■override void OnDebugSpawn()
GameInventory inventory = GetInventory();
■■inventory.CreateInInventory( "PSO1Optic" );
■■inventory.CreateInInventory( "AK_Suppressor" );
■■inventory.CreateInInventory( "Battery9V" );
■■SpawnAttachedMagazine("Mag_SVD_10Rnd");
};
// ----- SVD.c - END -----
// -----
```

```
// ----- SvdRecoil.c - START -----
class SvdRecoil: RecoilBase
■override void Init()
■{
■■vector point_1;
■■vector point_2;
■■vector point_3;
vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncMan
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 1;
■■m_MouseOffsetRangeMin = 45;//in degrees min
■■m_MouseOffsetRangeMax = 110;//in degrees max
■■m_MouseOffsetDistance = 1.8;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.5;//[0..1] a time it takes to move the mouse the required distance rela
■■m_CamOffsetDistance = 0.015;
■■m_CamOffsetRelativeTime = 1;
}
// -----
// ----- SvdRecoil.c - END ------
// -----
// ----- SwarmingFlies.c - START -----
class EffSwarmingFlies : EffectParticle
■void EffSwarmingFlies()
■■SetParticleID(ParticleList.ENV_SWARMING_FLIES);
// ----- SwarmingFlies.c - END -----
// -----
```

```
// ----- Sweater_ColorBase.c - START ------
class Sweater_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class Sweater_Gray extends Sweater_ColorBase {};
class Sweater_Blue extends Sweater_ColorBase {};
class Sweater_Green extends Sweater_ColorBase {};
class Sweater_Red extends Sweater_ColorBase {};
// ----- Sweater_ColorBase.c - END -----
// ----- Switchable_Base.c - START -------
class Switchable_Base extends ItemBase
■override void OnWasAttached( EntityAl parent, int slot_id)
■■super.OnWasAttached( parent, slot_id );
■■ItemBase parent_item;
■■if ( Class.CastTo(parent_item,parent) )
■■■parent_item.AddLightSourceItem(this);
■}
■override void OnWasDetached( EntityAl parent, int slot_id )
■■super.OnWasDetached( parent, slot_id );
■■ItemBase parent_item;
■■if ( Class.CastTo(parent_item,parent) )
parent_item.RemoveLightSourceItem();
---
■}
■override void EEItemLocationChanged (notnull InventoryLocation oldLoc, notnull InventoryLocation newl
■■super.EEItemLocationChanged(oldLoc, newLoc);
■■if (GetLight())
■■GetLight().UpdateMode();
```

```
// ----- Sword.c - START ------
class Sword extends ToolBase
■void Sword()
■override bool IsMeleeFinisher()
■■return true;
■}
■override array<int> GetValidFinishers()
■■return {EMeleeHitType.FINISHER_LIVERSTAB,EMeleeHitType.FINISHER_NECKSTAB};
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionMineBush);
// ----- Sword.c - END -----
// -----
// ----- SymptomEvents.c - START ------
class SymptomSoundEventBase extends PlayerSoundEventBase
■void SymptomSoundEventBase()
■■m_Type = EPlayerSoundEventType.GENERAL;
■■m_HasPriorityOverTypes = -1;
■override bool HasPriorityOverCurrent(PlayerBase player, EPlayerSoundEventID other_state_id, EPlayer
■ return true;
■}
class CoughSoundEvent extends SymptomSoundEventBase
■void CoughSoundEvent()
■ m_ID = EPlayerSoundEventID.SYMPTOM_COUGH;
■ m_SoundVoiceAnimEventClassID = 8;
```

```
// ----- SyncData.c - START ------
class SyncData
■int m_SyncInt;
■ref SyncPlayerList m_ServerPlayerList;
■ref SyncEntityKillInfo m_EntityKill;
// -----
// ----- SyncData.c - END ------//
// ----- SyncedValue.c - START ------//
class SyncedValue
■string m_Name;
■float m_Value; float m_ValueNorm;
■bool m_State;
■void SyncedValue( string name, float value, bool state, float val_norm )
■■m_Name = name;
■■m_Value = value;
■■m_State = state;
■■m_ValueNorm = val_norm;
■}
■string GetName()
■■return m_Name;
■float GetValue()
■■return m_Value;
■float GetValueNorm()
■■return m_ValueNorm;
■}
■bool GetState()
■■return m_State;
■}
class SyncedValueLevel
■string m_Name;
```

■float m Value:

```
class SyncEntityKillInfo
■EntityAl■m_EntityVictim;
■EntityAl■m_EntityKiller;
■EntityAl■m_EntitySource;
■bool■■m_IsHeadShot;
// ----- SyncEntityKill.c - END ------
// ----- SyncEvents.c - START ------
class SyncEvents
■static void RegisterEvents()
■DayZGame dz_game = DayZGame.Cast( GetGame() );
■■dz_game.Event_OnRPC.Insert( Event_OnRPC );
Print("SyncEvents -> RegisterEvents");
■static void Event_OnRPC(PlayerIdentity sender, Object target, int rpc_type, ParamsReadContext ctx)
■■if ( rpc_type == ERPCs.RPC_SYNC_EVENT && GetGame() && GetGame().IsMultiplayer() && GetGar
■■■Param2<ESyncEvent, ref SyncData> event_data = new Param2<ESyncEvent, ref SyncData>( -1, nu
■■■if (ctx.Read(event_data))
Description
OnSyncEvent( event_data.param1, event_data.param2, target );
| ||
■static void OnSyncEvent( ESyncEvent event_type, SyncData data, Object target )
■■switch ( event_type )
■■■case ESyncEvent.PlayerList:
■■■ClientData.SyncEvent_OnRecievedPlayerList( data.m_ServerPlayerList );
■■■■break:
■■■case ESyncEvent.EntityKill:
  ClientData.SyncEvent_OnEntityKilled( data.m_EntityKill );
 I■■■break;
■■ case ESyncEvent.PlayerIgnateFireplayce:
```

```
// ----- SyncHitInfo.c - START ------
//! extendable type to allow for smarter hit data syncing
class SyncHitInfo extends Managed
■int m_AnimType;
■float m_HitDir;
■float m_HealthDamage;
■bool m_Fullbody;
■//ref TotalDamageResult m_DamageResult;
■bool m_HasSource;
};
// -----
// ----- SyncHitInfo.c - END ------
// -----
// ----- SyncPlayer.c - START ------
// -----
class SyncPlayer
■string m_UID;
■string m_PlayerName;
// -----
// ----- SyncPlayer.c - END ------//
// -----
/// ----- SyncPlayerList.c - START ------
class SyncPlayerList
iref array<ref SyncPlayer> m_PlayerList;
■void CreatePlayerList()
■■if (GetGame().IsServer())
■■■m_PlayerList = new array<ref SyncPlayer>;
■■■array<Man> players = new array<Man>;
■■GetGame().GetWorld().GetPlayerList(players);
THE for (int i = 0; i < players.Count(); ++i)
■■■Man player = players[i];
■■■PlayerIdentity p_identity = player.GetIdentity();
```

■■■if (n. identity)

```
class Syringe extends BloodContainerBase
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionCollectSampleTarget);
■■AddAction(ActionCollectSampleSelf);
// ------
// ----- Syringe.c - END -------------------------//
// ----- Tabber.c - START -------//
class Tabber : ScriptedWidgetEventHandler
■Widget ButtonsPanel;
■Widget ContentPanel;
■reference int SelectedTab:
■void OnWidgetScriptInit(Widget w)
■w.SetHandler(this);
■■SelectTab(SelectedTab);
I// -----
■override bool OnClick(Widget w, int x, int y, int button)
■if (w && w.GetParent() == ButtonsPanel)
■■■SelectedTab = 0;
■■■Widget iw = ButtonsPanel.GetChildren();
■■while(iw)
\blacksquare if (iw == w) break;
■■■■SelectedTab++;
\blacksquare iw = iw.GetSibling();
■■■SelectTab(SelectedTab);
■■return false;
```

Inrotected void SelectTab(int index)

```
// ----- TabberUI.c - START -----
class TabberUI extends ScriptedWidgetEventHandler
■protected bool■■■■■m_FirstInit = true;
■protected Widget■■■m_Root;
■protected Widget■■■m_TabControlsRoot;
■protected int ■■■■■m_TabsCount;
■protected ref map<int, Widget>■m_TabControls;
■protected ref map<int, Widget>■m_Tabs;
■protected int■■■■m_SelectedIndex;
■ protected float ■■■■ Resolution Multiplier:
protected bool■■■■■m_CanSwitch;
■ref ScriptInvoker■■■■m_OnTabSwitch = new ScriptInvoker();
■ref ScriptInvoker■■■■m_OnAttemptTabSwitch = new ScriptInvoker();
■ref Timer■■■■■■ InitTimer;
■protected void OnInputPresetChanged()
■■#ifdef PLATFORM_CONSOLE
■■UpdateControlsElements();
#endif
■}
Improtected void OnInputDeviceChanged(EInputDeviceType pInputDeviceType)
■■switch (pInputDeviceType)
■ case EInputDeviceType.CONTROLLER:
■■■UpdateControlsElements();
■■■m_TabControlsRoot.FindAnyWidget("ConsoleControls").Show(true);
■■break;
■■default:
■■■if (GetGame().GetInput().IsEnabledMouseAndKeyboardEvenOnServer())
■■■m_TabControlsRoot.FindAnyWidget("ConsoleControls").Show(false);
---
■■break:
| | |
■}
■void Init()
•{
■■int x, y;
■■GetScreenSize(x, y);
■■m_ResolutionMultiplier■= y / 1080;
■■m_CanSwitch = true;
\blacksquarem TabsCount\blacksquare= 0:
■■Widget tab_controls■= m_Root.FindAnyWidget("Tab_Control_Container");
■■if (tab_controls)
■■■Widget tab_child■= tab_controls.GetChildren();
■■■while (tab_child)
```

```
------ TacticalBaconCan.c - START ------
class TacticalBaconCan: Edible_Base
■override void Open()
■■ReplaceEdibleWithNew("TacticalBaconCan_Opened");
■override bool IsOpen()
■ return false;
// ----- TacticalBaconCan.c - END ------//
// ----- TacticalBaconCan_Opened.c - START ------
class TacticalBaconCan_Opened: Edible_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeedCan);
■■AddAction(ActionEatCan);
// ----- TacticalBaconCan_Opened.c - END -----
// -----
// ----- TacticalGloves_ColorBase.c - START ------//
class TacticalGloves_ColorBase extends Clothing {};
class TacticalGloves_Black extends TacticalGloves_ColorBase {}; class TacticalGloves_Beige extends TacticalGloves_ColorBase {};
class TacticalGloves_Green extends TacticalGloves_ColorBase {};
// ----- TacticalGloves_ColorBase.c - END ------
```

```
// ----- TacticalGoggles.c - START -----
class TacticalGoggles extends Clothing
■override int GetGlassesEffectID()
■■return PPERequesterBank.REQ_GLASSESTACTICAL;
■override bool CanPutAsAttachment(EntityAl parent)
■ if (!super.CanPutAsAttachment(parent))
■■return false;
■■Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if (mask && mask.ConfigGetBool("noEyewear"))
■ return false;
==}
■■return true;
■}
};
// ----- TacticalGoggles.c - END ------
// ----- TacticalShirt_ColorBase.c - START ------
class TacticalShirt_ColorBase extends Clothing
■override void SetActions()
■ super.SetActions();
■■AddAction(ActionWringClothes);
|
class TacticalShirt_Grey extends TacticalShirt_ColorBase {};
class TacticalShirt_Black extends TacticalShirt_ColorBase {};
class TacticalShirt_Olive extends TacticalShirt_ColorBase {};
class TacticalShirt_Tan extends TacticalShirt_ColorBase {};
...
// ----- TacticalShirt_ColorBase.c - END ------
// ----- TaloonBag_ColorBase.c - START ------
```

class TaloonBag, ColorBase extends Clothing ().

```
// ----- TankerHelmet.c - START ------
class TankerHelmet extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
...// ----- TankerHelmet.c - END ------
// ----- TelescopicBaton.c - START ------
class TelescopicBaton: ItemBase
protected int m_MeleeMode;
■protected int m_MeleeHeavyMode;
■protected int m_MeleeSprintMode;
■protected ref OpenableBehaviour m_Openable;
■void TelescopicBaton()
■■//!set default melee modes on init
■■m_MeleeMode = 0;
■■m_MeleeHeavyMode = 1;
■■m_MeleeSprintMode = 2;
■■m_Openable = new OpenableBehaviour(false);
■■RegisterNetSyncVariableBool("m_Openable.m_IsOpened");
■■UpdateVisualState();
■}
■override void Open()
■m_Openable.Open();
■■SetSynchDirty();
■■//! sets different set of melee modes for opened state
■■m MeleeMode = 3:
■■m_MeleeHeavyMode = 4;
■■m_MeleeSprintMode = 5;
■■UpdateVisualState();
■override void Close()
```

```
// ----- TelnyashkaShirt.c - START -----
class TelnyashkaShirt extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- TelnyashkaShirt.c - END ------
// ----- TendencyBacteria.c - START -----
class TendencyBacteria extends DisplayElementTendency
■void TendencyBacteria(PlayerBase player)
■m_Type = eDisplayElements.DELM_TDCY_BACTERIA;
■■m_Key = NTFKEY_BACTERIA;
// ----- TendencyBacteria.c - END -----
// -----
//
// ----- TendencyBlood.c - START ------
class TendencyBlood extends DisplayElementTendency
■void TendencyBlood(PlayerBase player)
■m_Type■=■eDisplayElements.DELM_TDCY_BLOOD;
■■m_Key = NTFKEY_BLEEDISH;
// -----
// ----- TendencyBlood.c - END ------
```

```
----- TendencyHealth.c - START -----
class TendencyHealth extends DisplayElementTendency
■void TendencyHealth(PlayerBase player)
■m_Type■=■eDisplayElements.DELM_TDCY_HEALTH;
■■m_Key = NTFKEY_SICK;
// ----- TendencyHealth.c - END ------
// ----- TendencyHunger.c - START -----
class TendencyHunger extends DisplayElementTendency
void TendencyHunger(PlayerBase player)
■m_Type■=■eDisplayElements.DELM_TDCY_ENERGY;
■■m_Key = NTFKEY_HUNGRY;
// ----- TendencyHunger.c - END -----
// ----- TendencyTemperature.c - START ------//
class TendencyTemperature extends DisplayElementTendency
■void TendencyTemperature(PlayerBase player)
■■TENDENCY_MASK = 7;// 3 bits
■■SERIOUSNESS_BIT_MASK = 7;// 3 bits
■■SERIOUSNESS_BIT_OFFSET = 3;//3 bit offset
■■NUM_OF_BITS = 6;■■
■■m_Type■= eDisplayElements.DELM_TDCY_TEMPERATURE;
■■m_Key = NTFKEY_FEVERISH;
override int TranslateLevelToStatus(int level)
■if( level == DSLevelsTemp.WARNING_PLUS ) return 2;
```

■■if level -- DSI evelsTemp CRITICAL PLUS \ return 3:

```
// ----- TendencyThirst.c - START -----
class TendencyThirst extends DisplayElementTendency
void TendencyThirst(PlayerBase player)
■m_Type■=■eDisplayElements.DELM_TDCY_WATER;
■■m Key = NTFKEY THIRSTY:
...
// ----- TendencyThirst.c - END ------
// -----
// -----
// ----- TentBase.c - START -----
// -----
class TentBase extends ItemBase
\blacksquareconst int OPENING_0 = 1;
\blacksquareconst int OPENING 1 = 2;
\blacksquareconst int OPENING_2 = 4;
\blacksquareconst int OPENING_3 = 8;
\blacksquareconst int OPENING_4 = 16;
■const int OPENING_5 = 32;
\blacksquareconst int OPENING_6 = 64;
■const int OPENING_7 = 128;
\blacksquareconst int OPENING_8 = 256;
■const int OPENING_9 = 512;
\blacksquareconst int OPENING_10 = 1024;
■const int OPENING_11 = 2048;
\blacksquareconst int OPENING_12 = 4096;
\blacksquareconst int OPENING_13 = 8192;
\blacksquareconst int OPENING_14 = 16384;
\blacksquareconst int OPENING_15 = 32768;
■static const int PACKED ■= 0;
■static const int PITCHED ■= 1;
■const float MAX_PLACEMENT_HEIGHT_DIFF = 1.5;
■//bool m_DamageSystemStarted = false;
■protected int m_State;
■protected int m_StateLocal = -1;
■protected bool m_lsEntrance;
■protected bool m_lsWindow;
■protected bool m_IsToggle;
protected bool m_lsBeingPacked = false;
■protected int m_OpeningMask = 0;
■protected int m_OpeningMaskLocal = -1;
■protected ref map< ref ToggleAnimations, bool> m_ToggleAnimations;
■protected ref array<string> m_ShowAnimationsWhenPitched;
■protected ref array<string> m_ShowAnimationsWhenPacked;
■protected Object ■ m_ClutterCutter;
```

ref protected EffectSound ■m. DeployLoopSound:

```
// ----- Test.c - START ------
class Test extends RecipeBase
■override void Init()
[
■■m_Name = "Test 3 ingredients";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
■■m_Specialty = 0;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = 3;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■m_MinDamageIngredient[2] = 1;//-1 = disable check
■■m_MaxDamageIngredient[2] = -1;//-1 = disable check
■■m_MinQuantityIngredient[2] = -1;//-1 = disable check
■ MaxQuantityIngredient[2] = -1://-1 = disable check
*/
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"BloodTestKit");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■■m_IngredientSetHealth[0] = -1; // -1 = do nothing
\blacksquarem_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = true;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"BloodSyringe");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m_IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 3
■■InsertIngredient(2,"SalineBagIV");//you can insert multiple ingredients this way
■■m_IngredientAddHealth[2] = 0;// 0 = do nothing
■■m_IngredientSetHealth[2] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[2] = 0;// 0 = do nothing
```

■■m_IngredientDestroy[2] = false;// false = do nothing

```
----- TestDisease.c - START ------
class TestDiseaseMdfr: ModifierBase
■float m_Interval;
■ref Param1<float> m_SomeValue;
■override void Init()
■m_TrackActivatedTime■■= false;
■■m_ID ■■■■■■= 9999;
■■m_TickIntervalInactive ■ DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= 5;
■■m_SomeValue■■= new Param1<float>(0);
■■MakeParamObjectPersistent(m_SomeValue);
■■DisableDeactivateCheck();
■■DisableActivateCheck();
■}
■override bool ActivateCondition(PlayerBase player)
■ return false;
■override void OnActivate(PlayerBase player)
☐ //player.GetBleedingManagerServer().AttemptAddBleedingSource(Math.RandomInt(0, 100));
■override void OnReconnect(PlayerBase player)
■■//OnActivate(player);
■■//player.GetSymptomManager().QueueUpSecondaryState( SymptomIDs.SYMPTOM_BLINDNESS );
■override void OnDeactivate(PlayerBase player)
■override bool DeactivateCondition(PlayerBase player)
■■return false;
■override void OnTick(PlayerBase player, float deltaT)
■ player.GetSymptomManager().QueueUpPrimarySymptom(SymptomIDs.SYMPTOM_LAUGHTER);
// ----- TestDisease.c - END -----
```

```
----- TestFramework.c - START ------
enum TFR
■FAIL = -1.
■SUCCESS.
■PENDING,
class TFResult // Pretty much just to be able to keep a reference...
■TFR Result;
■void TFResult(TFR result)
■■Result = result;
■TFResult And(TFResult other)
■■if (Result == TFR.PENDING || other.Result == TFR.PENDING)
■■■ErrorEx("Trying to And while one of the results are PENDING.");
■■if (Result == TFR.SUCCESS && other.Result == TFR.SUCCESS)
■■■Result = TFR.SUCCESS:
■else
■■■Result = TFR.FAIL;
■ return this;
■}
■TFResult Or(TFResult other)
■■if (Result == TFR.PENDING || other.Result == TFR.PENDING)
ErrorEx("Trying to Or while one of the results are PENDING.");
■■if (Result == TFR.SUCCESS || other.Result == TFR.SUCCESS)
■■■Result = TFR.SUCCESS;
■■else
■■■Result = TFR.FAIL;
■■return this;
typedef array<ref TFResult> TFResultArr;
class TFCaller
■private Class ■■■m_Instance;
■private string ■■■m_Test;
■private ref TFResult ■m_Result;
■void TFCaller(Class instance, string test, TFResult result)
■■m_Instance ■= instance;
■■m_Test ■■= test;
■■m_Result ■= result;
```

■TFRegult Run/float dt)

```
// ----- Testing.c - START -----
class TestingMdfr: ModifierBase
■float stuff;
■bool swch:
■override void Init()
■ TrackActivatedTime ■ true;
■■m_ID ■■■■= eModifiers.MDF_TESTING;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■override void OnActivate(PlayerBase player)
■■//m_Timer1.Run(1, this, "BadaBang");
■■player.GetSymptomManager().QueueUpPrimarySymptom( SymptomIDs.SYMPTOM_COUGH );
■}
■override void OnReconnect(PlayerBase player)
■override bool ActivateCondition(PlayerBase player)
■return swch;
\blacksquareif(stuff < 40)
■■{
■■return true;
| | |
■■else return false;
■override bool DeactivateCondition(PlayerBase player)
•{
■■if (GetAttachedTime() > 100) {swch = true; return true;}
■■else return false;
\blacksquareif(stuff > 40)
■■{
■■return true;
■else return false;
■override void OnTick(PlayerBase player, float deltaT)
■ stuff += deltaT;
```

```
// ----- TetracyclineAntibiotics.c - START ------
class TetracyclineAntibiotics : Edible_Base
■override void OnConsume(float amount, PlayerBase consumer)
■■if (consumer.GetModifiersManager().IsModifierActive(eModifiers.MDF_ANTIBIOTICS)) //effectively res
■■consumer.GetModifiersManager().DeactivateModifier(eModifiers.MDF_ANTIBIOTICS);
Econsumer.GetModifiersManager().ActivateModifier(eModifiers.MDF_ANTIBIOTICS);
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceConsumeSingle);
■■AddAction(ActionConsumeSingle);
// ----- TetracyclineAntibiotics.c - END -----
// ----- Thermometer.c - START ------
class Thermometer extends ItemBase
■float GetTemperatureValue(PlayerBase player)
■■string temp;
■float value:
■■if( player.GetModifiersManager() && player.GetModifiersManager().IsModifierActive(eModifiers.MDF_F
■■■value = Math.RandomFloatInclusive(PlayerConstants.HIGH_TEMPERATURE_L, PlayerConstants.H
——}
■■else
■■■value = Math.RandomFloatInclusive(PlayerConstants.NORMAL_TEMPERATURE_L, PlayerConstan
■■value = Math.Round(value * 10) / 10;
■■return value;
■■//temp = value.ToString();
■■//return temp + "C";
■}
■override void SetActions()
■■super.SetActions();
```

■■AddAction(ActionMeasureTemperatureTarget):

```
// ----- ThickFramesGlasses.c - START ------
class ThickFramesGlasses extends Clothing
Eoverride bool CanPutAsAttachment(EntityAl parent)
■■if (!super.CanPutAsAttachment(parent))
■■ return false:
■■Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if (mask && mask.ConfigGetBool("noEyewear"))
■ return false;
|
■ return true;
};
// ----- ThickFramesGlasses.c - END ------
// ----- ThinFramesGlasses.c - START ------
class ThinFramesGlasses extends Clothing
Eoverride bool CanPutAsAttachment(EntityAl parent)
■if (!super.CanPutAsAttachment(parent))
■■ return false;
■■Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if (mask && mask.ConfigGetBool("noEyewear"))
■■return false:
|
■ return true;
|
// ----- ThinFramesGlasses.c - END -----
// -----
// ----- Thirst.c - START -----
// -----
class ThirstMdfr: ModifierBase
```

```
// ----- ThirstNotfr.c - START -----
class ThirstNotfr: NotifierBase
■private const float ■HYDRATED_TRESHOLD ■■■= 3500;
■private const float ■THIRSTY_TRESHOLD ■■■= 2500;
■private const float ■VERY_THIRSTY_TRESHOLD ■■= 1500;
■private const float ■FATALLY_THIRSTY_TRESHOLD ■= 0;
■ private const float ■ DEC_TRESHOLD_LOW ■ ■ ■ = 0;
■ private const float ■ DEC_TRESHOLD_MED ■ ■ = -0.2;
■ private const float ■ DEC_TRESHOLD_HIGH■ = -0.85;
■private const float ■INC_TRESHOLD_LOW ■■■= 0;
■ private const float ■INC_TRESHOLD_MED ■ 0.2; ■ private const float ■INC_TRESHOLD_HIGH■ 0.85;
■void ThirstNotfr(NotifiersManager manager)
■}
■override int GetNotifierType()
■■return eNotifiers.NTF_THIRSTY;
■override void DisplayTendency(float delta)
■■//PrintString(delta.ToString());
 ■■int tendency = CalculateTendency(delta, INC_TRESHOLD_LOW, INC_TRESHOLD_MED, INC_TRES
■■//GetVirtualHud().SetStatus(eDisplayElements.DELM_TDCY_WATER,tendency);
■■//DSLevels level = DetermineLevel( GetObservedValue(), PlayerConstants.THRESHOLD_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_WATER_
■■EStatLevels water_level = m_Player.GetStatLevelWater();
■■DisplayElementTendency dis_elm = DisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(GetVirtualHud().GetElement(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElementTendency.Cast(eDisplayElement
■■if( dis_elm )
----
■■■dis_elm.SetTendency(tendency);
■■■dis_elm.SetSeriousnessLevel(water_level);
 |
■override void DisplayBadge()
float water = m_Player.GetStatWater().Get();
■■if (water >= HYDRATED_TRESHOLD)
 ■■■//GetVirtualHud().SetStatus(eDisplayElements.DELM_NTFR_THIRST,DELM_LVL_1);
■■else if (water <= THIRSTY_TRESHOLD)
■■■//GetVirtualHud().SetStatus(eDisplayElements.DELM_NTFR_THIRST,DELM_LVL_2);
 ■■else if (water <= VERY_THIRSTY_TRESHOLD)
  ■■■//GetVirtualHud().SetStatus(eDisplayElements.DELM_NTFR_THIRST,DELM_LVL_3);
```

■■else if (water <= FATALLY_THIRSTY_TRESHOLD)

```
// ----- TimeAccel.c - START ------
#ifdef DIAG DEVELOPER
typedef Param3<bool, float, int> TimeAccelParam;//enabled, timeAccel,category mask
enum ETimeAccelCategories
■//DO NOT FORGET TO INCLUDE IN THE MAPPING 'Init()' FUNCTION
■UNDERGROUND_ENTRANCE ■= 0x00000001
■UNDERGROUND_RESERVOIR ■= 0x00000002,
■ENERGY_CONSUMPTION ■■= 0x00000004,
■ENERGY_RECHARGE ■■= 0x00000008,
■FOOD_DECAY ■■■■= 0x00000010,
\blacksquare//SYSTEM5 = 0x00000020,
\blacksquare//SYSTEM6 = 0x00000040.
\blacksquare//SYSTEM6 = 0x00000080.
class FeatureTimeAccel
■static ref TimeAccelParam ■■m_CurrentTimeAccel;// ■= new TimeAccelParam(false, 0, 0);
■static ref map<int,int> ■■m_Mapping ■■■= new map<int,int>();
■static ref array<int> ■■■m_IDs■■■= new array<int>();
■static bool ■■■■■m_Initializeded ■= Init();
■static bool Init()
■■Bind(DiagMenuIDs.FEATURE_TIME_ACCEL_UG_ENTRANCES, ■■ETimeAccelCategories.UNDERGENTRANCES, ■■ETimeAccelCategories.UNDERGENTRANCES, ■■ETimeAccelCategories.UNDERGENTRANCES
■■Bind(DiagMenulDs.FEATURE_TIME_ACCEL_ENERGY_CONSUME, ■ETimeAccelCategories.ENER
■■Bind(DiagMenulDs.FEATURE_TIME_ACCEL_ENERGY_RECHARGE, ■ETimeAccelCategories.ENER ■ Bind(DiagMenulDs.FEATURE_TIME_ACCEL_FOOD_DECAY, ■■ETimeAccelCategories.FOOD_DECAY
■ return true;
I//-----
■static void Bind(DiagMenulDs id, ETimeAccelCategories catBit)
■■m_Mapping.Insert(id, catBit);
■■m_IDs.Insert(id);
•}
■//-----
■static int GetCategoryByDiagID(DiagMenuIDs id)
■■return m_Mapping.Get(id);
•}
■static int GetDiagIDByCategory(ETimeAccelCategories category)
\blacksquarefor (int i = 0; i < m_Mapping.Count();i++)
■■■if (m_Mapping.GetElement(i) == category)
■■■return m_Mapping.GetKey(i);
```

```
// ----- TitleScreenMenu.c - START -------
/*! Xbox menu */
class TitleScreenMenu extends UIScriptedMenu
■RichTextWidget m_TextPress;
■void TitleScreenMenu()
■ g_Game.SetGameState(DayZGameState.MAIN_MENU);
■■g_Game.SetLoadState(DayZLoadState.MAIN_MENU_START);
■}
■void ~TitleScreenMenu()
|
■override Widget Init()
■■layoutRoot = GetGame().GetWorkspace().CreateWidgets("gui/layouts/xbox/day_z_title_screen.layout"
■■MissionMainMenu mission = MissionMainMenu.Cast(g_Game.GetMission());
■■m_TextPress = RichTextWidget.Cast(layoutRoot.FindAnyWidget("InputPromptText"));
■■if (m_TextPress)
■■{
■■■string gamertag;
■■string text = Widget.TranslateString("#console_start_game");
■■GetGame().GetPlayerName(gamertag);
■■#ifdef PLATFORM_XBOX
■■■BiosUserManager user_manager = GetGame().GetUserManager();
■■■if (user_manager && user_manager.GetSelectedUser())
■■■■■m_TextPress.SetText(string.Format(text, "<image set=\"xbox_buttons\" name=\"A\" />"));
■■■■■m_TextPress.SetText(string.Format(text, "<image set=\"xbox_buttons\" name=\"A\" />"));
■■#endif
■■#ifdef PLATFORM_PS4
■■■string confirm = "cross";
■■■if (GetGame().GetInput().GetEnterButton() == GamepadButton.A)
IIIIIconfirm = "cross";
 }
■■■else
 I■■■ confirm = "circle";
■■■■m_TextPress.SetText(string.Format(text, "<image set=\"playstation_buttons\" name=\"" + confirm +
■■#endif
■■return layoutRoot;
■}
■override void OnShow()
■■if (g_Game.GetGameState() != DayZGameState.CONNECTING)
 ■■#ifdef PLATFORM_CONSOLE
```

■■■g_Game.GamepadCheck();

#endif

```
// ----- TLRLight.c - START ------
class TLRLight extends Switchable_Base
■PistollightLight ■m_Light;
■static int■■■REFLECTOR_ID = 1;
■static int■■■GLASS_ID = 0;
■static string ■■LIGHT_OFF_GLASS = "dz\\gear\\tools\\data\\flashlight_glass.rvmat";
■static string ■■LIGHT_OFF_REFLECTOR = "dz\\weapons\\attachments\\data\\TLS3.rvmat";
■static string ■■LIGHT_ON_GLASS = "dz\\gear\\tools\\data\\flashlight_glass_on.rvmat";
■static string ■■LIGHT_ON_REFLECTOR = "dz\\weapons\\attachments\\data\\TLS3_on.rvmat";
■override ScriptedLightBase GetLight()
■ return m_Light;
■override bool CanPutAsAttachment( EntityAl parent )
■■if(!super.CanPutAsAttachment(parent)) {return false;}
■■if (!parent.lsKindOf("PlateCarrierHolster") && !parent.lsKindOf("PlateCarrierComplete") && !parent.lsK
■ return true;
| | |
■■return false;
■override void OnWorkStart()
■if (!GetGame().IsServer() | !GetGame().IsMultiplayer()) // Client side
■■■m_Light = PistollightLight.Cast( ScriptedLightBase.CreateLight(PistollightLight, "0 0 0", 0.08) ); // Po
■■■m_Light.AttachOnMemoryPoint(this, "beamStart", "beamEnd");
■■■SetObjectMaterial(GLASS_ID, LIGHT_ON_GLASS);
■■■SetObjectMaterial(REFLECTOR_ID, LIGHT_ON_REFLECTOR);
|
■override void OnWork( float consumed_energy )
■■if (!GetGame().IsServer() || !GetGame().IsMultiplayer() ) // Client side
■■■Battery9V battery = Battery9V.Cast( GetCompEM().GetEnergySource() );
 ■■if (battery && m_Light)
  float efficiency = battery.GetEfficiency0To1();
■■■if (efficiency < 1)
  ■■■m_Light.SetIntensity( efficiency, GetCompEM().GetUpdateInterval() );
 I■■else
 ■■■■m_Light.SetIntensity( 1, 0 );
```

Į.

```
// ----- ToggleSelections.c - START -------
class ToggleAnimations
■protected string m_ToggleOff;■protected string m_ToggleOn;
■int m_OpeningBit;
■//ref protected array<string> ■m_ToggleOffLinkedAnimations;
■//ref protected array<string> ■m_ToggleOnLinkedAnimations;
■void ToggleAnimations( string toggle_off, string toggle_on, int mask, array<string> linked_anims_off = nu
■■m_ToggleOff = toggle_off;
■■m_ToggleOn = toggle_on;
■■m_OpeningBit = mask;
■■//m_ToggleOffLinkedAnimations = linked_anims_off;
■■//m_ToggleOnLinkedAnimations = linked_anims_on;
■string GetToggleOff()
■■return m_ToggleOff;
■string GetToggleOn()
■■return m_ToggleOn;
■int GetOpeningBit()
■■return m_OpeningBit;
■}
■/*array<string> GetLinkedOff()
■■return m_ToggleOffLinkedAnimations;
■}
■array<string> GetLinkedOn()
■ return m_ToggleOnLinkedAnimations;
■}*/
/// ----- ToggleSelections.c - END ------
// ----- Tomato.c - START -----
class Tomato : Edible_Base
```

■override hool CanBeCookedOnStick()

```
// ----- TomatoSeedsPack.c - START ------
class TomatoSeedsPack extends SeedPackBase
// ----- TomatoSeedsPack.c - END -----
// ----- ToolBase.c - START -----
//TODO trees are static objects, there is no script event for playing sounds on clients when they are chopp class ToolBase extends ItemBase
■protected int m_MineDisarmRate = 60; //Success rate when disarming with this tool
■void ToolBase()
■int GetDisarmRate()
■ return m_MineDisarmRate;
■}
■override void OnRPC(PlayerIdentity sender, int rpc_type,ParamsReadContext_ctx)
■ super.OnRPC(sender, rpc_type,ctx);
■■switch(rpc_type)
■■■case PlantType.TREE_HARD:
■■■■SoundHardTreeFallingPlay();
■■break:
■■■case PlantType.TREE_SOFT:
■■■■SoundSoftTreeFallingPlay();
■■break:
■■■case PlantType.BUSH_HARD:
■■■■SoundHardBushFallingPlay();
■■break;
■■■case PlantType.BUSH_SOFT:
■■■■SoundSoftBushFallingPlay();
■■■break;
| ||
■}
// -----
```

// ----- ToolBase c - FND ------

```
// ----- tools.c - START ------
* \defgroup Tools
* \desc Helpful functions & classes
const int CALL_CATEGORY_SYSTEM = 0; // Runs always const int CALL_CATEGORY_GUI = 1; // Runs always (on client)
const int CALL_CATEGORY_GAMEPLAY = 2; // Runs unless ingame menu is opened
const int CALL_CATEGORY_COUNT = 3;
class CallQueueContext
■Class m_target;
■string m_function;
■ref Param m_params;
■bool m_valid;
■void CallQueueContext(Class target, string fn, Param params)
■m_target = target;
\blacksquare \blacksquare m_{function} = fn;
■m_params = params;
■m_valid = true;
■}
■void Call()
■ CallParams(m_params);
■}
■void CallParams(Param params)
[
■If (params)
■■■GetGame().GameScript.CallFunctionParams(m_target, m_function, NULL, params);
——}
■■else
■■{
■■■GetGame().GameScript.CallFunction(m_target, m_function, NULL, 0);
■}
■void Invalidate() {
■■m_valid = false;
■bool IsValid(){
■■return m_valid;
■}
};
```

\hrief CallQueue Class provide "lazy" calls - when we don't want to execute function immediately but later

```
// ----- Torch.c - START -----
class FlammableBase: ItemBase
■void FlammableBase()
■Init();
■private SoundOnVehicle■m_LoopSoundEntity;
■Particle ■■■■m_FireParticle;
■bool■■■■■m_CanReceiveUpgrade; // Synchronized variable
■bool■■■■■m_IsBeingDestructed = false;
■float ■■■■■m_BurnTimePerRagEx;
■float ■■■■■m_BurnTimePerFullLardEx;
■float ■■■■■m_BurnTimePerFullFuelDoseEx;
■float ■■■■■m_MaxConsumableLardQuantityEx;
■float ■■■■■m_MaxConsumableFuelQuantityEx;
■float ■■■■m_WaterEvaporationByFireIntensityEx = 0.001;
■int ■■■■■m_StartFadeOutOfLightAtQuantityEx = 3;
■int ■■■■■m_RagsUpgradedCount;//how many rags were upgraded with fuel/lard
■bool■■■■■m_ConsumeRagFlipFlop;//are we burning rag or fuel/lard
\blacksquarevector \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare ParticleLocalPos = Vector(0, 0.50, 0);
■string■■■■■m_DecraftResult = "WoodenStick";
■TorchLight■■■m_Light;
■bool■■■■■■ WasLit;//was this item ever lit? (used for correct material setting after reconnect for exting
■protected ref UniversalTemperatureSource m_UTSource;
■protected ref UniversalTemperatureSourceSettings m_UTSSettings;
protected ref UniversalTemperatureSourceLambdaConstant m_UTSLConstant;
■override void DeferredInit()
■■if(m_RagsUpgradedCount)
■■LockRags(true);
■}
■void Init()
■■if ( m_BurnTimePerRagEx == 0 || m_BurnTimePerFullLardEx == 0 || m_MaxConsumableLardQuantityI
 ■■■string cfg_path = "CfgVehicles " + GetType();
■■■m_BurnTimePerRagEx = GetGame().ConfigGetFloat( cfg_path + " burnTimePerRag" );
■■■m_BurnTimePerFullLardEx = GetGame().ConfigGetFloat( cfg_path + " burnTimePerFullLardDose" );
■■■m_BurnTimePerFullFuelDoseEx = GetGame().ConfigGetFloat(cfg_path + "burnTimePerFullFuelDoseEx
■■■m_MaxConsumableLardQuantityEx = GetGame().ConfigGetFloat( cfg_path + " maxConsumableLard
■■■m_MaxConsumableFuelQuantityEx = GetGame().ConfigGetFloat( cfg_path + " maxConsumableFuelQuantityEx = GetGame().ConfigGetFloat( cfg_path + " maxConsumableFue
 ■■RegisterNetSyncVariableBool("m_CanReceiveUpgrade");
■override void EEInit()
```

■ super.EEInit();

```
// ----- TorchLight.c - START -----
class TorchLight extends PointLightBase
■static float m_TorchRadius = 30;
■static float m_TorchBrightness = 5.0;
■void TorchLight()
■■SetVisibleDuringDaylight(false);
■■SetRadiusTo( m_TorchRadius );
■■SetBrightnessTo(m_TorchBrightness);
■■SetCastShadow(true);
■■SetFadeOutTime(1);
■SetDiffuseColor(1.0, 0.45, 0.25);
■SetAmbientColor(1.0, 0.45, 0.25);
■■SetFlareVisible(false);
■■SetFlickerAmplitude(0.55);
■■SetFlickerSpeed(0.75);
SetDancingShadowsMovementSpeed(0.1);
■■SetDancingShadowsAmplitude(0.03);
■■EnableHeatHaze(true);
■■SetHeatHazeRadius(0.08);
■■SetHeatHazePower(0.015);
■override void OnFrameLightSource(IEntity other, float timeSlice)
// ------
// ----- TorchLight.c - END -----------------------//
// ----- Torso.c - START -----
class MaleTorso_Base extends InventoryItem {};
class FemaleTorso_Base extends InventoryItem {};
class MaleAdamTorso extends MaleTorso_Base {};
class MaleBorisTorso extends MaleTorso_Base {};
class MaleCyrilTorso extends MaleTorso_Base {};
class MaleDenisTorso extends MaleTorso_Base {};
class MaleEliasTorso extends MaleTorso_Base {};
class MaleFrancisTorso extends MaleTorso_Base {};
class MaleGuoTorso extends MaleTorso_Base {};
class MaleHassanTorso extends MaleTorso_Base {};
class MaleIndarTorso extends MaleTorso_Base {};
class MaleJoseTorso extends MaleTorso_Base {};
class MaleKaitoTorso extends MaleTorso_Base {}
class MaleLewisTorso extends MaleTorso_Base {};
class MaleManuaTorso extends MaleTorso_Base {};
```

class MaleNikiTorso extends MaleTorso Rase ().

```
// ----- TorsoCover_improvised.c - START -----
class TorsoCover_Improvised extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- TorsoCover_improvised.c - END ------
// ----- TortillaBag.c - START ------
class TortillaBag : Clothing {};
// -----
// ----- TortillaBag.c - END -----
// -----
// ----- Totem.c - START -----
class TerritoryFlag extends BaseBuildingBase
■const float MAX_ACTION_DETECTION_ANGLE_RAD ■■= 1.3;■■//1.3 RAD = ~75 DEG
■const float MAX_ACTION_DETECTION_DISTANCE ■■= 2.0;■■//meters
■bool m_RefresherActive;
■bool m_RefresherActiveLocal;
■bool m_RefresherInitialized;
■int m_RefresherTimeRemaining;
■int m_RefreshTimeCounter;
■protected int m_FlagRefresherFrequency = GameConstants.REFRESHER_FREQUENCY_DEFAULT;
■protected int m_FlagRefresherMaxDuration = GameConstants.REFRESHER_MAX_DURATION_DEFAL
■void TerritoryFlag()
■■m_RefresherActive = false;
■■m_RefresherActiveLocal = false;
■■m_RefresherInitialized = false;
■■m_RefresherTimeRemaining = 0;
```

■■if (GetCEApi())

```
// ----- TotemKit.c - START ------
class TerritoryFlagKit extends KitBase
■override bool PlacementCanBeRotated()
■■return false;
■override bool DoPlacingHeightCheck()
■ return true;
■override float HeightCheckOverride()
■ return 11.3;
■override bool CanReceiveAttachment(EntityAl attachment, int slotId)
■■if (!super.CanReceiveAttachment(attachment, slotId))
■■ return false:
■■ItemBase att = ItemBase.Cast(GetInventory().FindAttachment(slotId));
■■if (att)
■■■return false;
■■return true;
■// ADVANCED PLACEMENT
■override void OnPlacementComplete( Man player, vector position = "0 0 0", vector orientation = "0 0 0")
■■super.OnPlacementComplete( player, position, orientation );
■■if ( GetGame().IsServer() )
■■■//Create TerritoryFlag
■■■TerritoryFlag totem = TerritoryFlag.Cast( GetGame().CreateObjectEx( "TerritoryFlag", GetPosition(),
■■■totem.SetPosition( position );
■■totem.SetOrientation( orientation );
■■■//make the kit invisible, so it can be destroyed from deploy UA when action ends
■■■HideAllSelections();
■■■SetIsDeploySound( true );
|
■override void DisassembleKit(ItemBase item)
■if (!IsHologram())
■■■ItemBase stick = ItemBase.Cast(GetGame().CreateObjectEx("WoodenStick",GetPosition(),ECE_PLA
■■■MiscGameplayFunctions.TransferItemProperties(this, stick);
```

■■stick SetOuantity(3):

```
// ----- Toxicity.c - START -----
class ToxicityMdfr: ModifierBase
■private const float■ ■TOXICITY_CLEANUP_PER_SEC = 1;
■private const float ■VOMIT_THRESHOLD = 70;
■override void Init()
■■m_TrackActivatedTime = false;
■■m_ID ■■■■= eModifiers.MDF_TOXICITY;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■■DisableDeactivateCheck();
■override bool ActivateCondition(PlayerBase player)
■ return true;
■}
■override bool DeactivateCondition(PlayerBase player)
■return false;
■override void OnTick(PlayerBase player, float deltaT)
■■player.GetStatToxicity().Add( -TOXICITY_CLEANUP_PER_SEC * deltaT );
■■if( player.GetStatToxicity().Get() > VOMIT_THRESHOLD )
SymptomBase symptom = player.GetSymptomManager().QueueUpPrimarySymptom(SymptomIDs.S
■■■if( symptom )
TELE symptom. SetDuration(Math.RandomIntInclusive(4,8));
■override void OnReconnect(PlayerBase player)
■{
|}
■override void OnActivate(PlayerBase player)
■{
■}
// ----- Toxicity.c - END ------
```

```
// ----- TrackSuitJacket_ColorBase.c - START ------
class TrackSuitJacket_ColorBase extends Clothing
■override void SetActions()
 ■■super.SetActions();
■■AddAction(ActionWringClothes);
class TrackSuitJacket_Black extends TrackSuitJacket_ColorBase {};
class TrackSuitJacket_Blue extends TrackSuitJacket_ColorBase {};
class TrackSuitJacket_Green extends TrackSuitJacket_ColorBase {}; class TrackSuitJacket_LightBlue extends TrackSuitJacket_ColorBase {}; class TrackSuitJacket_Red extends TrackSuitJacket_ColorBase {};
// ----- TrackSuitJacket_ColorBase.c - END ------//
class TrackSuitPants_ColorBase extends Clothing
■override void SetActions()
 ■■super.SetActions();
■■AddAction(ActionWringClothes);
class TrackSuitPants_Black extends TrackSuitPants_ColorBase {};
class TrackSuitPants_Blue extends TrackSuitPants_ColorBase {};
class TrackSuitPants_Green extends TrackSuitPants_ColorBase {}; class TrackSuitPants_Red extends TrackSuitPants_ColorBase {};
class TrackSuitPants_LightBlue extends TrackSuitPants_ColorBase {};
//
// ----- TrackSuitPants_ColorBase.c - END ------
...
// ----- TransferValues.c - START ------
class TransferValues extends Managed
■const int TYPE_HEALTH ■= 1;
■const int TYPE_BLOOD ■= 2;
■const float VALUE_CHECK_INTERVAL■ ■= 5;
■const float SENSITIVTY_PERCENTAGE ■■= 1;//how much the value needs to change up/down from processing the second second
```

```
---- TransmitterBase.c - START -----
//TRANSMITTER BASE
class TransmitterBase extends ItemTransmitter
■//Sounds
■string SOUND_RADIO_TURNED_ON ■■= "";
■protected EffectSound m_SoundLoop;
■// --- SYSTEM EVENTS
■override void OnStoreSave( ParamsWriteContext ctx )
■■super.OnStoreSave( ctx );
■■//store tuned frequency
■■ctx.Write( GetTunedFrequencyIndex() );
■override bool OnStoreLoad( ParamsReadContext ctx, int version )
■■if (!super.OnStoreLoad(ctx, version))
■■ return false;
■■//--- Transmitter data ---
■■//load and set tuned frequency
■■int tuned_frequency_idx;
■■if (!ctx.Read(tuned_frequency_idx))
■■SetFrequencyByIndex(0);■■//set default
■■return false;
SetFrequencyByIndex( tuned_frequency_idx );
//---
■return true;
■override bool IsTransmitter()
■■return true;
•}
■//--- ACTIONS
■void SetNextFrequency( PlayerBase player = NULL )
■■SetNextChannel();
-/*
■ if (player)
■■DisplayRadioInfo( GetTunedFrequency().ToString(), player );
| |*/
■}
■//--- HUD
■protected Hud GetHud( PlayerBase player )
```

```
// ----- Transport.c - START -----
■Base native class of all vehicles in game.
class Transport extends EntityAI
■ref TIntArray m_SingleUseActions;
■ref TIntArray m_ContinuousActions;
■ref TIntArray m_InteractActions;
■void Transport()
[
■override int GetMeleeTargetType()
■■return EMeleeTargetType.NONALIGNABLE;
■//! Synchronizes car's state in case the simulation is not running.
■proto native void Synchronize();
■//! Returns crew capacity of this vehicle.
■proto native int CrewSize();
■//! Returns crew member index based on action component index.
■//! -1 is returned when no crew position corresponds to given component index.
■proto native int CrewPositionIndex( int componentIdx );
■//! Returns crew member index based on player's instance.
■//! -1 is returned when the player is not isnide.
■proto native int CrewMemberIndex( Human player );
■//! Returns crew member based on position index.
■//! Null can be returned if no Human is present on the given position.
■proto native Human CrewMember( int posldx );
■//! Reads entry point and direction into vehicle on given position in model space.
■proto void CrewEntry(int posldx, out vector pos, out vector dir);
■//! Reads entry point and direction into vehicle on given position in world space.
■proto void CrewEntryWS(int posldx, out vector pos, out vector dir);
■//! Returns crew transformation indside vehicle in model space
■proto void CrewTransform( int posldx, out vector mat[4] );
■//! Returns crew transformation indside vehicle in world space
■proto void CrewTransformWS( int posldx, out vector mat[4]);
■//! Performs transfer of player from world into vehicle on given position.
■proto native void CrewGetIn( Human player, int posldx );
■//! Performs transfer of player from vehicle into world from given position.
■proto native Human CrewGetOut( int posldx );
■//! Handles death of player in vehicle and awakes its physics if needed
```

■nroto native void CrewDeath(int nosldy)·

```
// ----- TransportInventory.c - START ------
/**@class■■TransportInventory
* @brief■■inventory for transport ("man cargo")
class TransportInventory : GameInventory
// ----- TransportInventory.c - END -----
// -----
// ----- TrapBase.c - START ------//
enum SoundTypeTrap
\blacksquareACTIVATING \blacksquare \blacksquare = 5,
class TrapBase extends ItemBase
■#ifdef SERVER
■protected const int SPAWN_FLAGS ■■■■= ECE_CREATEPHYSICS;
■protected const int SPAWN_FLAGS ■■■■ = ECE_LOCAL;
■#endif
■protected const int DAMAGE_TRIGGER_MINE ■■= 75;
■protected const float UPDATE_TIMER_INTERVAL ■= 0.05;
■int m_InitWaitTime; ■■■//After this time after deployment, the trap is activated
■bool m_NeedActivation;■■■//If activation of trap is needed
■float m_DefectRate; ■■■//Added damage after trap activation
■float m_DamagePlayers; ■■■//How much damage player gets when caught
■float m_DamageOthers; ■■■//How much damage player gets when caught
■bool m_AddActivationDefect;■■// Damage trap after activation
■bool m_AddDeactivationDefect; ■// Damage trap after deactivation
■protected bool m_IsActive;■■// True means that the trap is ready to detonate
■protected bool m_lsInProgress;
■protected bool m_Disarmed = false; //! DEPRECATED Used for explosive traps to prevent detonation aft
■bool m_WasActivatedOrDeactivated;
■string m_AnimationPhaseGrounded;
■string m_AnimationPhaseSet;
■string m_AnimationPhaseTriggered;
■string m_InfoSetup;
```

■string m_InfoDeactivated:

■string m InfoDamageManipulation:

```
// ----- TrapSpawnBase.c - START -----
class TrapSpawnBase extends ItemBase
■int ■■■■■■■m_InitWaitTime; ■■■//After this time after deployment, the trap is activated
■int ■■■■■■■■ UpdateWaitTime; ■■■//Time when timer will be called again until success or not success or not success or not success.
■float ■■■■■■■ DefectRate; ■■■■//Added damage after trap activation
■bool ■■■■■■■ IsFoldable:
■bool■■■■■■■ CanCatch = false:
■float ■■■■■■■■m_MinimalDistanceFromPlayersToCatch;
■float■■■■■■■m_BaitCatchProb; // The probability (0-100) to catch something when bait is attached
■float■■■■■■■m_NoBaitCatchProb; // The probability (0-100) to catch something when no bait is attacl
■float■■■■■■■ FinalCatchProb; // The selected catch probability (0-100) -> Will be overriden no need
■protected EntityAl■■■m_Bait;
■protected bool ■■■■■m_IsActive;
protected bool ■■■■■m_lsDeployed;
■protected bool ■■■■■m_lsInProgress;
■ref Timer ■■■■■■ Timer;
■string ■■■■■■■■m_AnimationPhaseSet;
■string ■■■■■■■m_AnimationPhaseTriggered;
■string ■■■■■■■■■■ AnimationPhaseUsed;
■const string ■■■■■ PlaceableWaterType //! DEPRECATED
■protected ref array<string>■■m_PlaceableWaterSurfaceList;
■bool m_WaterSurfaceForSetup;
//if trap can be installed on water surface (cannot be detected via getsu
■ref multiMap<string, float>■m_CatchesPond; ■//array of catches that can be catched in trap - string key,
■ref multiMap<string, float>■m_CatchesSea;■//array of catches that can be catched in trap - string key, float
■ref multiMap<string, float>■m_CatchesGroundAnimal;■//array of catches that can be catched in trap - s
■protected ref EffectSound ■m_DeployLoopSound;
1// -----
■ref Timer ■■■■■■ PrevTimer;
■bool ■■■■■■■■m_NeedInstalation;
■bool ■■■■■■■■■ BaitNeeded;
■bool ■■■■■■■m_lsUsable;
■private ItemBase ■■■■m_Catch;
ref Timer ■■■■■■ AlignCatchTimer:
■string ■■■■■■■m_InfoSetup;
■void TrapSpawnBase()
■■m_DefectRate ■■■■■■■= 10; ■■■//Added damage after trap activation
■■m_UpdateWaitTime ■■■■■■= 10;
■■m_InitWaitTime ■■■■■■= 10;
■■m_NeedInstalation ■■■■■= true;
■■m BaitNeeded ■■■■■■= true;
■■m_lsFoldable ■■■■■= false;
```

■■m_MinimalDistanceFromPlayersToCatch ■– 0:

```
---- TrapTrigger.c - START ----
//! Trigger used by traps
class TrapTrigger: Trigger
■TrapBase m_ParentObj;
■#ifdef DEVELOPER
■bool m_CanSendDbg = true;
■#endif
■void SetParentObject( TrapBase obj )
■■if (GetGame().IsServer())
■■■m_ParentObj = obj;
■■}
•}
■override protected bool CanAddObjectAsInsider(Object object)
■ return object.IsInherited(EntityAI) && m_ParentObj && m_ParentObj.IsActive();
• override protected void OnEnterServerEvent(TriggerInsider insider)
■#ifdef DEVELOPER
■■m_CanSendDbg = false;
■■#endif
■■if (m_ParentObj && m_ParentObj.lsActive())
ParentObj.SnapOnObject(EntityAl.Cast(insider.GetObject()));
■■}
|}
■override protected void OnLeaveServerEvent(TriggerInsider insider)
■■if (m_ParentObj && m_ParentObj.lsActive())
■■■m_ParentObj.RemoveFromObject(EntityAl.Cast(insider.GetObject()));
■■}
■#ifdef DEVELOPER
■override void DebugSendDmgTrigger()
■■if ( m_CanSendDbg )
■■■super.DebugSendDmgTrigger();
■#endif
// Used for tripwire type traps, where we want to allow players to go through
class TripWireTrigger: TrapTrigger
override protected void OnEnterServerEvent( TriggerInsider insider )
```

```
// ----- Trap_Bear.c - START -----
class BearTrap extends TrapBase
■static const int RAYCAST_SOURCES_COUNT = 5;
■// Raycasts start positions:
■// Positions are local to model. Vertical offset prevents ground collision.
■static const vector m_RaycastSources[RAYCAST_SOURCES_COUNT] = {
■■"0.0 0.1 0.0",■// center
■■"0.2 0.1 0.2",■// north east
■■"-.2 0.1 0.2",■// north west
■■"0.2 0.1 -0.2", ■// south east
■■"-0.2 0.1 -0.2 male // south west
■};
■void BearTrap()
■■m_DamagePlayers ■■■= 5; ■■■■// How much damage player gets when caught
                                   ■■// How much damage other entities(CreatureAI) gets when caug
■■m DamageOthers ■■■■= 5;
■■m_DefectRate ■■■■= 0;
■■m_InitWaitTime ■■■■= 0; ■■■■// After this time after deployment, the trap is activated
■■m_AnimationPhaseGrounded ■= "placing";
■■m_AnimationPhaseSet ■■= "BearTrap_Set";
■■m_AnimationPhaseTriggered ■= "placing";
■override bool CanBeDisarmed()
■ return true;
■}
■override void EEHealthLevelChanged(int oldLevel, int newLevel, string zone)
■■super.EEHealthLevelChanged(oldLevel, newLevel, zone);
■■if (GetGame().IsServer())
■■■if (newLevel == GameConstants.STATE_RUINED)
■■■SetInactive();
——}
|
■override void CreateTrigger()
■super.CreateTrigger();
■■vector mins■■= "-0.1 -0.05 -0.1";
■■vector maxs ■= "0.1 0.4 0.1";
■■m_TrapTrigger.SetOrientation(GetOrientation());
■■m_TrapTrigger.SetExtents(mins, maxs);
■■m_TrapTrigger.SetParentObject(this);
■override void OnUpdate(EntityAl victim)
■ if (victim && victim.lsInherited(CarScript))
```

```
// ----- Trap_FishNet.c - START ------
class Trap_FishNet extends TrapSpawnBase
■void Trap_FishNet()
■ m_DefectRate = 15; ■ ■ M/Added damage after trap activation
\blacksquarem_InitWaitTime = Math.RandomFloat(900,1500);
■■m_UpdateWaitTime = 30;
■■m_IsFoldable = true;
■■m_MinimalDistanceFromPlayersToCatch ■= 15;
■■m BaitCatchProb ■■■■■■= 85;
■■m_NoBaitCatchProb■■■■■= 15;
■■m_AnimationPhaseSet ■■■■= "inventory";
■■m_AnimationPhaseTriggered ■■■= "placing";
■■m_AnimationPhaseUsed ■■■■= "triggered";
■■m_WaterSurfaceForSetup = true;
m_CatchesPond = new multiMap<string, float>;
■■m_CatchesPond.Insert("Carp",1);
m_CatchesSea = new multiMap<string, float>;
■■m_CatchesSea.Insert("Mackerel",1);
■override void OnVariablesSynchronized()
■super.OnVariablesSynchronized();
■■if (IsPlaceSound())
■■PlayPlaceSound();
==}
■override void SpawnCatch()
■■super.SpawnCatch();
■■if ( m_CanCatch )
■■■multiMap<string, float>■catches;
■■■vector pos = GetPosition();
■■■ItemBase catch;
■■■// Select catch type depending on water type (FRESH VS SALT)
■■■if ( GetGame().SurfaceIsSea( pos[0], pos[2] ) )
■■■catches = m_CatchesSea;
```

else if (GetGame() SurfaceIsPond(nos[0] nos[2]))

```
// ----- Trap_LandMine.c - START ------
enum SoundTypeMine
■DISARMING = 0
class LandMineTrap extends TrapBase
■protected ref EffectSound m_TimerLoopSound;
■protected ref EffectSound m_DisarmingLoopSound;
■protected ref Timer m_DeleteTimer;
■private const int BROKEN_LEG_PROB ■= 90;
■private const int BLEED_SOURCE_PROB = 50;
■private const int MAX_BLEED_SOURCE ■= 1;
■void LandMineTrap()
■■m_DefectRate ■■■= 15;
■■m_DamagePlayers ■■= 0; ■■■//How much damage player gets when caught
■■m_InitWaitTime ■■■= 10; ■■■//After this time after deployment, the trap is activated
■■m_InfoActivationTime ■= string.Format("#STR_LandMineTrap0%1#STR_LandMineTrap1", m_InitWait
m_AddDeactivationDefect = true;
■■//Order is important and must match clothing array in DamageClothing method
■■m_ClothingDmg = new array<int>;
■■m_ClothingDmg.Insert(60); ■//Trousers
■■m_ClothingDmg.Insert(100);■//BackPack
■■m_ClothingDmg.Insert(40); ■//Vest
■■m_ClothingDmg.Insert(10); ■//HeadGear
■■m_ClothingDmg.Insert(10);
■//Mask
■■m_ClothingDmg.Insert(40);■//Body
■■m_ClothingDmg.Insert(50);■//Feet
■■m_ClothingDmg.Insert(5);■//Gloves
■void ~LandMineTrap()
■■SEffectManager.DestroyEffect(m_TimerLoopSound);
■■SEffectManager.DestroyEffect(m_DisarmingLoopSound);
■override void StartActivate(PlayerBase player)
■■super.StartActivate(player);
■■if (!GetGame().IsDedicatedServer())
■■■EffectSound sound = SEffectManager.PlaySound("landmine_safetyPin_SoundSet", GetPosition(), 0,
■■■sound.SetAutodestroy( true );
■■■m_TimerLoopSound = SEffectManager.PlaySound("landmine_timer2_SoundSet", GetPosition(), 0, 0
——}
■}
■override void OnActivatedByItem(notnull ItemBase item)
■ SetHealth("", "", 0.0);
```

■■DeleteThis/

```
// ----- Trap_RabbitSnare.c - START ------
class Trap_RabbitSnare extends TrapSpawnBase
■void Trap_RabbitSnare()
■ m_DefectRate = 15; ■ ■ M/Added damage after trap activation
\blacksquarem_InitWaitTime \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare Math.RandomInt(900, 1500);
■■m_UpdateWaitTime ■■■■■= 30;
■■m_lsFoldable ■■■■■■= true;
■■m_lsUsable ■■■■■■■= true;
■■m_MinimalDistanceFromPlayersToCatch ■= 30;
■■m_BaitCatchProb ■■■■■= 85;
■■m_NoBaitCatchProb■■■■■= 15;
■■m_AnimationPhaseSet ■■■■= "inventory";
■■m_AnimationPhaseTriggered ■■■■= "placing";
■■m_AnimationPhaseUsed ■■■■= "triggered";
■■m_WaterSurfaceForSetup = false;
■■m CatchesGroundAnimal = new multiMap<string, float>;
■■m_CatchesGroundAnimal.Insert("DeadRooster", 1);
■■m_CatchesGroundAnimal.Insert("DeadChicken_White", 1);
■■m_CatchesGroundAnimal.Insert("DeadChicken_Spotted", 1);
■■m_CatchesGroundAnimal.Insert("DeadChicken_Brown", 1);
■■// ALWAYS keep rabbit last as that is how it gets the rabbit in case of rabbit specific bait
■■m_CatchesGroundAnimal.Insert("DeadRabbit", 1);
|
■override bool CanBePlaced(Man player, vector position)
■■if (m_IsBeingPlaced)
■■■return true;
■Int liquidType;
■■string surfaceType;
■■g_Game.SurfaceUnderObject(PlayerBase.Cast(player).GetHologramLocal().GetProjectionEntity(), surf
■■return g_Game.lsSurfaceDigable(surfaceType);
■override void OnVariablesSynchronized()
■■super.OnVariablesSynchronized();
■■if (IsPlaceSound())
■■PlayPlaceSound();
==}
■}
■override void SetupTrap()
■■if ( GetGame().lsServer() )
```

■■■if (GetHierarchyRootPlayer().CanDropEntity(this))

```
----- Trap_SmallFish.c - START -----
class Trap_SmallFish extends TrapSpawnBase
■void Trap_SmallFish()
■ m_DefectRate = 15; ■ ■ M/Added damage after trap activation
\blacksquarem_InitWaitTime = Math.RandomFloat(900,1500);
■m_UpdateWaitTime = 30;
■■m_AnimationPhaseSet ■■■■= "inventory";
■■m_AnimationPhaseTriggered ■■■■= "placing";
■■m_AnimationPhaseUsed ■■■■= "triggered";
■■m_MinimalDistanceFromPlayersToCatch ■= 15;
■■m_BaitCatchProb ■■■■■■= 85;
■■m NoBaitCatchProb■■■■■= 15;
■■m_WaterSurfaceForSetup = true;
m_CatchesPond = new multiMap<string, float>;
■■m_CatchesPond.Insert("Bitterlings", 1);
■■m CatchesSea = new multiMap<string, float>;
■■m_CatchesSea.Insert("Sardines",1);
■override void OnVariablesSynchronized()
■super.OnVariablesSynchronized();
■■if (IsPlaceSound())
■■PlayPlaceSound();
==}
■}
■override void SpawnCatch()
■■super.SpawnCatch();
■■if ( m_CanCatch )
■■■// We get the prey position for spawning
■■■multiMap<string, float>■catches;
■■■vector pos = GetPosition();
■■■ItemBase catch:
■■■// Select catch type depending on water type (FRESH VS SALT)
■■■if ( GetGame().SurfaceIsSea( pos[0], pos[2] ) )
■■■catches = m_CatchesSea;
 ■■else if ( GetGame().SurfaceIsPond( pos[0], pos[2] ) )
 ■■■catches = m_CatchesPond;
```

```
// ----- Trap_TripWire.c - START -----
// Wire type is used in the case of decrafting to give back the correct base Ingredient
enum eWireMaterial
■WIRE ■■= 0,
■BARBED_WIRE = 1,
■ROPE ■■= 2
class TripwireTrap: TrapBase
■// Current state of the tripwire
■static const int ■FOLDED = 3;
■static const int ■DEPLOYED = 2;
■static const int ■TRIGGERED = 1;
■int ■■m_State = FOLDED;
■private int m WireMaterial;
■protected bool m_ResultOfAdvancedPlacing;
■protected vector m_TriggerPosition;
■protected vector m_TriggerOrientation;
■void TripwireTrap()
■■m_DamagePlayers = 0; ■■■//How much damage player gets when caught
■■m_InitWaitTime = 0; ■■■//After this time after deployment, the trap is activated
■■m_DefectRate = 15;
■■m_NeedActivation = false;
■■m_AnimationPhaseGrounded = "inventory";
■m_AnimationPhaseSet = "placing";
■■m_AnimationPhaseTriggered = "triggered";
■■m_InfoActivationTime = string.Format("#STR_TripwireTrap0%1#STR_TripwireTrap1", m_InitWaitTime
■■RegisterNetSyncVariableInt("m_State");
■override void OnVariablesSynchronized()
■super.OnVariablesSynchronized();
■■if (IsPlaceSound())
■■PlayPlaceSound();
■}
■override void OnStoreSave(ParamsWriteContext ctx)
■■super.OnStoreSave(ctx);
■■ctx.Write( m_State );
■}
■override bool OnStoreLoad(ParamsReadContext ctx, int version)
■if (!super.OnStoreLoad(ctx, version))
```

■■return false:

```
----- Trees.c - START ------
//Birch tree baseclasses (white bark)
class TreeHard_BetulaPendula: TreeHard
};
class TreeSoft_BetulaPendula_Base: TreeSoft
//TreeSoft
class TreeSoft_t_BetulaPendula_1f: TreeSoft_BetulaPendula_Base
class TreeSoft_t_BetulaPendula_1fb: TreeSoft_BetulaPendula_Base
class TreeSoft_t_BetulaPendula_1s: TreeSoft_BetulaPendula_Base
class TreeSoft_t_BetulaPendula_2f: TreeSoft_BetulaPendula_Base
class TreeSoft_t_BetulaPendula_2fb: TreeSoft_BetulaPendula_Base
class TreeSoft_t_BetulaPendula_2fc: TreeSoft_BetulaPendula_Base
class TreeSoft_t_BetulaPendula_2w: TreeSoft_BetulaPendula_Base
class TreeSoft_t_FagusSylvatica_1f: TreeSoft
class TreeSoft_t_FagusSylvatica_1fc: TreeSoft
class TreeSoft_t_FagusSylvatica_1fd: TreeSoft
class TreeSoft_t_FagusSylvatica_1s: TreeSoft
```

```
// ----- Tremor.c - START ------
class TremorMdfr: ModifierBase
■private const float ■TREMOR_DECREMENT_PER_SEC = 0.008;
■override void Init()
■ TrackActivatedTime = false;
■■m_ID ■■■■= eModifiers.MDF_TREMOR;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■override bool ActivateCondition(PlayerBase player)
■■if ( player.GetStatTremor().Get() > player.GetStatTremor().GetMin() )
■■return true:
else
----
■ return false;
——}
•}
■override bool DeactivateCondition(PlayerBase player)
■if (player.GetStatTremor().Get() == player.GetStatTremor().GetMin())
■ return true;
■■else
■ return false:
|
■}
■override void OnTick(PlayerBase player, float deltaT)
■ player.GetStatTremor().Add( (TREMOR_DECREMENT_PER_SEC*deltaT) );
■■//Mirek: SetShakeBodyFactor is removed now, because it worked only on legacy animation system
■■//player.SetShakeBodyFactor(player.GetStatTremor().Get());
■■//_person SetBodyShaking tremor; ASK GAMEPLAY PROGRAMMERS TO EXPOSE THIS ENGINE F
■■//PrintString( "Tremor:" + ToString(tremor) );
■}
};
// ----- Tremor.c - END ------
```

```
....// ----- TrialService.c - START ------
//! TrialService is used to query if the game is trial version or not
class TrialService
/*!
■■Xbox: Retrieves if the game license is trial
■■@param blsSimulator switch in between the testing simulator for trial and the retail version.
■■■■■■■If the game is in retail mode it automatically ignores this switch and
INTERPOLE uses the correct app runtime version.
■■@return boolean if the game is in trial mode.■■
■proto native bool IsGameTrial(bool blsSimulator);
■■Xbox: Retrieves if the game license is active
■■@param blsSimulator switch in between the testing simulator for trial and the retail version.
■■■■■■If the game is in retail mode it automatically ignores this switch and
EXECUTE: uses the correct app runtime version.
■■@return boolean if the game is in trial mode.
■proto native bool IsGameActive(bool blsSimulator);
// -----
// ----- TrialService.c - END -----
// ----- Trigger.c - START -----
//! The object which is in a trigger and its metadata
class TriggerInsider
ref OLinkT insider; // DEPRECATED
■//! Object that data belongs to
■protected Object m_Object;
■//! Last time the object was seen in ms
■int timeStamp;
■//! Time the object was first seen in seconds
■float timeEntered:
■//! Last time the object was updated in seconds, is used for calculating deltaTime
■float lastUpdated;
■void TriggerInsider(Object obj)
■insider = new OLinkT(obj);
```

■■m Ohiect – ohi:

```
----- TriggerCarrierBase.c - START ------
class UndergroundTriggerCarrierBase extends ScriptedEntity
■int m_TriggerIndex = -1;
■void SetIndex(int index)
■ m_TriggerIndex = index;
■■SetSynchDirty();
// ----- TriggerCarrierBase.c - END ------
// ----- TriggerEffectManager.c - START ------
DISCLAIMER: may undergo some changes in the course of 1.14 experimental stage.
// Used for Effect based triggers ( such as Contaminated areas )
// Allows us to unify these triggers and treat Enter / Exit events as if all triggers were one
class TriggerEffectManager
■static ref TriggerEffectManager m_This;
■// Player map will only be handled client side as it is most relevant
■ref map<string, ref map<PlayerBase, int>> m_PlayerInsiderMap; // Used to keep track of which players a
■void TriggerEffectManager()
m_PlayerInsiderMap = new map<string, ref map<PlayerBase, int>>;
■static void DestroyInstance()
\blacksquare \blacksquare m_This = null;
■// This is a SINGLETON so, if we can't get the instance, we create it
■static TriggerEffectManager GetInstance()
■if (!m_This)
■■m_This = new TriggerEffectManager();
■■return m_This;
■void RegisterTriggerType( EffectTrigger effectTrigger )
```

■ if (!m_PlayerInsiderMap.Contains(effectTrigger.GetType()))

```
// ----- TriggerEvents.c - START ------
//! Events API for triggers, keep in sync with AreaDamageEvents for consistency
//! NOTE: The deltaTime passed in is the one for the Insider specifically.
class TriggerEvents : ScriptedEntity
/** \name OnEnter
■■Called when an object enters the trigger
I///@{
■protected void Enter(TriggerInsider insider)
■■#ifdef TRIGGER DEBUG BASIC
■■Debug.TriggerLog(GetDebugName(insider.GetObject()), "TriggerEvents", "", "Enter", GetDebugName(
#endif
■■OnEnterBeginEvent(insider);
■■if ( GetGame().lsServer() )
■■■OnEnterServerEvent(insider);
■else
■■■OnEnterClientEvent(insider);
■■OnEnterEndEvent(insider):
■protected void OnEnterBeginEvent(TriggerInsider insider) {}
mathral = protected void OnEnterServerEvent(TriggerInsider insider) {}
■ protected void OnEnterClientEvent(TriggerInsider insider) {}
protected void OnEnterEndEvent(TriggerInsider insider) {}
I///@}
■/** \name OnStayStart
■■Called at the beginning of an update loop
*/
I///@{
protected void StayStart(int nrOfInsiders)
■■#ifdef TRIGGER_DEBUG_SPAM
■■Debug.TriggerLog(nrOfInsiders.ToString(), "TriggerEvents", "", "StayStart", GetDebugName(this));
■#endif
■■OnStayStartBeginEvent(nrOfInsiders);
■■if ( GetGame().lsServer() )
■■■OnStayStartServerEvent(nrOfInsiders);
■■else
■■OnStayStartClientEvent(nrOfInsiders);
■■OnStayStartEndEvent(nrOfInsiders);
protected void OnStayStartBeginEvent(int nrOfInsiders) {}
protected void OnStayStartClientEvent(int nrOfInsiders) {}
■protected void OnStayStartEndEvent(int nrOfInsiders) {}
I///@}
■/** \name OnStay
■■Called in the update loop
*/
```

■///@ {

```
----- Tripod.c - START -----
class TripodBase: ItemBase
■override bool HasProxyParts()
■ return true;
■override bool CanDetachAttachment( EntityAl parent )
■FireplaceBase fireplace = FireplaceBase.Cast(parent);
■if(fireplace)
- [
■■■if (fireplace.GetCookingEquipment()!= null)
■■■return false;
■ return true;
■override bool CanSwapEntities(EntityAl otherItem, InventoryLocation otherDestination, InventoryLocation
■■if (GetHierarchyParent() && GetHierarchyParent().IsFireplace() && otherItem)
■■■if (otherItem.lsInherited(Pot) || otherItem.lsInherited(Cauldron))
■■■ return false;
■■return true;
■override void OnDebugSpawn()
■■HideAllSelections();
■■ShowSelection( "Deployed" );
■}
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionAttach);
■■AddAction(ActionDetach);
■override void OnWasAttached( EntityAl parent, int slot_id )
■■super.OnWasAttached(parent, slot_id);
■■if (parent.lsFireplace())
■■■HideAllSelections();
■■■ShowSelection( "Deployed" );
——}
```

■override void OnWasDetached(EntityAl parent_int slot_id)

```
// ----- TruckBattery.c - START -----
class TruckBattery : VehicleBattery {}
// ----- TruckBattery.c - END -----
// -----
// ----- Truck_01FrontLight.c - START ------
// -----
class Truck_01FrontLight extends CarLightBase
■void Truck_01FrontLight()
■■m_SegregatedBrightness = 4;
■■m_SegregatedRadius = 75;
■■m_SegregatedAngle = 90;
\blacksquarem_SegregatedColorRGB = Vector(0.90, 0.90, 0.68);
■■m_AggregatedBrightness = 8;
■■m_AggregatedRadius = 100;
■■m_AggregatedAngle = 120;
■■m_AggregatedColorRGB = Vector(0.90, 0.90, 0.68);
\blacksquareFadeIn(0.1);
■■SetFadeOutTime(0.05);
■■SegregateLight();
■}
// -----
// ----- Truck_01FrontLight.c - END ------//
// ----- Truck_01RearLight.c - START ------
// -----
class Truck_01RearLight extends CarRearLightBase
■void Truck_01RearLight()
■■// Brake light only
■■m_SegregatedBrakeBrightness = 5;
■■m_SegregatedBrakeRadius = 6;
■■m_SegregatedBrakeAngle = 160;
■■m_SegregatedBrakeColorRGB = Vector(0.75, 0.16, 0.05);
■■// Reverse light only
■■m_SegregatedBrightness = 2;
```

■■m SegregatedRadius – 10:

```
// ----- Truck_01_Base.c - START ------
class Truck_01_Base extends CarScript
■protected ref UniversalTemperatureSource m_UTSource;
■protected ref UniversalTemperatureSourceSettings m_UTSSettings;
■protected ref UniversalTemperatureSourceLambdaEngine m_UTŠLEngine;
■void Truck_01_Base()
■■//m_dmgContactCoef ■■= 0.018;
■■m_enginePtcPos ■■= "0 1.346 2.205";
■■m_EngineStartOK ■■= "Truck_01_engine_start_SoundSet";
■■m_EngineStartBattery■= "Truck_01_engine_failed_start_battery_SoundSet";
■■m_EngineStartPlug ■■= "Truck_01_engine_failed_start_sparkplugs_SoundSet";
■■m_EngineStartFuel ■■= "Truck_01_engine_failed_start_fuel_SoundSet";
■■m_EngineStopFuel ■■= "Truck_01_engine_stop_fuel_SoundSet";
■■m_CarDoorOpenSound ■■= "Truck_01_door_open_SoundSet";
■■m_CarDoorCloseSound ■= "Truck_01_door_close_SoundSet";
■■m_CarHornShortSoundName = "Truck_01_Horn_Short_SoundSet";
■■m_CarHornLongSoundName■= "Truck_01_Horn_SoundSet";
■■SetEnginePos("0 1.4 2.25");
■}
■override void EEInit()
■■super.EEInit();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■■m_UTSSettings ■■■■■ new UniversalTemperatureSourceSettings();
■■■m_UTSSettings.m_ManualUpdate ■= true;
■■m_UTSSettings.m_TemperatureMin■= 0;
■■■m_UTSSettings.m_TemperatureMax■= 30;
■■■m_UTSSettings.m_RangeFull■■= 0.5;
■■■m_UTSSettings.m_RangeMax■■= 2;
■■■m_UTSSettings.m_TemperatureCap■= 25;
■■■m_UTSLEngine■■■■■ new UniversalTemperatureSourceLambdaEngine();
TEMP_UTSource new Universal Temperature Source (this, m_UTSS ettings, m_UTSLEngine);
■}
■override void OnEngineStart()
■■super.OnEngineStart();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■m_UTSource.SetDefferedActive(true, 20.0);
| | |
|
■override void OnEngineStop()
```

■super OnEngineSton()·

```
class Truck_01_Cargo extends Truck_01_Chassis {};
■override int GetAnimInstance()
■■return VehicleAnimInstances.V3S;
■override int GetSeatAnimationType( int posldx )
■■switch( posldx )
Ecase 0:
■■■return DayZPlayerConstants.VEHICLESEAT_DRIVER;
■■■return DayZPlayerConstants.VEHICLESEAT_CODRIVER;
■return 0;
■}
■override bool CrewCanGetThrough(int posldx)
■■CarDoor carDoor;
■■switch( posldx )
Example case 0:
■■■Class.CastTo( carDoor, FindAttachmentBySlotName("V3SDriverDoors"));
■■■■if(carDoor)
■■■■if ( carDoor.GetAnimationPhase("DoorsSource") > 0.5 ) return true;
■■■else
■■■■return true;
----
■■■return false;
■■■break;
 I■■case 1:
■■■Class.CastTo( carDoor, FindAttachmentBySlotName("V3SCoDriverDoors") );
■■■■if(carDoor)
  ■■■if ( carDoor.GetAnimationPhase("DoorsSource") > 0.5 ) return true;
 ∎∎∎else
 I■■■return true;
■■■return false:
■■break;
--
■■return false;
■override float OnSound( CarSoundCtrl ctrl, float oldValue )
```

```
// ----- Truck_01_Chassis.c - START -----------------//
class Truck_01_Chassis extends Truck_01_Base {};
// ----- Truck_01_Chassis.c - END ------
// ----- Truck_01_Covered.c - START ------
// -----
class Truck_01_Covered extends Truck_01_Base {};
class Truck_01_Covered_Orange extends Truck_01_Covered
■override void OnDebugSpawn()
■■SpawnUniversalParts();
■■SpawnAdditionalItems();
■■FillUpCarFluids();
■■GetInventory().CreateInInventory("Truck_01_Wheel");
■■GetInventory().CreateInInventory("Truck_01_Wheel");
■■GetInventory().CreateInInventory("Truck_01_WheelDouble");
■■GetInventory().CreateInInventory("Truck_01_WheelDouble");
■■GetInventory().CreateInInventory("Truck_01_WheelDouble");
■■GetInventory().CreateInInventory("Truck_01_WheelDouble");
■■GetInventory().CreateInInventory("Truck_01_Door_1_1_Orange");
■■GetInventory().CreateInInventory("Truck_01_Door_2_1_Orange");
■■GetInventory().CreateInInventory("Truck_01_Hood_Orange");
■■//----IN CAR CARGO
GetInventory().CreateInInventory("Truck_01_Wheel");
GetInventory().CreateInInventory("Truck_01_Wheel");
GetInventory().CreateInInventory("Truck_01_WheelDouble");
GetInventory().CreateInInventory("Truck_01_WheelDouble");
}
class Truck_01_Covered_Blue extends Truck_01_Covered
■override void OnDebugSpawn()
■{
■■SpawnUniversalParts();
 ■■SpawnAdditionalItems();
■FillUpCarFluids():
■■GetInventory().CreateInInventory("Truck_01_Wheel");
 ■■GetInventory().CreateInInventory("Truck_01_Wheel");
■■GetInventory().CreateInInventory("Truck_01_WheelDouble");
■■GetInventory().CreateInInventory("Truck_01_WheelDouble");
■■GetInventory().CreateInInventory("Truck_01_WheelDouble");
■■GetInventory().CreateInInventory("Truck_01_WheelDouble");
```

```
// ----- Truck_02.c - START -----
class Truck_02 extends CarScript
■protected ref UniversalTemperatureSource m_UTSource;
■protected ref UniversalTemperatureSourceSettings m_UTSSettings;
■protected ref UniversalTemperatureSourceLambdaEngine m_UTŠLEngine;
■void Truck_02()
■■//m_dmgContactCoef = 0.018;
■m_enginePtcPos = "0 1.346 2.205";
■override void EEInit()
■■super.EEInit();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
 ■■■m_UTSSettings ■■■■■= new UniversalTemperatureSourceSettings();
■■■m_UTSSettings.m_ManualUpdate ■= true;
■■m_UTSSettings.m_TemperatureMin■= 0;
■■■m_UTSSettings.m_TemperatureMax■= 30;
■■■m_UTSSettings.m_RangeFull■■= 0.5;
■■■m_UTSSettings.m_RangeMax■■= 2;
■■■m_UTSSettings.m_TemperatureCap■= 25;
■■■m_UTSLEngine■■■■■ new UniversalTemperatureSourceLambdaEngine();
■■■m_UTSource ■■■■■■ new UniversalTemperatureSource(this, m_UTSSettings, m_UTSLEngine);
---}
■override void OnEngineStart()
■■super.OnEngineStart();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■■m_UTSource.SetDefferedActive(true, 20.0);
| | |
|
■override void OnEngineStop()
■■super.OnEngineStop();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■■m_UTSource.SetDefferedActive(false, 10.0);
}
■}
■override void EOnPostSimulate(IEntity other, float timeSlice)
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■■if (m_UTSource.IsActive())
```

■■■m LITSource Undate(m LITSSettings m LITSL Engine):

```
// ----- Trumpet.c - START ------
class Trumpet: Rifle_Base
};
// ----- Trumpet.c - END ------
// -----
// ----- TShirt_ColorBase.c - START ------
class TShirt_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
■}
};
class TShirt_Beige extends TShirt_ColorBase {};
class TShirt_Black extends TShirt_ColorBase {};
class TShirt_Blue extends TShirt_ColorBase {};
class TShirt_Dyed extends TShirt_ColorBase {};
class TShirt_Green extends TShirt_ColorBase {};
class TShirt_OrangeWhiteStripes extends TShirt_ColorBase {};
class TShirt_Red extends TShirt_ColorBase {};
class TShirt_RedBlackStripes extends TShirt_ColorBase {};
class TShirt_White extends TShirt_ColorBase {};
class TShirt_Grey extends TShirt_ColorBase {};
// ----- TShirt_ColorBase.c - END -----
// -----
// ----- TShirt_Dyed.c - START -----
// -----
class TShirt_Dyed : Clothing
■void TShirt_Dyed()
■■string color = GetItemVariableString("varColor"); //SYNCFAIL
■ if ( color != "" )
■■■SetObjectTexture (0,color);
■■■SetObjectTexture (1,color);
■■SetObjectTexture (2,color);
```

```
// ----- TShirt_White.c - START ------
class TShirt_White : Clothing
■void TShirt_White()
■■string color = GetItemVariableString("varColor"); //SYNCFAIL
■ if ( color != "" )
■■■SetObjectTexture (0,color);
■■SetObjectTexture (1,color);
■■SetObjectTexture (2,color);
——}
■}
■override bool IsClothing()
■ return true;
// ----- TShirt_White.c - END ------
// -----
// ----- TTSKOBoots.c - START ------//
class TTSKOBoots extends Clothing {};
// ----- TTSKOBoots.c - END ------//
// ----- TTsKOJacket_ColorBase.c - START -----
class TTsKOJacket_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
■}
class TTsKOJacket_Camo extends TTsKOJacket_ColorBase {};
```

// ----- TTsKO lacket ColorBase c - FND -----

```
// ----- TTSKOPants.c - START -----
class TTSKOPants extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- TTSKOPants.c - END -----
// ----- TunaCan.c - START ------//
class TunaCan: Edible_Base
■override void Open()
■ Replace Edible With New ("Tuna Can_Opened");
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionOpen);
■override bool IsOpen()
■ireturn false;
// ----- TunaCan.c - END ------
// ----- TunaCan_Opened.c - START -----
class TunaCan_Opened: Edible_Base
■override bool CanDecay()
■return true:
```

```
// ----- TutorialsMenu.c - START ------
class TutorialsMenu extends UIScriptedMenu
■protected const string PATH_MOUSEKEY = "Scripts/data/PageDataTutorials.json";
■protected const string PATH_X1_OLD = "Xbox/PageDataTutorials.json";
■protected const string PATH_X1_NEW = "Xbox/PageDataTutorialsAlternate.json";
■protected const string PATH_PS_OLD = "PS4/PageDataTutorials.json";
■protected const string PATH_PS_NEW = "PS4/PageDataTutorialsAlternate.json";
■protected string ■■■■■m_BackButtonTextID;
■protected Widget■■■■m_InfoTextLeft;
■protected Widget■■■■m_InfoTextRight;
■protected ButtonWidget■■■m_Back;
■protected ImageWidget ■■■■m_ControlsLayoutImage;
■ protected const int ■■■■TABS_COUNT = 4;
■protected ImageWidget ■■■■m_tab_images[TABS_COUNT];
■protected TabberUI■■■■m_TabScript;
■protected ref TutorialKeybinds■■m_KeybindsTab;
■// Init
■override Widget Init()
■#ifdef PLATFORM_CONSOLE
■■layoutRoot■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/tutorials/xbox/tutorials.I
■■layoutRoot■= GetGame().GetWorkspace().CreateWidgets("gui/layouts/new_ui/tutorials/pc/tutorials.lay
■■m_InfoTextLeft■= layoutRoot.FindAnyWidget("InfoTextLeft");
■■m_InfoTextRight■= layoutRoot.FindAnyWidget("InfoTextRight");
■■m_Back■■■= ButtonWidget.Cast(layoutRoot.FindAnyWidget("back"));
■■layoutRoot.FindAnyWidget("Tabber").GetScript(m_TabScript);
■■m_TabScript.m_OnTabSwitch.Insert(DrawConnectingLines);
■#ifdef PLATFORM CONSOLE
■■if (GetGame().GetInput().IsEnabledMouseAndKeyboard())
■■m_KeybindsTab = new TutorialKeybinds(layoutRoot.FindAnyWidget("Tab_6"), this);
■■m_TabScript.EnableTabControl(6, true);
■■}
■#endif
■■m_tab_images[0] = ImageWidget.Cast(layoutRoot.FindAnyWidget("MovementTabBackdropImageWidget")
■■m_tab_images[1] = ImageWidget.Cast(layoutRoot.FindAnyWidget("WeaponsAndActionsBackdropImageWidget")
■■m_tab_images[2] = ImageWidget.Cast(layoutRoot.FindAnyWidget("InventoryTabBackdropImageWidget)
■■m_tab_images[3] = ImageWidget.Cast(layoutRoot.FindAnyWidget("MenusTabBackdropImageWidget")
■■UpdateControlsElements();
■■UpdateControlsElementVisibility();
■■PPERequesterBank.GetRequester(PPERequester_TutorialMenu).Start(new Param1<float>(0.6));
```

■■DrawConnectingLines(0);

```
// ----- UAInput.c - START -----
/** @file */
// constants for device (binding device) type determine:
//■EUAINPUT_DEVICE_KEYBOARD
//■EUAINPUT_DEVICE_MOUSE
//■EUAINPUT_DEVICE_KEYBOARDMOUSE
//■EUAINPUT_DEVICE_CONTROLLER
//EEUAINPUT_DEVICE_IR
// -----
class UAIDWrapper
■private void UAIDWrapper() {}
■private void ~UAIDWrapper() {}
■proto native UAInput InputP();
■■■// get input pointer
class UAInput
■proto native int ID();
■■// return input index
■proto native int NameHash(); ■// return input hash
■proto native int BindingCount();
// return binding count
■proto native int Binding(int ilndex);
| | return binding at index
■proto native void ClearBinding();
// remove all bindings
■proto native void BindCombo( string sButtonName );
|■■// bind combo to this input by name (single/ or approto native void BindCombo( string sButtonName );
■proto native void BindComboByHash(int iHash);■■■// bind combo to this input by hash (single/ or appe
■proto native void AddAlternative();
■■■■■// add new alternative keybind
■proto native void ClearAlternative(int iIndex);■■// clear binding alternative by index ■proto native void SelectAlternative(int iIndex);■■// select binding alternative by index
■proto native int AlternativeCount();
■proto native int AlternativeIndex();■■■■ // get currently selected alternative index
■proto native void ClearDeviceBind( int iDeviceFlags ); ■// clear binding for specific device(s)
■proto native int BindKeyCount(); // binded key count (for selected alternative)
■proto native int GetBindKey(int ilndex); // binded "control" at index (for selected alternative)
■proto native int GetBindDevice(int iIndex); // binded "control" device type at index (for selected alternative
■proto native bool CheckBindDevice(int iIndex, int iDeviceFlags); // compare binded device "control" type
■proto native float LocalValue();
■proto native bool LocalPress();
■proto native bool LocalRelease();
■proto native bool LocalHold();
■proto native bool LocalHoldBegin();
■proto native bool LocalDoubleČlick();
■proto native bool LocalClick();
```

■proto native bool IsCombo();
// return true if there is currently combo bind - use Binding() result !!!

```
■Ui class for hints in in-game-menu
class UiHintPanel extends ScriptedWidgetEventHandler
■// Const
■ private const int ■■■■m_SlideShowDelay = 25000; ■■■■■■■■■■■// The speed of the slideshow
■private const string ■■■m_RootPath■■= "Gui/layouts/new_ui/hints/in_game_hints.layout";■■// Layou
■ private const string ■ ■ ■ DataPath ■ = "Scripts/data/hints.json"; ■ ■ ■ Json path
■// Widgets
■ private Widget ■■■■■ RootFrame:
■private Widget ■■■■m_SpacerFrame;
■private ButtonWidget ■■■m_UiLeftButton;
■private ButtonWidget ■■■m_UiRightButton;
■private RichTextWidget■■m_UiDescLabel;
■private TextWidget■■■m_UiHeadlineLabel;
■private ImageWidget ■■■m_UiHintImage;
■private TextWidget ■■■■m_UiPageingLabel;
■// Data
■private ref array<ref HintPage>■m_ContentList;
■ private int ■■■■■ PageIndex;
■// Constructor
■void UiHintPanel(Widget parent_widget)
■■// Load Json File
■■LoadContentList();
■■// If load successful
■■if (m_ContentList)■
■■■// Build the layout
■■■BuildLayout(parent_widget);
■■■// Get random page index
■■■RandomizePageIndex();
■■■// Populate the layout with data
■■■PopulateLayout();
■■■// Start the slideshow
■■■StartSlideshow();■■■
——}
■■else
■■■Print("ERROR: UiHintPanel - Could not create the hint panel. The data are missing!");
■// Destructor
■void ~UiHintPanel()
■■StopSlideShow();
■// Load content data from json file
■private void LoadContentList()
```

IsonFileLoader-array-ref HintPage>> IsonLoadFile(m. DataPath, m. ContentList):

!

```
// ----- UIManager.c - START -----
class UIManager
■//! Create & open menu with specific id (see \ref MenuID) and set its parent
■proto native UIScriptedMenu EnterScriptedMenu(int id, UIMenuPanel parent);
■proto native void EnterServerBrowser(UIMenuPanel parentMenu);
■proto native UIScriptedMenu ShowScriptedMenu(UIScriptedMenu menu, UIMenuPanel parent);
■proto native void HideScriptedMenu(UIScriptedMenu menu);
■proto native Widget GetWidgetUnderCursor();
■proto native bool IsDialogVisible();
■proto native bool IsModalVisible();
■proto native void CloseSpecificDialog(int id);
■proto native void CloseDialog();
■proto native void HideDialog();
■UIScriptedMenu CreateScriptedMenu(int id, UIMenuPanel parent)
■■UIScriptedMenu menu = EnterScriptedMenu(id, parent);
■■HideScriptedMenu( menu );
■return menu;
■}
/**
 \brief Shows message dialog
■@param caption
■@param text
■@param id custom user id
■@param butts \ref DialogBoxType
■@param def \ref DialogBoxButton
■@param type \ref DialogMessageType
■@param handler
■\n usage:
■@code
■const int QUIT_DIALOG_ID = 76;
■GetGame().GetUIManager().ShowDialog("Quit", "Do You really want to quit?", QUIT_DIALOG_ID, DBT_
■// after user pass dialog, callback on menu/event handler is called
■ScriptedWidgetEventHandler::OnModalResult(Widget w,■int x,■int y,■int code,■int result■)
■■if (code == QUIT_DIALOG_ID && result == DBB_YES) // yes this is callback for dialog we show earlier
■■■Quit();
--
■@endcode
■proto native void ShowDialog(string caption, string text, int id, int butts /*DBT_*/, int def/*DBB_*/, int type
■proto native bool ShowCursor(bool visible);
■proto native bool IsCursorVisible();
■proto native bool IsDialogQueued();
■proto native bool ShowQueuedDialog();
■proto native int GetLoginQueuePosition();
■proto native bool ScreenFadeVisible();
■proto native void ScreenFadeIn(float duration, string text, int backgroundColor, int textColor);
■proto native void ScreenFadeOut(float duration);
■proto native bool IsScaledMode();
```

■nroto native void SetScaledMode(hool enabled)

```
----- UIPopupScript.c - START ------
class UIPopupScript
■// UIPopupScript
■void UIPopupScript(Widget wgt)
■m_WgtRoot = wgt;
■void OnOpen(Param param)
■void OnClose()
■void Show(bool show)
■■m_WgtRoot.Show(show);
■bool OnClick(Widget w, int x, int y, int button)
■return false;
■bool OnChange(Widget w, int x, int y, bool finished)
■return false;
|}
■// PopupBack
■protected UIPopupScript PopupBack()
■■SceneEditorMenu menu = SceneEditorMenu.Cast( GetGame().GetUlManager().GetMenu() );
■■return menu.PopupBack();
 // PopupOpen
■protected UIPopupScript PopupOpen(int popup_id, Param param)
■■SceneEditorMenu menu = SceneEditorMenu.Cast( GetGame().GetUlManager().GetMenu() );
■■return menu.PopupOpen(popup_id, param);
■}
■// GetSceneEditor
■protected PluginSceneManager GetSceneEditor()
■■PluginSceneManager m = PluginSceneManager.Cast( GetPlugin(PluginSceneManager) );
```

```
------ UIPopupScriptConfigs.c - START ------
class UIPopupScriptConfigs extends UIPopupScript
■private ButtonWidget m_BtnOk;
■private ButtonWidget m_BtnCancel;
■private ButtonWidget m_BtnCopyToClipboard;
■private TextListboxWidget m_ConfigHierarchyTextListbox;
■private TextListboxWidget m_ConfigVariablesTextListbox;
■private PluginConfigViewer m_ModuleConfigViewer;
■private EditBoxWidget m_ObjectConfigFilter;
■void UIPopupScriptConfigs( Widget wgt )
■m_BtnOk■■= ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_pc_ok") );
■■m_ConfigHierarchyTextListbox = TextListboxWidget.Cast( wgt.FindAnyWidget("ConfigHierarchy") );
■■m_ConfigVariablesTextListbox = TextListboxWidget.Cast(`wgt.FindAnyWidget("ConfigVariables")´);
■■m_BtnCopyToClipboard = ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_pc_copy") );
■■m_ObjectConfigFilter = EditBoxWidget.Cast( wgt.FindAnyWidget("ObjectConfigFilter") );
■void ChangeConfigFilter()
■■if ( m_ObjectConfigFilter.GetText() == "" )
■■■ClearHierarchy();
==}
else
■■■FindInHierarchy( m_ObjectConfigFilter.GetText() );
|}
■override void OnOpen(Param param)
■■m_ModuleConfigViewer■= PluginConfigViewer.Cast( GetPlugin( PluginConfigViewer ) );
■■ClearHierarchy();
■void AddItemToClipboard( TextListboxWidget text_listbox_widget )
■■int selected_row_index = text_listbox_widget.GetSelectedRow();
■■if ( selected_row_index != -1 )
\
String item name:
■■■text_listbox_widget.GetItemText( selected_row_index, 0, item_name );
■■■GetGame().CopyToClipboard(item_name);
■}
■void RenderVariables( int row )
■■ConfigParams config_params;
■■if( row > -1 && row < m_ConfigHierarchyTextListbox.GetNumItems() )
■■■m_ConfigHierarchyTextListbox.GetItemData( row, 0, config_params );
```

■■■m ConfigVariablesTextListhox ClearItems():

```
----- UIPopupScriptEditorSettings.c - START ------
class UIPopupScriptEditorSettings extends UIPopupScript
■private CheckBoxWidget■■m_WgtTglSeleHighlight;
■private CheckBoxWidget■m_WgtTglSavePlayerPos;
■private EditBoxWidget■■m_EdxRotationDelta;
■private ButtonWidget■■m_BtnCancel;
■private PluginSceneManager■m_ModuleSceneManager;
// UIPopupScriptEditorSettings
■void UIPopupScriptEditorSettings(Widget wgt)
■■m_ModuleSceneManager = PluginSceneManager.Cast( GetPlugin(PluginSceneManager) );
■■m_WgtTglSeleHighlight■= CheckBoxWidget.Cast( wgt.FindAnyWidget("cbx_ppp_est_flag_selection")
■■m_WgtTglSavePlayerPos■= CheckBoxWidget.Cast( wgt.FindAnyWidget("cbx_ppp_est_flag_load_play
■■m_EdxRotationDelta■■= EditBoxWidget.Cast( wgt.FindAnyWidget("ebx_ppp_est_rotation_delta_value
■■m BtnCancel■■■■ ButtonWidget.Cast(wgt.FindAnyWidget("btn ppp est cancel"));
■// OnOpen
■override void OnOpen(Param param)
■■m_WgtTglSeleHighlight.SetChecked( m_ModuleSceneManager.GetDrawSelection() );
■■m_WgtTglSavePlayerPos.SetChecked( m_ModuleSceneManager.GetLoadPlayerPos() );
■■m_EdxRotationDelta.SetText( m_ModuleSceneManager.GetRotationAngle().ToString() );
■}
// OnClick
■override bool OnClick(Widget w, int x, int y, int button)
\blacksquaresuper.OnClick(w, x, y, button);
■■if ( w == m_WgtTglSeleHighlight )
■■■m_ModuleSceneManager.SetDrawSelection(m_WgtTglSeleHighlight.IsChecked());
■■else if ( w == m_WgtTglSavePlayerPos )
■■■m_ModuleSceneManager.SetLoadPlayerPos(m_WgtTglSavePlayerPos.IsChecked());
■■else if ( w == m_BtnCancel )
■■■PopupBack();
■■■return true;
==}
```

■ return false:

```
----- UIPopupScriptInitScript.c - START -----
class UIPopupScriptInitScript extends UIPopupScript
■private MultilineEditBoxWidget■m_MedxInitScript;
■private ButtonWidget■■m_BtnRun;
■private ButtonWidget■■■ BtnSave;
■private ButtonWidget■■■m_BtnCancel;
■private int■■■■■■m_SceneObjectIndex;
■private SceneObject■■■m_SceneObject;
■private PluginSceneManager■■m_ModuleSceneManager;
■// UIPopupScriptInitScript
■void UIPopupScriptInitScript(Widget wgt)
■■m_ModuleSceneManager = PluginSceneManager.Cast( GetPlugin(PluginSceneManager) );
■■m_MedxInitScript■= MultilineEditBoxWidget.Cast( wgt.FindAnyWidget("pnl_ppp_is_init_script_value")
■■m_BtnRun■■■= ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_is_run") );
■■m BtnSave■■= ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_is_save") );
■■m_BtnCancel■■■= ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_is_cancel") );
|
■// OnOpen
■override void OnOpen(Param param)
■ MedxInitScript.SetText(""):
■■if ( param != NULL )
■■■Param2<int, SceneObject> param_scene_object = Param2<int, SceneObject>.Cast( param );
■■int index = param_scene_object.param1;
■■SceneObject scene_object = param_scene_object.param2;
■■■if (index > -1 && scene_object != NULL)
■■■■m_SceneObjectIndex = index;
■■■m_SceneObject = scene_object;
■■■■m_MedxInitScript.SetText( m_SceneObject.GetInitScript() );
——}
■// OnClick
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
\blacksquare if ( w == m_BtnRun )
```

```
// ----- UIPopupScriptNotify.c - START -----
class UIPopupScriptNotify extends UIPopupScript
■private ButtonWidget■m_BtnOk;
■private TextWidget■■m_TxtLabel;
■// UIPopupScriptNotify
■void UIPopupScriptNotify(Widget wgt)
■ BtnOk = ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_notify_ok") );
■■m_TxtLabel■= TextWidget.Cast( wgt.FindAnyWidget("txt_ppp_notify_label") );
■// OnClick
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
\blacksquare if ( w == m_BtnOk )
•
■■PopupBack();
■■return true;
——}
■ return false:
■// OnClick
■void SetLabelText(string text)
■■m_TxtLabel.SetText(text);
■}
// -----
// ----- UIPopupScriptNotify.c - END -----
// ----- UIPopupScriptPositionManager.c - START ------
class UIPopupScriptPositionManager extends UIPopupScript
■private TextListboxWidget■m LstPositionList;
■private EditBoxWidget m_TxtSelectedX;
■private EditBoxWidget m_TxtSelectedY;
```

■nrivate EditRoxWidget m TxtCurrentX・

```
// ----- UIPopupScriptPresetNew.c - START ------
class UIPopupScriptPresetNew extends UIPopupScript
■private ButtonWidget m_BtnOk;
■private ButtonWidget m_BtnCancel;
■// UIPopupScriptSceneNew
■void UIPopupScriptPresetNew( Widget wgt )
■ BtnOk = ButtonWidget.Cast(wgt.FindAnyWidget("btn_ppp_pn_ok"));
■■m_BtnCancel■= ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_pn_cancel") );
■// OnClick
■override bool OnClick( Widget w, int x, int y, int button )
■■super.OnClick( w, x, y, button );
\blacksquare if ( w == m_BtnOk )
•
EditBoxWidget wgt_text = EditBoxWidget.Cast( m_WgtRoot.FindAnyWidget("fld_ppp_pn_new_name
■■■PluginConfigDebugProfile m_ConfigDebugProfile = PluginConfigDebugProfile.Cast( GetPlugin(Plugin
■■m_ConfigDebugProfile.PresetAdd( wgt_text.GetText() );
■■■SceneEditorMenu menu = SceneEditorMenu.Cast( GetGame().GetUlManager().GetMenu() );
■■menu.RefreshLists();
■■■PopupBack();
■■return true;
■■else if ( w == m_BtnCancel )
■■■PopupBack();
■■return true;
| | |
■■return false;
// ----- UIPopupScriptPresetNew.c - END ------
// ----- UIPopupScriptPresetRename.c - START -------
```

class UIPopupScriptPresetRename extends UIPopupScript

```
// ----- UIPopupScriptSceneDelete.c - START ------
class UIPopupScriptSceneDelete extends UIPopupScript
■private ButtonWidget ■m_BtnYes;
■private ButtonWidget ■m_BtnNo;
private string ■■ m_DeleteScene;
■// UIPopupScriptSceneDelete
■void UIPopupScriptSceneDelete(Widget wgt)
■ ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_sn_dlt_yes"));
■■m_BtnNo■■= ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_sn_dlt_no") );
■// OnClick
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
\blacksquare if ( w == m_BtnYes )
■■■PluginSceneManager editor = PluginSceneManager.Cast( GetPlugin(PluginSceneManager) );
■■■editor.SceneDelete(m_DeleteScene);
■■■PopupBack();
■■return true;
——}
■■else if ( w == m_BtnNo )
■■m DeleteScene = STRING EMPTY:
■■■PopupBack();
■■return true:
——}
■■return false;
■void SetDeleteName(string scene_name)
■m_DeleteScene = scene_name;
// ----- UIPopupScriptSceneDelete.c - END ------
```

```
// ----- UIPopupScriptSceneManager.c - START ------
class UIPopupScriptSceneManager extends UIPopupScript
■private ButtonWidget ■■m_BtnCancel;
■private ButtonWidget ■■m_BtnSceneNew;
■private ButtonWidget ■■m_BtnSceneLoad;
■private ButtonWidget ■■m_BtnSceneRename;
■private ButtonWidget ■■m_BtnSceneDuplicate;
■private ButtonWidget ■■m_BtnSceneDelete;
■private TextListboxWidget■m_LstListScenes;
■private ButtonWidget■m_BtnSave;
■private TextWidget■■m_TxtWeatherTime;
■private SliderWidget ■m SldStartTime;
■private TextWidget■■m_TxtStartTimeValue;
■private SliderWidget ■m_SldStartDay;
■private TextWidget■■m_TxtStartDayValue;
■private SliderWidget■m_SldOvercast;
■private TextWidget■■m_TxtOvercastValue;
■private SliderWidget■m_SldRain;
■private TextWidget■■m TxtRainValue;
■private SliderWidget■m_SldFog;
■private TextWidget■m_TxtFogValue;
■private SliderWidget■m_SldWindForce;
■private TextWidget■■m_TxtWindForceValue;
■private int■■■m_OrigYear;
■private int■■■m_OrigMonth;
■private int■■■m_OrigDay;
■private int■■■■ OrigHour:
■private int■■■■m_OrigMinute;
■ private float ■ ■ m OrigOvercast;
■private float■■m_OrigRain;
■private float■■m_OrigFog;
■private float■■m_OrigWindForce;
■private int■■■m_CurrYear;
■private int■■■■m_CurrMonth;
■private int■■■■m_CurrDay;
■private int■■■■m_CurrHour;
■private int■■■m_CurrMinute;
■private float■■■m_CurrOvercast;
■private float■■■ CurrRain;
■private float■■m_CurrFog;
■private float■■■ CurrWindForce:
■// UIPopupScriptSceneManager
■void UIPopupScriptSceneManager(Widget wgt)
■ ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_sm_cancel") );
■■m_BtnSceneNew■■= ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_sm_mission_new") );
■■m BtnSceneLoad■■= ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_sm_mission_load"));
```

■■m RtnSceneRename■- RuttonWidget Cast(wat FindAnyWidget("htn. nnn. sm. mission, rename")):

```
// ----- UIPopupScriptSceneNew.c - START ------
class UIPopupScriptSceneNew extends UIPopupScript
■private ButtonWidget m_BtnOk;
■private ButtonWidget m_BtnCancel;
I//-----
■// UIPopupScriptSceneNew
■void UIPopupScriptSceneNew(Widget wgt)
■ BtnOk = ButtonWidget.Cast(wgt.FindAnyWidget("btn_ppp_sn_ok"));
■■m_BtnCancel■= ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_sn_cancel") );
I//-----
■// OnClick
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
\blacksquare if ( w == m_BtnOk )
■■■EditBoxWidget wgt_text = EditBoxWidget.Cast( m_WgtRoot.FindAnyWidget("fld_ppp_sn_new_name
■■■PluginSceneManager editor = PluginSceneManager.Cast( GetPlugin(PluginSceneManager) );
■■■Log("OnClick -> SceneLoad");
■■■editor.SceneLoad(wgt_text.GetText());
■■■editor.SceneSave();
■■■PopupBack();
■■return true:
■■else if ( w == m_BtnCancel )
■■PopupBack();
■■return true;
| | |
■■return false;
// ----- UIPopupScriptSceneNew.c - END ------
```

```
// ----- UIPopupScriptSceneRename.c - START ------
class UIPopupScriptSceneRename extends UIPopupScript
■private ButtonWidget■m_BtnOk;
■private ButtonWidget■m_BtnCancel;
private string ■■ m_RenameName;
■// UIPopupScriptSceneRename
1//-----
■void UIPopupScriptSceneRename(Widget wgt)
■ BtnOk 
■■m_BtnCancel■■= ButtonWidget.Cast(wgt.FindAnyWidget("btn_ppp_sn_rnm_cancel"));
■// OnClick
■override bool OnClick(Widget w, int x, int y, int button)
■■super.OnClick(w, x, y, button);
 ■■if ( w == m_BtnOk )
■■■EditBoxWidget wgt_text = EditBoxWidget.Cast( m_WgtRoot.FindAnyWidget("fld_ppp_sn_rnm_new_i
■■■PluginSceneManager editor = PluginSceneManager.Cast( GetPlugin(PluginSceneManager) );
■■■editor.SceneRename(m_RenameName, wgt_text.GetText());
■■■m_RenameName = STRING_EMPTY;
■■■PopupBack();
■■return true;
| | |
■■else if ( w == m_BtnCancel )
■■PopupBack();
■■return true;
}
■■return false;
■// SetRenameName
■void SetRenameName(string rename_name)
m_RenameName = rename_name;
```

// ----- IIIPonunScriptSceneRename c - FND ------

```
//
// ----- UIPopupScriptSceneSettings.c - START ------------
class UIPopupScriptSceneSettings extends UIPopupScript
■private ButtonWidget■m_BtnSave;
■private ButtonWidget■m_BtnCancel;
■private TextWidget■■m_TxtWeatherTime;
■private SliderWidget ■m_SldStartTime;
■private TextWidget■■m_TxtStartTimeValue;
■private SliderWidget ■m_SldStartDay;
■private TextWidget■■m_TxtStartDayValue;
■private SliderWidget■m_SldOvercast;
■private TextWidget■■m_TxtOvercastValue;
■private SliderWidget■m_SldRain;
■private TextWidget■■m_TxtRainValue;
■private SliderWidget■m_SldFog;
■private TextWidget■■m_TxtFogValue;
■private SliderWidget■m_SldWindForce;
■private TextWidget■■m_TxtWindForceValue;
■private int■■■m_OrigYear;
■private int■■■■ OrigMonth;
■private int■■■m_OrigDay;
■private int■■■m_OrigHour;
■private int■■■■m_OrigMinute;
■ private float ■ ■ m OrigOvercast;
■private float■■m_OrigRain;
■private float■■m_OrigFog;
■private float■■m_OrigWindForce;
■private int■■■m_CurrYear;
■private int■■■■m_CurrMonth;
■ private int■■■■ CurrDay:
■private int■■■■m_CurrHour;
■private int■■■■m_CurrMinute;
■private float■■■m_CurrOvercast;
■private float■■■ CurrRain;
■private float■■m_CurrFog;
■private float■■■ CurrWindForce:
■// UIPopupScriptSceneSettings
■void UIPopupScriptSceneSettings(Widget wgt)
■{
■■m_BtnSave■■■= ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_st_save") );
■■m_BtnCancel■■= ButtonWidget.Cast( wgt.FindAnyWidget("btn_ppp_st_cancel") );
■■m_TxtWeatherTime■= TextWidget.Cast( wgt.FindAnyWidget("txt_ppp_st_w_time_value") );
■■m_SldStartTime■■= SliderWidget.Cast( wgt.FindAnyWidget("sld_ppp_st_start_time") );
■■m TxtStartTimeValue■= TextWidget.Cast(wgt.FindAnyWidget("txt_ppp_st_start_time_value"));
■■m_SldStartDay■■= SliderWidget.Cast( wgt.FindAnyWidget("sld_ppp_st_start_day") );
```

■■m_TxtStartDayValue■= TextWidget.Cast(wgt.FindAnyWidget("txt_ppp_st_start_day_value"));

```
// ----- UIPropertyAttachment.c - START ------
class UIPropertyAttachment
■private Widget■■m_WgtRoot;
■private Widget■■m_WgtThis;
■private XComboBoxWidget■m_WgtComboBox;
private TextWidget■m_WgtSlotName;
■private ref TStringArray m_Comboltems;
■private int■■■m_PrevIndex;
■private EntityAl■■m_Obj;
■private int■■■m_SlotID;
■void UIPropertyAttachment(Widget root)
■■m_WgtRoot■■= root;
■■m_Comboltems = new TStringArray;
 ■■m_WgtThis = GetGame().GetWorkspace().CreateWidgets("gui/layouts/scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_z_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/day_scene_editor/
■■m_WgtComboBox■= XComboBoxWidget.Cast( m_WgtThis.FindAnyWidget("combo_box") );
■■m_WgtSlotName■= TextWidget.Cast( m_WgtThis.FindAnyWidget("txt_slot_name") );
■void ~UIPropertyAttachment()
■■m_WgtRoot■■= NULL;
■■m_WgtComboBox■= NULL;
■■delete m_WgtThis;
■bool OnClick(Widget w, int x, int y, int button)
\blacksquare if ( w == m_WgtComboBox )
■■■if ( m_PrevIndex != 0 )
EntityAl attachment = m_Obj.GetInventory().FindAttachment(m_SlotID);
■■■GetGame().ObjectDelete(attachment);
}
 ■■■int curr_index = m_WgtComboBox.GetCurrentItem();
 ■■■if ( curr_index != 0 )
  ■■■PluginDeveloper ■module_dev = PluginDeveloper.Cast( GetPlugin(PluginDeveloper) );
■■■■EntityAl e = module_dev.SpawnEntityAsAttachment(PluginSceneManager.PLAYER, m_Obj, m_Co
■■■m_PrevIndex = curr_index;
 ■■■return true;
■■return false;
```

•}

```
// ----- UIScriptedMenu.c - START ------
class UIMenuPanel: Managed
■proto native UIMenuPanel GetSubMenu();
■proto native UIMenuPanel GetParentMenu();
■proto native UIMenuPanel GetVisibleMenu();
■proto native void SetSubMenu(UIMenuPanel submenu);
■proto native void SetParentMenu(UIMenuPanel parent);
■proto native bool CanClose();
■proto native bool CanCloseOnEscape();
■//! Create & open menu with specific id (see \ref MenuID) and set this menu as its parent
■proto native UIScriptedMenu EnterScriptedMenu(int id);
■proto native void DestroySubmenu();
proto native bool IsAnyMenuVisible();
■proto native bool IsVisible();
■//! If visibility of application is changed. On console it is called when application is suspended or constrain
■//! @param is Visible indicate if application is visible in foreground
■void OnVisibilityChanged(bool isVisible)
■//! Safe way to close window, using this function can even window safely close itself
■proto native void Close();
■bool UseMouse()■{
■#ifdef PLATFÖRM CONSOLE
■■return GetGame().GetInput().IsEnabledMouseAndKeyboardEvenOnServer();
#else
■ return true;
■#endif
|
■bool UseKeyboard()■{
■■#ifdef PLATFORM_CONSOLE
■■return GetGame().GetInput().IsEnabledMouseAndKeyboardEvenOnServer();
■#else
■ return true:
■#endif
■bool UseGamepad()■{
■ return true;
■}
■//! Returns \ref MenulD
■int GetID()■{
■■return MENU_UNKNOWN;
■}
■//! Refresh request, called from anywhere
■void Refresh()
•{
};
```

```
----- UIScriptedWindow.c - START ------
class UIScriptedWindow
■Widget■m_WgtRoot;
■int m_ld;
■//---MOVE TO UIMANAGER WHEN FIXED
■static ref map<int, UIScriptedWindow> m_ActiveWindows;
■static void AddToActiveWindows(int id, UIScriptedWindow window)
■■if ( m_ActiveWindows == NULL )
__ActiveWindows = new map<int, UIScriptedWindow>;
■■m_ActiveWindows.Insert( id, window );
■}
■static void RemoveFromActiveWindows( int id )
■■if ( m_ActiveWindows )
■■m_ActiveWindows.Remove(id);■
| | |
■}
■static UIScriptedWindow GetWindow(int id)
■■if ( m_ActiveWindows )
■■■return m_ActiveWindows.Get( id );
■return NULL;
■static map<int, UIScriptedWindow> GetActiveWindows()
■ return m_ActiveWindows;
I//---
■void UIScriptedWindow(int id)
\blacksquare \blacksquare m_ld = id;
■}
■void ~UIScriptedWindow()
■■GetWidgetRoot().Show(false);
■■delete ĞetWidgetRoot();
■Widget GetWidgetRoot()
■■return m_WgtRoot;
```

```
// ----- UKAssVest_ColorBase.c - START ------
class UKAssVest_ColorBase extends Clothing {};
class UKAssVest_Black extends UKAssVest_ColorBase {};
class UKAssVest_Camo extends UKAssVest_ColorBase {};
class UKAssVest_Khaki extends UKAssVest_ColorBase {};
class UKAssVest_Olive extends UKAssVest_ColorBase {};
// -----
// ----- UKAssVest_ColorBase.c - END ------//
// -----
// ----- UMP45.c - START ------
// -----
class UMP45_Base : RifleBoltLock_Base
■void UMP_Base()
■override RecoilBase SpawnRecoilObject()
■■return new Ump45Recoil(this);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■GameInventory inventory = GetInventory();

    inventory ("PistolSuppressor");
    inventory.CreateInInventory( "ReflexOptic");
    inventory.CreateInInventory( "UniversalLight");
    inventory.CreateInInventory( "Battery9V");
    inventory.CreateInInventory( "Battery9V");

■■SpawnAttachedMagazine("Mag_UMP_25Rnd");
■}
};
// -----
// ----- UMP45.c - END ------
// -----
// ----- Ump45Recoil.c - START -----
class Ump45Recoil: RecoilBase
■override void Init()
```

■ vector point 1:

```
----- Unconsciousness.c - START -----
class UnconsciousnessMdfr: ModifierBase
■const int UNCONSIOUSS_COOLDOWN_TIME = 60;//in s
■override void Init()
■ TrackActivatedTime = false;
■■m_ID ■■■■= eModifiers.MDF_UNCONSCIOUSNESS;
\blacksquarem_TickIntervalInactive \blacksquare= 0.5;
■■m_TickIntervalActive ■= 0.5;
■override bool ActivateCondition(PlayerBase player)
■■if( player.GetHealth("","Shock") <= PlayerConstants.UNCONSCIOUS_THRESHOLD )
■■return true:
■■}
■eturn false;
■override void OnActivate(PlayerBase player)
■ DayZPlayerSyncJunctures.SendPlayerUnconsciousness(player, true);
■override void OnDeactivate(PlayerBase player)
■■player.m_UnconsciousEndTime = GetGame().GetTime();
■■DayZPlayerSyncJunctures.SendPlayerUnconsciousness(player, false);
■}
■override string GetDebugText()
■■string text_pulse = "pulse type:"+m_Player.GetPulseType()+"|";
■■string text_shock = (PlayerConstants.CONSCIOUS_THRESHOLD - m_Player.GetHealth("","Shock")).
string debug_text = text_pulse + text_shock;
■■return debug_text;
■override void OnReconnect(PlayerBase player)
■override bool DeactivateCondition(PlayerBase player)
■■if( player.GetHealth("","Shock") >= PlayerConstants.CONSCIOUS_THRESHOLD && player.GetPulseT
■■return true;
■■return false;
■override void OnTick(PlayerBase player, float deltaT)
```

```
----- UndergroundAreaLoader.c - START ------
class JsonUndergroundTriggers
■ref array<ref JsonUndergroundAreaTriggerData> Triggers;
class JsonUndergroundAreaBreadcrumb
■vector GetPosition()
return Vector(Position[0],Position[1],Position[2]);
■ref array<float> ■Position;
■float ■■■EyeAccommodation;
■bool ■■■■UseRaycast;
■float ■■■■Radius;
class JsonUndergroundAreaTriggerData
■vector GetPosition()
■ return Vector(Position[0], Position[1], Position[2]);
■vector GetOrientation()
■ Teturn Vector(Orientation[0], Orientation[1], Orientation[2]);
■vector GetSize()
■ return Vector(Size[0], Size[1], Size[2]);
■ref array<float> Position;
■ref array<float> Orientation;
■ref array<float> Size;
■float EyeAccommodation;
■float InterpolationSpeed;
■ref array<ref JsonUndergroundAreaBreadcrumb> Breadcrumbs;
};
class UndergroundAreaLoader
■private static string m_Path = "$mission:cfgundergroundtriggers.json";
■static ref JsonUndergroundTriggers m_JsonData;
■static JsonUndergroundTriggers GetData()
■■if (!FileExist( m_Path ))
```

■■// We fallback to check in data and notify user file was not found in mission

```
// ----- UndergroundHandlerClient.c - START ------
enum EUndergroundPresence
■NONE,//player is not interacting with underground at any level
■OUTER,//player is on the outskirts of the underdound, some effects are already in effect, while others mi
■TRANSITIONING,//player has entered underground and is in the process of screen darkening transition
■FULL//the player is now fully entered underground
class UndergroundHandlerClient
■const float LIGHT_BLEND_SPEED_IN = 5;
■const float LIGHT_BLEND_SPEED_OUT = 1.75;
■const float MAX_RATIO = 0.9;//how much max ratio between 0..1 can a single breadcrumb occupy
■const float RATIO_CUTOFF = 0;//what's the minimum ratio a breadcrumb needs to have to be considered
■const float DISTANCE_CUTOFF = 5;//we ignore breadcrumbs further than this distance
■const float ACCO_MODIFIER = 1;//when we calculate eye accommodation between 0..1 based on the b
■const float DEFAULT_INTERPOLATION_SPEED = 7;
■const string UNDERGROUND_LIGHTING = "dz\\data\\lighting\\lighting_underground.txt";
■private ref AnimationTimer ■m_AnimTimerLightBlend;
■private PlayerBase ■■■■m_Player;
■private PPÉRUndergroundAcco  m_Requester;
■private PPERequester_CameraNV ■m_NVRequester;
■private ref set<UndergroundTrigger> m_InsideTriggers = new set<UndergroundTrigger>();
■private float ■■m_EyeAccoTarget = 1;
■private float ■■m_AccoInterpolationSpeed;
■private float ■■m_EyeAcco = 1;
■private float ■■m_LightingLerpTarget;
■private float ■■m_LightingLerp;
■private EffectSound m_AmbientSound;
■private UndergroundTrigger m_TransitionalTrigger;
■void UndergroundHandlerClient(PlayerBase player)
■■GetGame().GetWorld().LoadUserLightingCfg(UNDERGROUND_LIGHTING, "Underground");
■■m_Player = player;
■■m_NVRequester = PPERequester_CameraNV.Cast(PPERequesterBank.GetRequester( PPERequester
|
■void ~UndergroundHandlerClient()
■If (GetGame())
■■■GetGame().GetWorld().SetExplicitVolumeFactor_EnvSounds2D(1, 0.5);
■■■GetGame().GetWeather().SuppressLightningSimulation(false);
■■GetGame().GetWorld().SetUserLightingLerp(0);
■■■if (m_AmbientSound)
■■■m_AmbientSound.Stop();
| | |
■}
■private PPERUndergroundAcco GetRequester()
■ if (!m_Requester)
```

■■ Requester – PPERI Inderground Acco Cast (PPERequester Bank Get Requester (PPERequester Ba

```
----- UndergroundStash.c - START ------
class UndergroundStash extends ItemBase
■void UndergroundStash() {}
■void PlaceOnGround()
■ vector pos = GetPosition();
■■pos[1] = GetGame().SurfaceRoadY(pos[0], pos[2]);
\blacksquarepos[1] = pos[1] + 0.22;
■■SetPosition(pos);
■ItemBase GetStashedItem()
■ ItemBase item: ■■
■■if (GetInventory().GetCargo().GetItemCount() > 0)
■■item = ItemBase.Cast(GetInventory().GetCargo().GetItem(0));
■ return item;
■override bool CanDisplayCargo()
■■return false;
■override bool CanPutInCargo(EntityAl parent)
■■return false;
■override bool CanReleaseCargo(EntityAl cargo)
■ return false;
■override bool CanReceiveItemIntoHands(EntityAl item_to_hands)
■ return false;
■override bool CanSaveItemInHands(EntityAl item_in_hands)
■ return false;
■}
■override bool CanPutIntoHands(EntityAl parent)
■ return false;
■override bool IsInventoryVisible()
■ return false;
```

```
----- UndergroundTrigger.c - START ------
//! This entity exists both client andserver side
//! when it enters into player's bubble and gets instantiated client-side, it will locally spawn UndergroundTri
class UndergroundTriggerCarrier extends UndergroundTriggerCarrierBase
■ref JsonUndergroundAreaTriggerData m_Data;
■UndergroundTrigger m_Trigger;
■void UndergroundTriggerCarrier()
RegisterNetSyncVariableInt("m_TriggerIndex", -1, 255);
■void ~UndergroundTriggerCarrier()
■■if (m_Trigger && !m_Trigger.IsSetForDeletion() && GetGame())
■■■//RemoveChild(m_Trigger);
■■■m_Trigger.Delete();
■■}
■}
■override void OnVariablesSynchronized()
■■super.OnVariablesSynchronized();
■■if (!m_Trigger)
■■■SpawnTrigger();
■}
■bool CanSpawnTrigger()
■■return UndergroundAreaLoader.m_JsonData && m_TriggerIndex != -1;
■void RequestDelayedTriggerSpawn()
//Print("RequestDelayedTriggerSpawn() " + this);
■■GetGame().GetCallQueue(CALL_CATEGORY_SYSTEM).CallLater(SpawnTrigger, 100);
|
■void SpawnTrigger()
■■if (!CanSpawnTrigger())
■■■RequestDelayedTriggerSpawn();
■■return;
■■}
■■if (UndergroundAreaLoader.m_JsonData.Triggers && UndergroundAreaLoader.m_JsonData.Triggers.I
■■JsonUndergroundAreaTriggerData data = UndergroundAreaLoader.m_JsonData.Triggers[m_Trigger
■■■UndergroundTrigger trigger = UndergroundTrigger.Cast(GetGame().CreateObjectEx( "UndergroundT
■■■if (trigger)
■■■#ifdef DEVELOPER
```

■■■trigger m | ocal – true:

```
// ----- UniversalLight.c - START -----
class UniversalLight extends Switchable_Base
■UniversallightLight ■m_Light;
■static int■■■REFLECTOR_ID = 1;
■static int■■■GLASS_ID = 2;
■static string ■■LIGHT_OFF_GLASS ■= "dz\\gear\\tools\\data\\flashlight_glass.rvmat";
■static string ■■LIGHT_OFF_REFLECTOR = "dz\\weapons\\attachments\\data\\m4_flashlight.rvmat";
■static string ■■LIGHT_ON_GLASS ■■= "dz\\gear\\tools\\data\\flashlight_glass_on.rvmat";
■static string ■■LIGHT_ON_REFLECTOR ■= "dz\\weapons\\attachments\\data\\m4_flashlight_on.rvmat"
■ref array<int> ■■m_AttachmentSlotsCheck;
■void UniversalLight()
■■InitAttachmentsSlotsToCheck(m_AttachmentSlotsCheck);
■override ScriptedLightBase GetLight()
■■return m_Light;
■override bool CanPutAsAttachment( EntityAl parent )
■if (!super.CanPutAsAttachment(parent)) {return false;}
■■bool req_attachment ■■= false;
■■bool rail_attachment_found = false;
■■int slot_id;
■ItemBase attachment;
■■for (int i = 0; i < parent.GetInventory().GetAttachmentSlotsCount(); i++)
■■■slot_id = parent.GetInventory().GetAttachmentSlotId(i);
■■■if ( m_AttachmentSlotsCheck.Find(slot_id) != -1 )
■■■req_attachment = true;
attachment = ItemBase.Cast(parent.GetInventory().FindAttachment(slot_id));
■■■■if (attachment && attachment.ConfiglsExisting("hasRailFunctionality") && attachment.ConfigGetBo
■■■■rail_attachment_found = true;
■■return !req_attachment || (req_attachment && rail_attachment_found);
■override void OnWorkStart()
■■if (!GetGame().IsServer() | !GetGame().IsMultiplayer()) // Client side
■■■m_Light = UniversallightLight.Cast( ScriptedLightBase.CreateLight(UniversallightLight, "0 0 0", 0.08)
■■■m_Light.AttachOnMemoryPoint(this, "beamStart", "beamEnd");
■■■SetObjectMaterial(GLASS_ID, LIGHT_ON_GLASS);
■■■SetObjectMaterial(REFLECTOR_ID, LIGHT_ON_REFLECTOR);
——}
```

Toverride void OnWork/ float consumed energy)

```
// ----- UniversallightLight.c - START ------
class UniversallightLight extends SpotLightBase
■private static float m_DefaultBrightness = 6.05;
■private static float m_DefaultRadius = 25;
■private static float m_DefaultAngle = 100;
■void UniversallightLight()
■■SetVisibleDuringDaylight( true );
■■SetRadiusTo( m_DefaultRadius );
■■SetSpotLightÀngle( m_DefaultAngle );
■■SetCastShadow( true );
■■SetBrightnessTo( m_DefaultBrightness );
■■SetFadeOutTime( 0.15 );
■■SetAmbientColor( 0.95, 0.88, 0.8 );
■SetDiffuseColor( 0.95, 0.88, 0.8 );
■■SetDisableShadowsWithinRadius(1.2);
|
■void SetIntensity( float coef, float time )
■■FadeBrightnessTo( m_DefaultBrightness * coef, time );
■■FadeRadiusTo( m_DefaultRadius * coef, time );
■}
■override void UpdateLightMode( string slotName )
■■switch (slotName)
■■■case "weaponFlashlight":
SetSpotLightAngle(m_DefaultAngle/2);
■■■SetRadiusTo( m_DefaultRadius * 1.8 ):
■■break;
■■default:
■■■SetSpotLightAngle( m_DefaultAngle );
■■■SetRadiusTo( m_DefaultRadius );
■■break;
——}
■}
// ----- UniversallightLight.c - END ------
// -----
// ----- UniversalTemperatureSource.c - START ------
class UniversalTemperatureSourceSettings
If I float m_UpdateInterval = 1.0; I I I flow often the Update is ticking
■float m_TemperatureMin■■= 0;■■■//! min temperature you can get from the TemperatureSource
If loat m. Temperature Max III - 100: III II/I may temperature you can get from the Temperature Source
```

```
----- UniversalTemperatureSourceLambdaBase.c - START ------------
class UniversalTemperatureSourceLambdaBase
■const float HEAT_THROUGH_AIR_COEF = 0.003;
■void UniversalTemperatureSourceLambdaBase() {};
■void ~UniversalTemperatureSourceLambdaBase() {};
■void Execute(UniversalTemperatureSourceSettings pSettings, UniversalTemperatureSourceResult result
■void DryItemsInVicinity(UniversalTemperatureSourceSettings pSettings)
■■float distance;
■■array<Object> nearestObjects = new array<Object>;
■■vector pos = pSettings.m_Position;
■■if (pSettings.m_Parent != null)
■■pos = pSettings.m_Parent.GetPosition();
■■GetGame().GetObjectsAtPosition(pos, pSettings.m_RangeMax, nearestObjects, null);
\blacksquare for (int i = 0; i < nearestObjects.Count(); i++)
■■■EntityAl nearestEnt = EntityAl.Cast(nearestObjects.Get(i));
■■■//! heat transfer to items (no in player possession)
■■■if (nearestEnt && nearestEnt.HasWetness() && nearestEnt != pSettings.m_Parent && nearestEnt.Ge
■■■float wetness = nearestEnt.GetWet();
■■■■//! drying of items around the fireplace (based on distance)
■■■if (wetness > 0)
  ■■■distance = vector.Distance(nearestEnt.GetPosition(), pSettings.m_Position);
■■■■distance = Math.Max(distance, 0.1); /min distance cannot be 0 (division by zero)
■■■■■wetness = wetness * (HEAT_THROUGH_AIR_COEF / distance);
■■■■wetness = Math.Clamp(wetness, nearestEnt.GetWetMin(), nearestEnt.GetWetMax());
■■■■nearestEnt.AddWet(-wetness);
}
}
class UniversalTemperatureSourceLambdaConstant: UniversalTemperatureSourceLambdaBase
■override void Execute(UniversalTemperatureSourceSettings pSettings, UniversalTemperatureSourceRe
■ resultValues.m_Temperature = pSettings.m_TemperatureMax;
■■DryItemsInVicinity(pSettings);
class UniversalTemperatureSourceLambdaEngine: UniversalTemperatureSourceLambdaBase
```

■override void Execute(UniversalTemperatureSourceSettings pSettings, UniversalTemperatureSourceRe

```
----- UniversalTemperatureSourceLambdaFireplace.c - START -----------------
class UniversalTemperatureSourceLambdaFireplace: UniversalTemperatureSourceLambdaBase
■int m_FuelCount;
■int m_SmallFireplaceTemperatureMax;
■int m_NormalFireplaceTemperatureMax;
■float m_Temperature;
■void UniversalTemperatureSourceLambdaFireplace()
■m_FuelCount■■■■■= 0;
■■m_SmallFireplaceTemperatureMax■■= 0;
■■m_NormalFireplaceTemperatureMax■■= 0;
\blacksquarem_Temperature \blacksquare
■}
■void SetSmallFireplaceTemperatureMax(int value)
Emm_SmallFireplaceTemperatureMax = value;
■void SetNormalFireplaceTemperatureMax(int value)
■■m_NormalFireplaceTemperatureMax = value;
}
■void SetFuelCount(int value)
■■m_FuelCount = value;
■}
void SetCurrentTemperature(float temperature)
■■//no fuel present, temperature should be low but there can be high temperature from previous fuel burn
■■if (m_FuelCount == 0 || temperature <= m_SmallFireplaceTemperatureMax)
Table 1 temperature = Math.Clamp(temperature, 0, m_SmallFireplaceTemperatureMax); //small fire
■■else
■■■temperature = Math.Clamp(temperature, 0, m_NormalFireplaceTemperatureMax); //normal fire
■■m_Temperature = temperature;
■override void Execute(UniversalTemperatureSourceSettings pSettings, UniversalTemperatureSourceRe
■■resultValues.m_Temperature = m_Temperature;
■■//Debug.Log(string.Format("Execute: temperature: %1", resultValues.m_Temperature), "UTS Fireplace
■■if (pSettings.m_AffectStat)
IDE//! set temperature to the item stat
■■■pSettings.m_Parent.SetTemperature(m_Temperature);
```

■■DryItemsInVicinity(pSettings);

```
// ----- UpgradeTorchWithLard.c - START ------
class UpgradeTorchWithLard extends RecipeBase
■override void Init()
■{
m_Name = "#STR_UpgradeTorchWithLard0";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
\blacksquarem_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = -1;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m_MinDamageIngredient[1] = -1;//-1 = disable check
■■m_MaxDamageIngredient[1] = -1;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Lard");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m_IngredientUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Torch");//you can insert multiple ingredients this way
■■InsertIngredient(1,"LongTorch");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
■■m IngredientSetHealth[1] = -1; // -1 = do nothing
■ Ingredient Add Quantity [1] = 0;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("Torch");//add results here
m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
\blacksquarem_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = -2;// (value) == -1 means do nothing; a (value) >= 0 means this result will i
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w
```

■override bool CanDo(ItemBase ingredients[]_PlayerBase player)//final check for recipe's validity

```
// ----- UpgradeTorchWithLiquidFuel.c - START ------
class UpgradeTorchWithLiquidFuel extends RecipeBase
■override void Init()
■{
m_Name = "#str_upgrade_torch_fuel";
■■m_IsInstaRecipe = false;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1;//animation length in relative time units
m_Specialty = 0.02;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = -1;//-1 = disable check
■■m_MinQuantityIngredient[0] = -1;//-1 = disable check
■ MaxQuantityIngredient[0] = -1;//-1 = disable check
■■m MinDamageIngredient[1] = -1://-1 = disable check
■■m_MaxDamageIngredient[1] = -1;//-1 = disable check
■■m_MinQuantityIngredient[1] = -1;//-1 = disable check
■■m_MaxQuantityIngredient[1] = -1;//-1 = disable check
■■//INGREDIENTS
■■//ingredient 1
■■InsertIngredient(0,"Bottle_Base");
■■InsertIngredient(0,"Barrel_ColorBase");
\blacksquarem_IngredientAddHealth[0] = 0;// 0 = do nothing
■ IngredientSetHealth[0] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[0] = 0;// 0 = do nothing
■■m_IngredientDestroy[0] = false;//true = destroy, false = do nothing
■■m IngredientUseSoftSkills[0] = false:// set 'true' to allow modification of the values by softskills on this i
■■//ingredient 2
■■InsertIngredient(1,"Torch");//you can insert multiple ingredients this way
■■InsertIngredient(1,"LongTorch");//you can insert multiple ingredients this way
\blacksquarem_IngredientAddHealth[1] = 0;// 0 = do nothing
\blacksquarem_IngredientSetHealth[1] = -1; // -1 = do nothing
■■m_IngredientAddQuantity[1] = -1;// 0 = do nothing
■■m_IngredientDestroy[1] = false;// false = do nothing
■■m_IngredientUseSoftSkills[1] = false;// set 'true' to allow modification of the values by softskills on this i
■■//result1
■■//AddResult("Torch");//add results here
■■m_ResultSetFullQuantity[0] = false;//true = set full quantity, false = do nothing
■■m_ResultSetQuantity[0] = -1;//-1 = do nothing
■■m_ResultSetHealth[0] = -1;//-1 = do nothing
■■m_ResultInheritsHealth[0] = -2;// (value) = -1 means do nothing; a (value) >= 0 means this result will i
■■m_ResultInheritsColor[0] = -1;// (value) == -1 means do nothing; a (value) >= 0 means this result class
■■m_ResultToInventory[0] = -2;//(value) == -2 spawn result on the ground;(value) == -1 place anywhere i
■■m_ResultUseSoftSkills[0] = false;// set 'true' to allow modification of the values by softskills on this resu
```

■■m_ResultReplacesIngredient[0] = -1;// value == -1 means do nothing; a value >= 0 means this result w

■}

```
// ----- Ushanka_ColorBase.c - START ------
class Ushanka_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class Ushanka_Black extends Ushanka_ColorBase {};
class Ushanka_Blue extends Ushanka_ColorBase {};
class Ushanka_Green extends Ushanka_ColorBase {};
// ----- Ushanka_ColorBase.c - END ------//
// ----- USMCJacket_ColorBase.c - START ------
class USMCJacket_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
|
class USMCJacket_Desert extends USMCJacket_ColorBase {};
class USMCJacket_Woodland extends USMCJacket_ColorBase {};
// ----- USMCJacket_ColorBase.c - END ------
// -----
// ----- USMCPants_ColorBase.c - START ------
class USMCPants_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class USMCPants_Desert extends USMCPants_ColorBase {};
class USMCPants_Woodland extends USMCPants_ColorBase {};
```

```
_____UtilityClasses.c - START -----
class ItemVariableFlags
■static const int NONE ■■■■= 0;
■static const int FLOAT■■■ = 0x0001;
■static const int STRING■■ ■■■= 0x0002;
■static const int BOOL ■■■■= 0x0004;
class CachedObjectsParams
■static ref Param1<int> ■■PARAM1_INT;//CachedObjectsParams.PARAM1_INT
■static ref Param1<bool> ■PARAM1_BOOL;//CachedObjectsParams.PARAM1_BOOL
■static ref Param1<float> ■PARAM1_FLOAT;//CachedObjectsParams.PARAM1_FLOAT
■static ref Param1<string> ■PARAM1_STRING;//CachedObjectsParams.PARAM1_STRING
■static ref Param2<int,int> ■■PARAM2_INT_INT;//CachedObjectsParams.PARAM2_INT_INT
■static ref Param2<int,float> ■PARAM2_INT_FLOAT;//CachedObjectsParams.PARAM2_INT_FLOAT
■ static ref Param2<int, string> ■ PARAM2_INT_STRING;//CachedObjectsParams.PARAM2_INT_STRING ■ static ref Param2<string, float> PARAM2_STRING_FLOAT;//CachedObjectsParams.PARAM2_STRING_ ■ static ref Param2<string, string> PARAM2_STRING_STRING;//CachedObjectsParams.PARAM2_STRING_STRING;//CachedObjectsParams.PARAM2_STRING
■static ref Param2<float,float> ■PARAM2_FLOAT_FLOAT;//CachedObjectsParams.PARAM2_STRING_S
■static void Init()
■■PARAM1_INT = new Param1<int>(0);
■■PARAM1_BOOL = new Param1<bool>(false);
■■PARAM1_FLOAT = new Param1<float>(0);
■■PARAM1_STRING = new Param1<string>("");
■■PARAM2_INT_INT = new Param2<int,int>(0,0);
■■PARAM2_INT_FLOAT = new Param2<int,float>(0,0);
■■PARAM2_INT_STRING = new Param2<int,string>(0,"");
■■PARAM2_STRING_FLOAT = new Param2<string,float>("",0);
■■PARAM2_STRING_STRING = new Param2<string,string>("",
■■PARAM2_FLOAT_FLOAT = new Param2<float,float>(0,0);
■}
};
class CachedObjectsArrays//don't forget to .Clear() your cache object before using it
■static void Init()
■■ARRAY_STRING ■= new TStringArray;
■■ARRAY_FLOAT ■= new TFloatArray;
■■ARRAY_INT ■■= new TIntArray;
■}
■static ref TStringArray ARRAY_STRING;//CachedObjectsArrays.ARRAY_STRING
■static ref TFloatArray ARRAY_FLOAT;//CachedObjectsArrays.ARRAY_FLOAT
■static ref TIntArray ARRAY_INT;//CachedObjectsArrays.ARRAY_INT
};
// ----- UtilityClasses.c - END -----
// -----
```

```
// ----- Van 01.c - START ------
class Van_01 extends CarScript
■protected ref UniversalTemperatureSource m_UTSource;
■protected ref UniversalTemperatureSourceSettings m_UTSSettings;
■protected ref UniversalTemperatureSourceLambdaEngine m_UTŠLEngine;
■void Van_01()
■■//m_dmgContactCoef = 0.070; //TODO::Set proper value
■override void EEInit()
■■super.EEInit();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■■m_UTSSettings ■■■■■ new UniversalTemperatureSourceSettings();
■■■m_UTSSettings.m_ManualUpdate ■= true;
■■m_UTSSettings.m_TemperatureMin■= 0;
■■m_UTSSettings.m_TemperatureMax■= 30;
■■■m_UTSSettings.m_RangeFull■■= 0.5;
■■■m_UTSSettings.m_RangeMax■■= 2;
■■■m_UTSSettings.m_TemperatureCap■= 25;
■■■m_UTSLEngine■■■■■ new UniversalTemperatureSourceLambdaEngine();
■■■m_UTSource■■■■■■= new UniversalTemperatureSource(this, m_UTSSettings, m_UTSLEngine);
■}
■override void OnEngineStart()
■■super.OnEngineStart();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■■m_UTSource.SetDefferedActive(true, 20.0);
--}
■override void OnEngineStop()
■■super.OnEngineStop();
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■■m_UTSource.SetDefferedActive(false, 10.0);
——}
|
■override void EOnPostSimulate(IEntity other, float timeSlice)
■■if (GetGame().IsServer() || !GetGame().IsMultiplayer())
■■■if (m_UTSource.IsActive())
```

■■■m_UTSource.Update(m_UTSSettings, m_UTSLEngine);

```
// ----- Vector2.c - START -----
class Vector2
■void Vector2(float value_x, float value_y)
\blacksquare \blacksquare x = value_x;
\blacksquare \blacksquare y = value_y;
■float x;
■float y;
// -----
// ----- Vector2.c - END -------//
// ----- VehicleAnimInstances.c - START -----
enum VehicleAnimInstances
\blacksquareCIVVAN = 0,
■V3S = 1,
\blacksquareSEDAN = 2,
\blacksquareHATCHBACK = 3,
■BUS = 4,
■S120 = 5
\blacksquareMULTICAR = 6,
■GOLF = 7,
■HMMWV = 8
};
// ----- VehicleAnimInstances.c - END ------
// -----
// ----- VehicleBattery.c - START -----
class VehicleBattery: ItemBase
Eoverride bool CanPutAsAttachment(EntityAl parent)
■if (!super.CanPutAsAttachment(parent))
■■return false;
■■if (parent.lsInherited(BatteryCharger))
■■■BatteryCharger charger = BatteryCharger.Cast(parent);
■■return charger CanReceiveAttachment(this InventorySlots INVALID):
```

```
// ----- VehicleManager.c - START ------
/*class VehicleManager
■PlayerBase ■■■■■■m_Player;
■HumanInputController ■■■m_HIC;
■protected ActionManagerBase ■ m_AM;
■void VehicleManager( PlayerBase player, ActionManagerBase mngr)
■■m_Player = player;
■■m_HIC = m_Player.GetInputController();
\blacksquare \blacksquare m_AM = mngr;
|}
■//Called from players commandhandler each frame, checks input
■void Update( float deltaT )
■■PickAction();
■}
■protected void PerformAction( int actionID )
■■if (!GetGame().IsDedicatedServer())
■■■if (!m_Player.GetCommandModifier_Action() && !m_Player.GetCommand_Action())
 ■■■ActionBase action = m_AM.GetAction(actionID);
■■■■if ( action )
■■■■//ActionTarget target = new ActionTarget( m_AM.FindActionTarget().GetObject(), -1, Vector(0,0,0
■■■■ActionTarget target = new ActionTarget( m_Player.GetHierarchyParent(), null, -1, Vector(0,0,0), -
■■■■if ( target && action.Can(m_Player, target, null ) )
  ■■■■action.Start(m_Player, target, null);
■■■■■if ( GetGame().IsClient() )
■■■■■■ScriptInputUserData ctx = new ScriptInputUserData;
■■■■■■■ctx.Write(INPUT_UDT_STANDARD_ACTION);
EXAMPLE 2 ctx.Write(action.GetType());
TEMPT action.WriteToContext(ctx, target);
■■■■■■ctx.Send();
———}
}
else
■■■m_AM.StartDeliveredAction();
■}
■protected void PickAction()
■■Car car;
■■if (!Class.CastTo(car, m_Player.GetHierarchyParent())) return;
```

■■if (m_Player)

```
----- VehicleSmoke.c - START ------
class EffVehicleSmoke : EffectParticle
■void EffVehicleSmoke()
■■SetParticleStateLight();
■void SetParticleStateLight()
■■SetParticleState( ParticleList.HATCHBACK_COOLANT_OVERHEATING );
■void SetParticleStateHeavy()
■■SetParticleState( ParticleList.HATCHBACK_COOLANT_OVERHEATED );
■void SetParticleState( int state )
■■bool was_playing = IsPlaying();
■Stop();
■■SetParticleID(state);
■■if (was_playing)
■■Start(); // resume effect
// ------
// ----- VehicleSmoke.c - END ---------------//
// ----- VerticalSpacer.c - START -----
class VerticalSpacer: SpacerBase
reference int border;
■reference int gap;
■override protected void UpdateChild(Widget child, float w, float h, int index)
■float itemWidth = w - (2 * border);
■■float itemHeight = (h - (border * 2) - ((m_count - 1) * gap)) / m_count;
■■child.SetPos(border, border + ((itemHeight + gap) * index));
```

Child SetSize(item\Width_itemHeight).

```
// ----- VicinityContainer.c - START ------
class VicinityContainer: CollapsibleContainer
■ref VicinitySlotsContainer
■■■m_VicinityIconsContainer;
■ref map<EntityAI, ref Container>■m_ShowedItems■■■= new ref map<EntityAI, ref Container>;
■ref map<int, ref Container>■■■m_ShowedItemsIDs■■= new ref map<int, ref Container>;
■ref array<EntityAl>■■■■■m_ShowedItemIcons■■= new array<EntityAl>;
■ref map<CargoBase, ref Container>■m_ShowedCargos■■■= new ref map<CargoBase, ref Container</p>
■protected bool■■■■■■m_IsProcessing = false; // Prevents refreshing every time a child is added while
■const float DISTANCE_TO_ENTITIES ■= 1.0;
■const float DISTANCE_TO_THE_REST ■= 0.5;
■void VicinityContainer( LayoutHolder parent, int sort = -1 )
■■m_VicinityIconsContainer = new VicinitySlotsContainer( this );
■■m_Body.Insert( m_VicinityIconsContainer );
■■m_VicinityIconsContainer.GetRootWidget().SetColor(166 << 24 | 120 << 16 | 120 << 8 | 120);
■■ MainWidget = m_RootWidget.FindAnyWidget("body");
■■WidgetEventHandler.GetInstance().RegisterOnChildAdd( m_MainWidget, this, "OnChildAdd");
■■WidgetEventHandler.GetInstance().RegisterOnChildRemove( m_MainWidget, this, "OnChildRemove")
■■RecomputeOpenedContainers();
■ m_Collapsible Header. Set Name ("#container_vicinity");
■■LoadDefaultState();
■}
■bool IsVicinityContainerIconsActive()
■■return m_VicinityIconsContainer.IsActive();
■VicinitySlotsContainer GetVicinityIconsContainer()
■■return m_VicinityIconsContainer;
■bool IsContainerWithCargoActive()
■■return ( ContainerWithCargo.Cast( GetFocusedContainer() ) != null );
}
■bool IsItemWithAttachmentsActive()
■■return ( ContainerWithCargoAndAttachments.Cast( GetFocusedContainer() ) != null );
■bool IsItemWithCategoriesActive()
■ return ( AttachmentCategoriesContainer.Cast( GetFocusedContainer() ) != null );
■void TraverseShowedItems()
■■map<string, bool> serialized_types = new map<string, bool>();
\blacksquare for (int i = 0; i < m_ShowedItems.Count(); i++)
■■EntityAl entity = m_ShowedItems.GetKey(i);
```

■■Container container – m. ShowedItems GetFlement(i):

```
// ----- VicinityItemManager.c - START ------
class VicinityItemManager
■private const float UPDATE_FREQUENCY ■■■= 0.25;
■ private const float VICINITY_DISTANCE ■ ■ 0.5; ■ private const float VICINITY_ACTOR_DISTANCE ■ 2.0;
■ private const float VICINITY_CONE_DISTANCE ■ 2.0; ■ private const float VICINITY_CONE_REACH_DISTANCE = 2.0; ■ private const float VICINITY_CONE_ANGLE ■ 30;
■private const float VICINITY_CONE_RADIANS ■■■= 0.5;
■ private const string CE_CENTER ■■■■■ = "ce_center"; ■ private const float HEIGHT_OFFSET ■■■■■ = 0.2;
■private const int OBJECT_OBSTRUCTION_WEIGHT■■= 10000; //in grams
■private const float CONE_HEIGHT_MIN ■■■= -0.5;
■private const float CONE_HEIGHT_MAX ■■■■= 3.0;
■private ref array<EntityAl> m_VicinityItems ■■= new array<EntityAl>();
■private ref array<CargoBase> m_VicinityCargos ■■= new array<CargoBase>();
■private float m_RefreshCounter;
■private static ref VicinityItemManager s_Instance;
■static VicinityItemManager GetInstance ()
■■if (!s_Instance)
■■s_Instance = new VicinityItemManager();
■ return s_Instance;
■}
■void Init()
■{
•}
■array<EntityAl> GetVicinityItems()
■■return m_VicinityItems;
■void AddVicinityItems(Object object)
■■EntityAl entity = EntityAl.Cast(object);
■if (entity)
■■■if (m_VicinityItems.Find(entity) == INDEX_NOT_FOUND && GameInventory.CheckManipulatedObject
■■■■m_VicinityItems.Insert(entity);
■■■}
——}
|}
■array<CargoBase> GetVicinityCargos()
■■return m_VicinityCargos;
■}
■void AddVicinityCargos(CargoBase object)
```

■■if (m: VicinityCargos Find(object) -- INDEX NOT FOLIND)

```
// ----- VicinitySlotsContainer.c - START ------
class VicinitySlotsContainer: Container
■protected ref AttachmentsGroupContainer
■m_Container;
protected int
■protected int■■■■■■■m_SlotsCount;
■protected ref array<EntityAl>■■■■m_ShowedItems;
■void VicinitySlotsContainer( LayoutHolder parent )
■■m_Container = new AttachmentsGroupContainer(this);
■■ref SlotsContainer con = new SlotsContainer( m_Container, null );
■■m_Container.Insert( con );
■■m_Body.Insert( m_Container );
THE for (int j = 0; j < ITEMS_IN_ROW; j++)
 ■■Slotslcon icon = con.GetSlotlcon( j );
■■■WidgetEventHandler.GetInstance().RegisterOnDropReceived(icon.GetPanelWidget(), m_Parent, "C
 ■■■WidgetEventHandler.GetInstance().RegisterOnDropReceived( icon.GetGhostSlot(), m_Parent, "OnD
■■■WidgetEventHandler.GetInstance().RegisterOnDropReceived() icon.GetMainWidget(), m_Parent, "Or
■■■WidgetEventHandler.GetInstance().RegisterOnDraggingOver( icon.GetPanelWidget(), m_Parent, "D
■■■WidgetEventHandler.GetInstance().RegisterOnDraggingOver(icon.GetGhostSlot(), m_Parent, "DraggingOver(icon.GetGhostSlot(), m_Parent, "DraggingOver(icon.G
■■■WidgetEventHandler.GetInstance().RegisterOnDraggingOver(icon.GetMainWidget(), m_Parent, "Dr
 ■■■WidgetEventHandler.GetInstance().RegisterOnDoubleClick( icon.GetPanelWidget(), this, "DoubleCli
■■■WidgetEventHandler.GetInstance().RegisterOnMouseButtonUp(icon.GetPanelWidget(), this, "MouseButtonUp(icon.GetPanelWidget(), this, "MouseButtonUp(icon.
■■■WidgetEventHandler.GetInstance().RegisterOnMouseButtonDown(icon.GetPanelWidget(), this, "Mo
■■con.SetColumnCount(0);
■con.SetForceShow(true);
■■WidgetEventHandler.GetInstance().RegisterOnDropReceived( m_Container.GetMainWidget(), m_Pare
■■WidgetEventHandler.GetInstance().RegisterOnDraggingOver( m_Container.GetMainWidget(), m_Pare
Beautiful Showed Items = new array<EntityAl>;
■bool IsItemWithContainerActive()
■■EntityAl ent = GetFocusedItem():
■■return ent && (ent.GetInventory().GetCargo() || (ent.GetSlotsCountCorrect() > 0 && ent.CanDisplayAn
■■//TODO: also check for cargo visibility maybe?
■override bool IsItemWithQuantityActive()
■■EntityAl ent = GetFocusedItem();
■■return ent && QuantityConversions.HasItemQuantity( ent ) && ent.CanBeSplit();
■}
■override bool IsItemActive()
■■EntityAl ent = GetFocusedItem();
■■return ent && !IsItemWithQuantityActive() && !IsItemWithContainerActive();
```

■hool IsEmptyItemActive()

```
// ----- VitaminBottle.c - START ------
class VitaminBottle: Edible_Base
■//Specify this item can only be combined but not split
■override void InitItemVariables()
■■super.InitItemVariables();
■can_this_be_combined = true;
■override void OnConsume(float amount, PlayerBase consumer)
■■if (consumer.GetModifiersManager().IsModifierActive(eModifiers.MDF_IMMUNITYBOOST)) //effectivel
■■consumer.GetModifiersManager().DeactivateModifier(eModifiers.MDF_IMMUNITYBOOST);
■■consumer.GetModifiersManager().ActivateModifier(eModifiers.MDF_IMMUNITYBOOST);
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceConsumeSingle);
■■AddAction(ActionConsumeSingle);
// -----
// ----- VitaminBottle.c - END ------
// -----
// ----- Vodka.c - START ------
class Vodka: Bottle_Base
■override void SetActions()
■■super.SetActions();
■■RemoveAction(ActionWashHandsItem);
};
// -----
// ----- Vodka.c - END -----
// -----
```

```
// ----- Vomit.c - START ------
class EffVomit: EffectParticle
■void EffVomit()
■■SetParticleID(ParticleList.VOMIT);
// ----- Vomit.c - END -----
// -----
// ----- VomitBlood.c - START ------
class EffVomitBlood : EffectParticle
■void EffVomitBlood()
■■SetParticleID(ParticleList.VOMIT_BLOOD);
// ----- VomitBlood.c - END -----
// -----
// ----- VomitState.c - START ------
class VomitSymptom extends SymptomBase
■//just for the Symptom parameters set-up and gets called even if the Symptom doesn't execute, don't put
■const int BLOOD_LOSS = 250;
■override void OnInit()
■m_SymptomType = SymptomTypes.PRIMARY;
\blacksquarem_Priority = 100;
■■m_ID = SymptomIDs.SYMPTOM_VOMIT;
■■m_DestroyOnAnimFinish = true;
■■m_SyncToClient = false;
\blacksquare \blacksquare m_Duration = 5;
■■m_MaxCount = 1;
■}
■//!gets called every frame
■override void OnUpdateServer(PlayerBase player, float deltatime)
```

```
// ----- VomitStuffed.c - START ------
class VomitStuffedMdfr: ModifierBase
■override void Init()
■{
■ TrackActivatedTime = false;
■■m ID ■■■■■= eModifiers.MDF VOMITSTUFFED;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■override void OnTick(PlayerBase player, float deltaT)
|
■override bool ActivateCondition(PlayerBase player)
■float stomach = m_Player.m_PlayerStomach.GetStomachVolume();
■■if (stomach >= PlayerConstants.VOMIT_THRESHOLD)
■■return true;
——}
else
■■■return false;
——}
■override void OnActivate(PlayerBase player)
■■player.GetSymptomManager().QueueUpPrimarySymptom(SymptomIDs.SYMPTOM_VOMIT);
■override bool DeactivateCondition(PlayerBase player)
■■ return !ActivateCondition(player);
■}
// ----- VomitStuffed.c - END ------
// ----- VONManager.c - START ------//
class VONManagerBase: Managed
■protected bool■■■■■m_VoNToggled;
■ref ■ ScriptInvoker■■■m_OnVonStateEvent;
■ref ■ ScriptInvoker■■■m_OnPartyChatChangedEvent;
```

■void VONManagerBase()

```
// ----- VSS.c - START -----
class VSS_Base : RifleBoltFree_Base
■override RecoilBase SpawnRecoilObject()
■ return new VSSRecoil(this);
■/*override int GetWeaponSpecificCommand(int weaponAction, int subCommand)
■■if (weaponAction == WeaponActions.RELOAD)
 ■■■switch (subCommand)
      ■■ case WeaponActionReloadTypes.RELOADSRIFLE_MAGAZINE_BULLET:
      I■■■return WeaponActionReloadTypes.RELOADRIFLE_MAGAZINE_BULLET;
      ■■■case WeaponActionReloadTypes.RELOADSRIFLE_NOMAGAZINE_BULLET:
 ■■■■return WeaponActionReloadTypes.RELOADRIFLE_NOMAGAZINE_BULLET;
■■■case WeaponActionReloadTypes.RELOADSRIFLE_MAGAZINE_NOBULLET:
■■■■return WeaponActionReloadTypes.RELOADRIFLE_MAGAZINE_NOBULLET;
     ■■■case WeaponActionReloadTypes.RELOADSRIFLE_NOMAGAZINE_NOBULLET:
 ■■■■Ireturn WeaponActionReloadTypes.RELOADRIFLE_NOMAGAZINE_NOBULLET;
■■■default:
■■■■return subCommand;
 ■■return subCommand;
■}*/
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■EntityAl entity;
■■if ( Class.CastTo(entity, this) )
■■■entity.GetInventory().CreateInInventory( "PSO1Optic" );■
■■■entity.SpawnEntityOnGroundPos("Mag_VSS_10Rnd", entity.GetPosition());
==}
■}
class VSS: VSS_Base
■override bool CanEnterIronsights()
■■ItemOptics optic = GetAttachedOptics();
■■if (optic && PSO1Optic.Cast(optic) || PSO11Optic.Cast(optic) || KashtanOptic.Cast(optic) || KazuarOptic.Cast(optic) || KazuarO
Exercise return true:
■■return super.CanEnterIronsights();
|
class ASVAL : VSS_Base {};
```

```
// ----- VSSRecoil.c - START ------
class VSSRecoil: RecoilBase
■override void Init()
■■vector point_1;
■■vector point_2;
■■vector point_3;
■■vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRan
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.25;
■■m_MouseOffsetRangeMin = 60;//in degrees min
■■m_MouseOffsetRangeMax = 100;//in degrees max
■■m_MouseOffsetDistance = 0.6;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.25;//[0..1] a time it takes to move the mouse the required distance rel
■■m_CamOffsetDistance = 0.0075;
■■m_CamOffsetRelativeTime = 1;
}
// -----
// ----- VSSRecoil.c - END -----
// ----- WarmthNotfr.c - START -----
class WarmthNotfr: NotifierBase
■private const float ■DEC_TRESHOLD_LOW ■■■= 0;
■ private const float ■ DEC_TRESHOLD_MED ■ ■ = -0.2; ■ private const float ■ DEC_TRESHOLD_HIGH■ ■ = -0.3;
■private const float ■INC_TRESHOLD_LOW ■■■= 0;
■private const float ■INC_TRESHOLD_MED ■■■= 0.2;
■private const float ■INC_TRESHOLD_HIGH■■= 0.3;
void WarmthNotfr(NotifiersManager manager)
 ■■m_TendencyBufferSize = 6;
■override int GetNotifierType()
■ return eNotifiers.NTF WARMTH;
```

```
// ----- Watchtower.c - START ------
class Watchtower extends BaseBuildingBase
 ■typename ATTACHMENT_BARBED_WIRE■■■= BarbedWire;
 ■typename ATTACHMENT_CAMONET ■■■= CamoNet;
■const float MAX_FLOOR_VERTICAL_DISTANCE ■■= 0.5;
 ■const float MIN_ACTION_DETECTION_ANGLE_RAD ■■= 0.35;■■//0.35 RAD = 20 DEG
■const float MAX_ACTION_DETECTION_DISTANCE ■■= 2.0;■■//meters
■ static const string BASE_VIEW_NAME ■ "level_"; ■ static const string BASE_WALL_NAME ■ "_wall_"; ■ static const string BASE_ROOF_NAME ■ = "_roof";
■static const int■MAX_WATCHTOWER_FLOORS■■= 3;
■static const int■MAX_WATCHTOWER_WALLS■■= 3;
■void Watchtower()
■override string GetConstructionKitType()
■■return "WatchtowerKit";
■override int GetMeleeTargetType()
■■return EMeleeTargetType.NONALIGNABLE;
■}
■/*override void EEHitBy(TotalDamageResult damageResult, int damageType, EntityAl source, int compo
■■super.EEHitBy(damageResult, damageType, source, component, dmgZone, ammo, modelPos, speed
\blacksquareif (component == -1)
Print("EEHitBy: " + this + "; damageType: "+ damageType +"; source: "+ source +"; component: "+ com
■■■Print("GetHighestDamage" + damageResult.GetHighestDamage("Health"));
■}*/
■//overriden for the express purpose of handling view geometry (interaction) animations
■override void UpdateVisuals()
■■super.UpdateVisuals();
■■SetAnimationPhase( "level_1", 0); //always visible
■■SetAnimationPhase( "level_1_wall_1", 0); //always visible
■■SetAnimationPhase("level_1_wall_2", 0); //always visible
■■SetAnimationPhase("level_1_wall_3", 0); //always visible
 ■■string part_name = "";
 ■■bool built = false;
\blacksquarefor (int i = 1; i < MAX_WATCHTOWER_FLOORS; ++i)
```

■■//roof checks

```
----- WatchtowerKit.c - START -----
class WatchtowerKit extends KitBase
■override bool CanReceiveAttachment(EntityAl attachment, int slotId)
■■ItemBase att = ItemBase.Cast(GetInventory().FindAttachment(slotId));
■if (att)
■■ return false;
■■return super.CanReceiveAttachment(attachment, slotId);
■// ADVANCED PLACEMENT
■override void OnPlacementComplete( Man player, vector position = "0 0 0", vector orientation = "0 0 0")
■■super.OnPlacementComplete( player, position, orientation );
■■if ( GetGame().IsServer() )
■■//Create watchtower
■■■Watchtower watchtower = Watchtower.Cast( GetGame().CreateObjectEx( "Watchtower", GetPosition
■■■watchtower.SetPosition( position );
■■■watchtower.SetOrientation( orientation );
■■■//make the kit invisible, so it can be destroyed from deploy UA when action ends
■■HideAllSelections();
■■■SetIsDeploySound( true );
--
■override bool DoPlacingHeightCheck()
■ return true;
■override float HeightCheckOverride()
■■return 2.83;//9.56;
■override void DisassembleKit(ItemBase item)
■ if (!IsHologram())
■■■ItemBase stick = ItemBase.Cast(GetGame().CreateObjectEx("WoodenStick",GetPosition(),ECE_PLA
■■■MiscGameplayFunctions.TransferItemProperties(this, stick);
■■stick.SetQuantity(4);
■■■Rope rope = Rope.Cast(item);
■■CreateRope(rope);
--
|
■//Debug menu Spawn Ground Special 
■override void OnDebugSpawn()
```

```
----- WaterBottle.c - START ------
class WaterBottle extends Bottle_Base
■void WaterBottle()
■void ~WaterBottle()
override bool IsContainer()
■■return true;
■override string GetPouringSoundset()
■■return "emptyVessle_WaterBottle_SoundSet";
■override string GetEmptyingLoopSoundsetHard()
■■return "pour_HardGround_WatterBottle_SoundSet";
■override string GetEmptyingLoopSoundsetSoft()
■■return "pour_SoftGround_WatterBottle_SoundSet";
■override string GetEmptyingLoopSoundsetWater()
■■return "pour_Water_WatterBottle_SoundSet";
■}
■override string GetEmptyingEndSoundsetHard()
■■return "pour_End_HardGround_WatterBottle_SoundSet";
■override string GetEmptyingEndSoundsetSoft()
■■return "pour_End_SoftGround_WatterBottle_SoundSet";
■override string GetEmptyingEndSoundsetWater()
■■return "pour_End_Water_WatterBottle_SoundSet";
■override bool CanPutInCargo( EntityAl parent )
■■if(!super.CanPutInCargo(parent)) {return false;}■
■■if (parent && (parent.IsKindOf("WatterBottle"))/* &&!(parent.IsKindOf("Container_Base"))*/)
```

■■return false:

```
// ----- WaterPouch_ColorBase.c - START ------
class WaterPouch_ColorBase: Bottle_Base{};
// ----- WaterPouch ColorBase.c - END ------
// ----- Weapon.c - START -----
/**@class■■Weapon
 * @brief■■script counterpart to engine's class Weapon
class Weapon extends InventoryItemSuper
index of the control of the con
■/**@fn■■Synchronize
 ■ * @brief ■Force synchronizes the weapon state from Server to Client. Use with caution.
■proto native void Synchronize();
■/**@fn■■GetMuzzleCount
■ * @return■number of muzzles
■proto native int GetMuzzleCount();
■/**@fn■■GetMuzzleIndexFromMagazineSlot
■ * @brief ■conversion slotId -> muzzleIndex
 * @param[in] magazineSlotId slotId of the magazine slot
■ * @return muzzleIndex on success, -1 otherwise
■//proto native int GetMuzzleIndexFromMagazineSlot (int magazineSlotId);
■/**@fn■■GetSlotFromMuzzleIndex
■ * @brief ■conversion muzzleIndex -> slotId
 ■ * @param[in] muzzleIndex
■muzzle index
* @return slotId on success, -1 otherwise
■proto native int GetSlotFromMuzzleIndex(int muzzleIndex);
■/**@fn■■GetCurrentMuzzle
* @return returns index of current muzzle
■proto native int GetCurrentMuzzle();
■/**@fn■■SetCurrentMuzzle
 * @brief ■sets index of active muzzle
 * @param[in] muzzleIndex
**/
■proto native void SetCurrentMuzzle(int muzzleIndex);
■proto native int GetMuzzleModeCount(int muzzleIndex);
```

Inroto native void SetMuzzleMode(int muzzleIndex, int modeIndex).

```
----- WeaponAttachMagazine.c - START ------
class RemoveNewMagazineFromInventory extends WeaponStateBase
■Magazine m_newMagazine; /// magazine that will be removed from inventory
■ref InventoryLocation m_newSrc;
■void RemoveNewMagazineFromInventory (Weapon_Base w = NULL, WeaponStateBase parent = NULL
■■m_newMagazine = NULL;
\blacksquarem_newSrc = NULL;
■}
■override void OnEntry (WeaponEventBase e)
■■if(e)
■■■if (!m_newSrc.IsValid())
■■■Èrror("[wpnfsm] " + Öbject.GetDebugName(m_weapon) + " RemoveNewMagazineFromInventory m
■■■if (m_newMagazine && m_newSrc && m_newSrc.IsValid())
 ■■■InventoryLocation curr = new InventoryLocation;
 ■■■■m_newMagazine.GetInventory().GetCurrentInventoryLocation(curr);
■■■■if (m_newSrc.GetType() == InventoryLocationType.GROUND && curr.GetType() == InventoryLocati
 ■■■■// already in LH
 ■■■else
     ■■■InventoryLocation Ihand = new InventoryLocation;
 ■■■■Ihand.SetAttachment(e.m_player, m_newMagazine, InventorySlots.LEFTHAND);
 ■■■■if (GameInventory.LocationSyncMoveEntity(m_newSrc, Ihand))
  I■■■■■if (LogManager.IsWeaponLogEnable()) {    wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(
  I■■■■■Error("[wpnfsm] " + Object.GetDebugName(m_weapon) + " RemoveNewMagazineFromInvento
 ■■■■}
  ∎∎else
 ■■■■Error("[wpnfsm] " + Object.GetDebugName(m_weapon) + " RemoveNewMagazineFromInventory, €
■■super.OnEntry(e);
■override void OnAbort (WeaponEventBase e)
■■m_newMagazine = NULL;
■■m_newSrc = NULL;
■■super.OnAbort(e);
■}
■override void OnExit (WeaponEventBase e)
■ m_weapon.ShowMagazine();
```

■■m_newMagazine – NHILL

```
----- WeaponChamberFromAttMag.c - START ------
// load bullet from att mag (no anim)
class WeaponChamberFromAttMag extends WeaponStateBase
■void WeaponChamberFromAttMag (Weapon_Base w = NULL, WeaponStateBase parent = NULL, int ac
•{ }
■override void OnEntry (WeaponEventBase e)
■■super.OnEntry(e);
■if(e)
{
■■■int mi = m_weapon.GetCurrentMuzzle();
■■■pushToChamberFromAttachedMagazine(m_weapon, mi);
|
■override void OnExit (WeaponEventBase e)
■■super.OnExit(e);
■}
};
// load bullet from att mag (no anim)
class WeaponChamberFromInnerMag extends WeaponStateBase
■void WeaponChamberFromInnerMag (Weapon_Base w = NULL, WeaponStateBase parent = NULL, int
[ }
■override void OnEntry (WeaponEventBase e)
■■super.OnEntry(e);
■■if (e)
■■■int mi = m_weapon.GetCurrentMuzzle();
■■pushToChamberFromInnerMagazine(m_weapon, mi);
==}
■override void OnExit (WeaponEventBase e)
■■super.OnExit(e);
};
// load bullet from att mag (no anim)
class WeaponChamberFromAttMagOnExit extends WeaponStateBase
■void WeaponChamberFromAttMagOnExit (Weapon_Base w = NULL, WeaponStateBase parent = NULL
[ }
■override void OnExit (WeaponEventBase e)
■■int mi = m_weapon.GetCurrentMuzzle();
■■pushToChamberFromAttachedMagazine(m_weapon, mi);
■■super.OnExit(e);
```

};

```
---- WeaponChambering.c - START -----
// load 1 bullet
class WeaponChambering_Start extends WeaponStartAction
■override void OnEntry (WeaponEventBase e)
■■super.OnEntry(e);
■■if (e)
■■■m_weapon.SelectionBulletHide();
■■■m_weapon.ForceSyncSelectionState();
|
■override bool IsWaitingForActionFinish()
■ return true;
■}
class WeaponChambering_Base extends WeaponStateBase
■float m_damage;
■string m_type;
■string m_magazineType;
■Magazine m_srcMagazine; /// source of the cartridge
■override bool SaveCurrentFSMState (ParamsWriteContext ctx)
■■if (!super.SaveCurrentFSMState(ctx))
■■■return false:
■■if (!ctx.Write(m_damage))
■■■Error("[wpnfsm] " + Object.GetDebugName(m_weapon) + " WeaponChambering.SaveCurrentFSMSt
■■return false:
■■if (!ctx.Write(m_type))
■■■Error("[wpnfsm] " + Object.GetDebugName(m_weapon) + " WeaponChambering.SaveCurrentFSMSt
■■■return false:
■■if (!ctx.Write(m_magazineType))
■■■Error("[wpnfsm] " + Object.GetDebugName(m_weapon) + " WeaponChambering.SaveCurrentFSMSt
■■return false:
■■if (!ctx.Write(m_srcMagazine))
Error("[wpnfsm] " + Object.GetDebugName(m_weapon) + " WeaponChambering.SaveCurrentFSMSt
■■return false:
——}
Teturn true;
■override bool LoadCurrentFSMState (ParamsReadContext ctx, int version)
```

■ if (!super.LoadCurrentFSMState(ctx, version))

■return false:

```
// ----- WeaponChamberingLooped.c - START ------
// load x bullets
class LoopedChambering_EndLoop extends WeaponStartAction
■override bool IsWaitingForActionFinish () { return true; }
class LoopedChambering_Wait4ShowBullet2 extends WeaponStateBase
■override bool IsWaitingForActionFinish () { return false; }
};
class LoopedChambering extends WeaponStateBase
■WeaponActions m_action;
■int m_startActionType;
■int m_endActionType;
■Magazine m_srcMagazine; /// source of the cartridge
■ref InventoryLocation m_srcMagazinePrevLocation;
■ref WeaponStateBase m_start;
■ref WeaponEjectCasing m_eject;
■ref WeaponChambering_Base m_chamber;■ref LoopedChambering_Wait4ShowBullet2 m_w4sb2;
■ref WeaponStartAction m_endLoop;
■ref BulletHide_W4T m_hideB;
■void LoopedChambering (Weapon_Base w = NULL, WeaponStateBase parent = NULL, WeaponActions
■■m_action = action;
■■m_startActionType = startActionType;
m_endActionType = endActionType;
■■// setup nested state machine
■■m_start = new WeaponChambering_Start(m_weapon, this, m_action, m_startActionType);
■■m_eject = new WeaponEjectCasing(m_weapon, this);
■■m_chamber = new WeaponChambering_Cartridge_ChambToMag(m_weapon, this);
■■m_w4sb2 = LoopedChambering_Wait4ShowBullet2(m_weapon, this);
■■m_hideB = new BulletHide_W4T(m_weapon, this);
■■m_endLoop = new LoopedChambering_EndLoop(m_weapon, this, m_action, m_endActionType); // @
■■// events
■■WeaponEventBase■■■■■■■fin_ = new WeaponEventHumanCommandActionFinished;
■■WeaponEventContinuousLoadBulletStart■__IS_ = new WeaponEventContinuousLoadBulletStart;
■■WeaponEventContinuousLoadBulletEnd■■__IE_ = new WeaponEventContinuousLoadBulletEnd;
■■WeaponEventAnimBulletShow■■■■__bs_= new WeaponEventAnimBulletShow;
■■WeaponEventAnimBulletHide■■■■__bh_= new WeaponEventAnimBulletHide;
■■WeaponEventAnimBulletEject■■■■__be_ = new WeaponEventAnimBulletEject;
■■WeaponEventAnimBulletInMagazine■■■__bM_ = new WeaponEventAnimBulletInMagazine;
■■WeaponEventAnimBulletShow2■■■_bs2_ = new WeaponEventAnimBulletShow2;
■■m_fsm = new WeaponFSM(this); // @NOTE: set owner of the submachine fsm
■■m_fsm.AddTransition(new WeaponTransition(m_start, ■_be_, m_eject));
■ m_fsm.AddTransition(new WeaponTransition(m_start, = __bs_, m_chamber));
■■m_fsm.AddTransition(new WeaponTransition(m_eject, ■_bs_, m_chamber));
■■m_fsm.AddTransition(new WeaponTransition(m_chamber, __bM_, m_w4sb2, NULL, new GuardAnd(n
```

■■m_fsm.AddTransition(new WeaponTransition(m_chamber, __bM_, m_endLoop));
■■m_fsm_AddTransition(new WeaponTransition(m_w4sh2 ■ __bh__m_hideR));

```
// ----- WeaponCharging.c - START -----
/**@class ■WeaponCharging
   @brief

charging of weapon without ammo to be chambered
class WeaponCharging extends WeaponStateBase
■WeaponActions m_action;
■int m_actionType;
■ref WeaponCharging_Start m_start;
■ref WeaponCharging_CK m_onCK;
■ref WeaponChamberFromAttMag_W4T m_chamber;
■ref WeaponEjectAllMuzzles m_eject;
■void WeaponCharging (Weapon_Base w = NULL, WeaponStateBase parent = NULL, WeaponActions a
■■m_action = action;
■■m_actionType = actionType;
■■// setup nested state machine
■■m_start = new WeaponCharging_Start(m_weapon, this, m_action, m_actionType);
■■m_onCK = new WeaponCharging_CK(m_weapon, this);
■■m chamber = new WeaponChamberFromAttMag_W4T(m_weapon, this);
■■m_eject = new WeaponEjectAllMuzzles(m_weapon, this);
■■// events
■■WeaponEventBase __be_ = new WeaponEventAnimBulletEject;
■■WeaponEventBase __bh_ = new WeaponEventAnimBulletHide;
■■WeaponEventBase __ck_ = new WeaponEventAnimCocked;
■■WeaponEventBase _fin_ = new WeaponEventHumanCommandActionFinished;
■■m_fsm = new WeaponFSM(this); // @NOTE: set owner of the submachine fsm
■■// transitions
■■m_fsm.AddTransition(new WeaponTransition( m_start, __be_, m_eject ));
■■m_fsm.AddTransition(new WeaponTransition( m_start, _fin_, NULL ));
■■m_fsm.AddTransition(new WeaponTransition( m_start, __ck_, m_eject, NULL, new GuardNot(new WeaponTransition( m_start, __ck_, m_eject, NULL, new GuardNot( new WeaponTransition( m_start, __ck_, m_eject, NULL, new MesonTransition( m_start, __ck_, m_eject, __ck_, m_eject, NULL, new MesonTransition( m_start, __ck_, m_eje
■■m_fsm.AddTransition(new WeaponTransition( m_start, __ck_, m_chamber, NULL, new WeaponGuard
■■m_fsm.AddTransition(new WeaponTransition( m_start, __ck_, m_onCK)); // some anims do not send |
■■m_fsm.AddTransition(new WeaponTransition( m_eject, __ck_, m_onCK));
■■m_fsm.AddTransition(new WeaponTransition( m_eject, _fin_, NULL));
■■m_fsm.AddTransition(new WeaponTransition( m_onCK, _fin_, NULL));
■■m_fsm.AddTransition(new WeaponTransition(m_chamber, _fin_, NULL));
■■m_fsm.SetInitialState(m_start);
■}
};
class WeaponCharging_Start extends WeaponStartAction
■override bool IsWaitingForActionFinish ()
■ return true;
```

```
// ----- WeaponCleaningKit.c - START ------
class WeaponCleaningKit: Inventory_Base {};
// ----- WeaponCleaningKit.c - END ------
// ----- WeaponDebug.c - START -----
enum eDebugMode
  NORMAL,
■MUZZLE_FIRE,
■CAMERA_MUZZLE_HYBRID,
■COUNT
};
class WeaponDebug
■const int BUFFER_SIZE = 1000;
■const float COLLISIONS DISTANCE TOLERANCE = 0.01;
■const float MAX_MUZZLE_DISTANCE_TOLERANCE = 20;
■const float CAMERA_BULLET_ORIGIN_OFFSET = 1;
■const float CAMERA_TRACE_MIN_DISTANCE_TOLERANCE = 0.3;
■Weapon m WeaponInHands:
■int m_BufferIndex;
■bool m IsDrawKeyHeldDown;
■bool m_IsLMBPressed;
■bool m_lsToggleKeyPressed;
■bool m_lsFireKeyPressed;
■float m TargetDistance:
■eDebugMode m_CurrentMode;
■vector m_AimTrailCyclic[BUFFER_SIZE];
■vector m_AimTrailOrdered[BUFFER_SIZE];
■ref map<int, string> m_DebugModesNames = new map<int, string>;
■//ref array<Selection> m_Selections = new array<Selection>();
■Shape m_Shape_usti;
■Shape m_Shape_konec;
■Shape m ShapeFireDirection1:
■Shape m_ShapeFireDirection2;
■Shape m_HitShape;
■Shape m_ShapeEye;
■Shape m_ShapeTrailLines;
■Shape m_ShapeFireDirCamera;
■Shape m_HitShape2;
■Shape m_HitShape3;
```

■Shane m_HitShane4·

```
----- WeaponDetachingMag.c - START ------
// detach magazine composite state
class WeaponDetachingMag_1 extends WeaponStartAction
class WeaponDetachingMag_Store extends WeaponStateBase
■Magazine m_magazine; /// magazine that will be detached
■ref InventoryLocation m_dst;
■override void OnEntry (WeaponEventBase e)
| LogManager.IsWeaponLogEnable()) { wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(m_weaponLogEnable()) }
■■super.OnEntry(e);
■■if (e)
■■{
■■■if (!m_magazine || !m_dst)
■■■Error("[wpnfsm] " + Object.GetDebugName(m_weapon) + " WeaponDetachingMag_Store, error - ne
}
■override void OnAbort (WeaponEventBase e)
■m_magazine = NULL;
■m_dst = NULL;
■■super.OnAbort(e);
■override void OnExit (WeaponEventBase e)
■■InventoryLocation il = new InventoryLocation;
■■if (m_magazine.GetInventory().GetCurrentInventoryLocation(il))
■■■if (GameInventory.LocationSyncMoveEntity(il, m_dst))
  ■■m_weapon.HideMagazine();
■■■■if (LogManager.IsWeaponLogEnable()) {    wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(m_v
■■else
■■■// @TODO: drop on gnd
■■■■Error("[wpnfsm] " + Ŏbject.GetDebugName(m_weapon) + " WeaponDetachingMag_Store, error - ca
---
■■}
■■else
■■■Error("[wpnfsm] " + Object.GetDebugName(m_weapon) + " WeaponDetachingMag_Store, error - car
■■m_magazine = NULL;
\blacksquare \blacksquare m_dst = NULL;
■■super.OnExit(e);
```

Toverride hool SaveCurrentESMState (ParamsWriteContext ctx)

```
// ----- WeaponEjectBullet.c - START ------
// eiect
//TODO MW delete this file
class WeaponEjectBullet_Start extends WeaponStartAction
{ };
class WeaponEjectBullet_Cartridge extends WeaponStateBase
■Magazine m_dstMagazine; /// destination of the cartridge
■override void OnEntry (WeaponEventBase e)
■super.OnEntry(e);
■■DayZPlayer p = e.m_player;
■■int mi = m_weapon.GetCurrentMuzzle();
■■ejectBulletAndStoreInMagazine(m_weapon, mi, m_dstMagazine, p); // MP-safe
■override void OnAbort (WeaponEventBase e)
■■m_dstMagazine = NULL;
■■super.OnAbort(e);
•}
■override void OnExit (WeaponEventBase e)
■■m_dstMagazine = NULL;
■■super.OnExit(e);
class WeaponEjectBullet_Cartridge_W4T extends WeaponEjectBullet_Cartridge
■override bool IsWaitingForActionFinish () { return true; }
class WeaponEjectBullet extends WeaponStateBase
■WeaponActions m_action;
■int m_actionType;
■Magazine m_dstMagazine; /// destination of the cartridge
■ref WeaponEjectBullet_Start m_start;
■ref WeaponEjectBullet_Cartridge_W4T m_eject; // @TODO: workaround for missing BH event
■ref BulletHide_W4T m_hideB;
■ref WeaponChamberFromAttMag_W4T m_chamber;
■void WeaponEjectBullet (Weapon_Base w = NULL, WeaponStateBase parent = NULL, WeaponActions
■■m_action = action;
■m_actionType = actionType;
■■// setup nested state machine
■■m_start = new WeaponEjectBullet_Start(m_weapon, this, m_action, m_actionType);
■■m_eject = new WeaponEjectBullet_Cartridge_W4T(m_weapon, this); // @TODÓ: workaround for missi
```

■■m hideB - new BulletHide W4T(m weapon this):

```
----- WeaponEjectCasingAndChamberFromAttMag.c - START -------
class WeaponEjectCasing extends WeaponStateBase
■void WeaponEjectCasing (Weapon_Base w = NULL, WeaponStateBase parent = NULL) { }
■override void OnEntry (WeaponEventBase e)
■■super.OnEntry(e);
■■if (e)
■■■if (LogManager.IsWeaponLogEnable()) {    wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(m_we
■■■int mi = m_weapon.GetCurrentMuzzle();
■■■if(m_weapon.lsChamberFiredOut(mi))
■■■m_weapon.EjectCasing(mi);
■■■m_weapon.EffectBulletHide(mi);
■■■m_weapon.SelectionBulletHide();
■}
};
class WeaponEjectCasingMultiMuzzle extends WeaponStateBase
■void WeaponEjectCasingMultiMuzzle (Weapon_Base w = NULL, WeaponStateBase parent = NULL) { }
■override void OnEntry (WeaponEventBase e)
■■super.OnEntry(e);
■■if (e)
■■■if (LogManager.IsWeaponLogEnable()) {    wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(m_we
■■■for(int i = 0; i < m_weapon.GetMuzzleCount(); i++)
■■■if(m_weapon.lsChamberFiredOut(i))
■■■■■m_weapon.EjectCasing(i);
■■■■m_weapon.EffectBulletHide(i);
■■■■m_weapon.HideBullet(i);
■■■■}
| | |
■override bool IsWaitingForActionFinish()
■■return false;
■}
};
class WeaponEjectCasing_W4T extends WeaponEjectCasingMultiMuzzle
■override bool IsWaitingForActionFinish () { return true; }
};
class WeaponEjectAllMuzzles extends WeaponStateBase
```

■Manazine m_dstManazine

```
// ----- WeaponFire.c - START ------
// fire
class WeaponDryFire extends WeaponStartAction
float m_dtAccumulator;
■override void OnEntry (WeaponEventBase e)
■■super.OnEntry(e);
■■if (e)
\blacksquare m_dtAccumulator = 0;
■■m_weapon.ResetBurstCount();
■override bool IsWaitingForActionFinish () { return true; }
■override void OnUpdate (float dt)
■m_dtAccumulator += dt;
■■DayZPlayer p;
■■Class.CastTo(p, m_weapon.GetHierarchyParent());
■ if (p)
■■■HumanInputController hic = p.GetInputController();
■■■int muzzleIndex = m_weapon.GetCurrentMuzzle();
■■■float reloadTime = m_weapon.GetReloadTime(muzzleIndex);
■■■if (hic.lsAttackButton() && m_dtAccumulator >= reloadTime)
■■■if (m_weapon.CanProcessWeaponEvents())
■■■■■m_weapon.ProcessWeaponEvent(new WeaponEventDryFireTimeout(p));
——}
|
■override void OnExit (WeaponEventBase e)
■m_dtAccumulator = 0;
■■super.OnExit(e);
};
class WeaponFire extends WeaponStartAction
■float m_dtAccumulator;
■override bool IsWaitingForActionFinish () { return true; }
■override void OnEntry (WeaponEventBase e)
■if (e)
■■m_dtAccumulator = 0;
■■■if (LogManager.IsWeaponLogEnable()) { wpnPrint("[wpnfsm] " + Object.GetDebugName(m_weapon)
■■■//m_weapon.Fire();
```

■■int mi – m. weanon GetCurrentMuzzle().

```
// ----- WeaponFireAndChamberNext.c - START -------
class WeaponFireAndChamberNext extends WeaponStateBase
■WeaponActions m_action;
■int m_actionType;
float m_dtAccumulator;
■ref WeaponFire m_fire;
■void WeaponFireAndChamberNext (Weapon_Base w = NULL, WeaponStateBase parent = NULL, Weap
■■m_action = action;
■■m_actionType = actionType;
■■// setup nested state machine
■■m_fire = new WeaponFireAndChamber(m_weapon, this, m_action, m_actionType);
■■// events
■■WeaponEventBase _fin_ = new WeaponEventHumanCommandActionFinished;
■■WeaponEventAnimBulletEject __be_ = new WeaponEventAnimBulletEject;
■■WeaponEventReloadTimeout __to_ = new WeaponEventReloadTimeout;
■■m_fsm = new WeaponFSM(this); // @NOTE: set owner of the submachine fsm
■■// transitions
■■m_fsm.AddTransition(new WeaponTransition(m_fire, _fin_, NULL));
■■m_fsm.AddTransition(new WeaponTransition(m_fire, __to_, NULL));
■■m_fsm.SetInitialState(m_fire);
■}
■override void OnEntry (WeaponEventBase e)
■■super.OnEntry(e);
■■if (e)
■■m_dtAccumulator = 0;
■override void OnUpdate (float dt)
■■m_dtAccumulator += dt;
■■DayZPlayerImplement p;
■■Class.CastTo(p, m_weapon.GetHierarchyParent());
■■if( p )
■■HumanInputController hic = p.GetInputController();
■■■int muzzleIndex = m_weapon.GetCurrentMuzzle();
■■■float reloadTime = m_weapon.GetReloadTime(muzzleIndex);
■■■if ( m_dtAccumulator >= reloadTime && ( hic.lsAttackButton() || (m_weapon.GetBurstCount() < m_weapon.GetBurstCount() < m_weap
  ■■■if (m_weapon.CanProcessWeaponEvents())
      ■■■m_weapon.ProcessWeaponEvent(new WeaponEventReloadTimeout(p));
```

```
----- WeaponFireAndChamberNextFromInnerMag.c - START ------
class WeaponFireAndChamberNextFromInnerMag extends WeaponStateBase
■WeaponActions m_action;
■int m_actionType;
float m_dtAccumulator;
■ref WeaponFire m_fire;
■void WeaponFireAndChamberNextFromInnerMag (Weapon_Base w = NULL, WeaponStateBase parent
■■m_action = action;
■■m_actionType = actionType;
■■// setup nested state machine
■■m_fire = new WeaponFireAndChamber(m_weapon, this, m_action, m_actionType);
■■// events
■■WeaponEventBase _fin_ = new WeaponEventHumanCommandActionFinished;
■■WeaponEventAnimBulletEject __be_ = new WeaponEventAnimBulletEject;
■■WeaponEventReloadTimeout __to_ = new WeaponEventReloadTimeout;
■■m fsm = new WeaponFSM(this); // @NOTE: set owner of the submachine fsm
■■// transitions
■■m_fsm.AddTransition(new WeaponTransition(m_fire, _fin_, NULL));
■■m_fsm.AddTransition(new WeaponTransition(m_fire, __to_, NULL));
■■m_fsm.SetInitialState(m_fire);
■}
■override void OnEntry (WeaponEventBase e)
■super.OnEntry(e);
■■if (e)
■■m_dtAccumulator = 0;
■override void OnUpdate (float dt)
■■m_dtAccumulator += dt;
■■DayZPlayer p;
■■Class.CastTo(p, m_weapon.GetHierarchyParent());
■■if( p )
■■■HumanInputController hic = p.GetInputController();
■■■int muzzleIndex = m_weapon.GetCurrentMuzzle();
■■■float reloadTime = m_weapon.GetReloadTime(muzzleIndex);
■■■if (hic.lsAttackButton() && m_dtAccumulator >= reloadTime)
■■■if (m_weapon.CanProcessWeaponEvents())
weapon.ProcessWeaponEvent(new WeaponEventReloadTimeout(p));
| ||
■}
■override void OnExit (WeaponEventBase e)
```

■■m_dtAccumulator = 0;

```
// ----- WeaponFireLast.c - START -----
class WeaponFireLast extends WeaponStateBase
■WeaponActions m_action;
■int m_actionType;
■float m_dtAccumulator;
■ref WeaponFireWithEject m_fire;
■void WeaponFireLast (Weapon_Base w = NULL, WeaponStateBase parent = NULL, WeaponActions act
■■m_action = action;
■■m_actionType = actionType;
■■// setup nested state machine
■■m_fire = new WeaponFireWithEject(m_weapon, this, m_action, m_actionType);
■■// events
■■WeaponEventBase _fin_ = new WeaponEventHumanCommandActionFinished;
■■WeaponEventReloadTimeout __to_ = new WeaponEventReloadTimeout;
■■m_fsm = new WeaponFSM(this); // @NOTE: set owner of the submachine fsm
■■// transitions
■■m_fsm.AddTransition(new WeaponTransition(m_fire, _fin_, NULL));
■■m_fsm.AddTransition(new WeaponTransition(m_fire, __to_, NULL));
■■m_fsm.SetInitialState(m_fire);
■}
■override void OnEntry (WeaponEventBase e)
■ super.OnEntry(e);
■■if (e)
■■■m_dtAccumulator = 0;
■override void OnExit (WeaponEventBase e)
■m_dtAccumulator = 0;
■■super.OnExit(e);
};
// ----- WeaponFireLast.c - END -----
```

```
// ----- WeaponFSM.c - START ------
/**@class■■WeaponFSM
    @brief■■weapon finite state machine
class WeaponFSM extends HFSMBase<WeaponStateBase, WeaponEventBase, WeaponActionBase, We
 private static const int MAX_SYNCHRONIZE_ATTEMPTS = 12;
■ private static const int MIN_SYNCHRONIZE_INTERVAL = 3000; // ms
■ private static const int RESET_SYNCHRONIZE_THRESHOLD = 3600000; // ms
■private int m_SynchronizeAttempts;
■private int m_LastSynchronizeTime;
■protected int m_NextStateId = 0; /// counter for InternalID: each state in a fsm is assigned an unique num
■protected ref array<WeaponStateBase> m_UniqueStates = new array<WeaponStateBase>; /// unique lis
■protected void SetInternalID(WeaponStateBase state)
■if (state && state.GetInternalStateID() == -1)
■■state.SetInternalStateID(m_NextStateId);
■■■//if (LogManager.IsWeaponLogEnable()) { wpnDebugSpam("[wpnfsm] " + Object.GetDebugName(m_
■■m_UniqueStates.Insert(state);
■■■++m_NextStateId;
——}
|
■/**@fn■■AddTransition
■ * @brief■adds transition into transition table
* As a side effect registers the state(s) into m_UniqueStates
■override void AddTransition(FSMTransition<WeaponStateBase, WeaponEventBase, WeaponActionBase
■ super.AddTransition(t);
■■SetInternalID(t.m_srcState);
■■SetInternalID(t.m_dstState);
■override protected ProcessEventResult ProcessLocalTransition(FSMTransition<WeaponStateBase, Wea
■ProcessEventResult res = super.ProcessLocalTransition(t, e);
■■ValidateAndRepair();
■ return res;
■override WeaponStateBase ProcessAbortEvent(WeaponEventBase e, out ProcessEventResult result)
■■WeaponStateBase res = super.ProcessAbortEvent(e, result);
■■ValidateAndRepair();
■ return res;
■override protected ProcessEventResult ProcessAbortTransition(FSMTransition<WeaponStateBase, WeaponStateBase, WeaponStateBas
■ProcessEventResult res = super.ProcessAbortTransition(t, e);
 ■■ValidateAndRepair();
```

■ return res:

```
// ----- WeaponInventory.c - START -----
/**@class■■WeaponInventory
 class WeaponInventory: ItemInventory
proto native bool TryFireWeapon(EntityAl weapon, int muzzleIndex);
// ----- WeaponInventory.c - END -----
// -----
// ----- WeaponManager.c - START -----
class WeaponManager
■const float MAX_DROP_MAGAZINE_DISTANCE_SQ = 4;
■protected PlayerBase ■■■■■m_player;
■protected int■■■■■■m_LastAcknowledgmentID;
■protected int ■■■■■■■■m_PendingWeaponActionAcknowledgmentID;
■protected Magazine ■■■■■■■ PendingTargetMagazine;
■protected ref InventoryLocation
■TargetInventoryLocation;
■protected int ■■■■■■■■■■■■■■■■■ PendingWeaponAction;
■protected ref InventoryLocation
■■■m_PendingInventoryLocation;
■protected bool■■■■■■m_canEnd;
protected bool■■■■■■m_justStart;
■protected bool■■■■■■m_InProgress;
■protected bool■■■■■■■ IsEventSended:
■protected bool■■■■■■■m_WantContinue;
protected bool
■protected bool■■■■■■m_InOptic;
■protected bool ■■■■■■m_readyToStart;
■protected Weapon_Base■■■■■m_WeaponInHand;
■protected MagazineStorage
■■■■m_MagazineInHand;
■ protected ActionBase ■ ■ ■ ■ ControlAction:
■protected int ■■■■■■■m_ForceEjectBulletTimestamp;
■ protected const int ■■■■■FORCE_EJECT_BULLET_TIMEOUT = 2000;
#ifdef DIAG_DEVELOPER■
■protected int ■■■■■■■■■ BurstOption;
#endif
■//Reload
■protected ref array<Magazine>■■■m_MagazinePilesInInventory;
■protected ref array<MagazineStorage>■m_MagazineStorageInInventory;
■protected ref array<Magazine>■■■m_SuitableMagazines;
■protected Magazine■■■■■■■ PreparedMagazine;
```

```
// ----- WeaponParticles.c - START ------
■Author: Boris Vacula
■For documentation go to: DayZ Confluence -> How-to articles -> Weapon muzzle flash particle system c
■This system plays effect(s) on any weapon that is fired/jammed/ruined/...
class WeaponParticlesBase // This class represents every particle effect you see in config within OnFire or
■bool■■■m_IlluminateWorld;
■bool■■■m_lgnorelfSuppressed;
■bool■■■m_OnlyIfBoltIsOpen;
■int ■■■m_MuzzleIndex;
■int ■■■m_OverrideParticle;
■int ■■■m_OnlyWithinHealthLabelMin;
■int ■■■m_OnlyWithinHealthLabelMax;
■float ■■■m_OnlyWithinOverheatLimitsMin;
■float■■■m_OnlyWithinOverheatLimitsMax;
■float ■■■m_OnlyWithinRainLimitsMin;
■float■■■m_OnlyWithinRainLimitsMax;
■string ■■■m_OverrideDirectionPoint;
■string ■■■m_OnlyIfBulletIs;
■string ■■■m_OnlyIfWeaponIs;
■string ■■■m_OverridePoint;
■vector ■■■m_OverrideDirectionVector;
■vector ■■■m_PositionOffset;
■string ■■■m_Name;
■// ■■PRELOAD EVERYTHING
void WeaponParticlesBase(ItemBase muzzle_owner, string config_OnFire_entry)
■■m_Name = config_OnFire_entry;
■■// ignorelfSuppressed
■■m_IgnorelfSuppressed = GetGame().ConfigGetFloat(string.Format("%1 ignorelfSuppressed", m_Name
■■// onlyIfBoltIsOpen
■■m_OnlyIfBoltIsOpen = GetGame().ConfigGetFloat(string.Format("%1 onlyIfBoltIsOpen", m_Name));
■■// illuminateWorld
■■m_IlluminateWorld = GetGame().ConfigGetFloat(string.Format("%1 illuminateWorld", m_Name));
■■m MuzzleIndex = -1;
■■if (GetGame().ConfiglsExisting(string.Format("%1 muzzleIndex", m_Name)))
■■■m_MuzzleIndex = GetGame().ConfigGetInt(string.Format("%1 muzzleIndex", m_Name));
■■// onlylfWeaponIs
■■m_OnlyIfWeaponIs = "";
■■GetGame().ConfigGetText(string.Format("%1 onlylfWeaponls", m_Name), m_OnlylfWeaponls);
■■// onlylfBulletIs
■■m_OnlyIfBulletIs = "":
```

GetGame() ConfigGetText(string Format("%1 onlylfRulletIs" m. Name), m. OnlylfRulletIs):

```
// rechamber (== eject cartridge + load another + store the old one)
class WeaponRechamber extends WeaponStateBase
■int m_actionEject;
■int m_actionTypeEject;
■int m_actionLoad;
■int m_actionTypeLoad;
■Magazine m_dstMagazine; /// destination of the ejected cartridge
■Magazine m_srcMagazine; /// source of the loaded cartridge
■ref WeaponEjectBullet m_eje;
■ref WeaponChambering m_loa;
■void WeaponRechamber (Weapon_Base w = NULL, WeaponStateBase parent = NULL, int actionEject =
■■m_actionEject = actionEject;
m_actionTypeEject = actionTypeEject;
■■m_actionLoad = actionLoad;
m_actionTypeLoad = actionTypeLoad;
■■// setup nested state machine
■■m_eje = new WeaponEjectBullet(m_weapon, this, m_actionEject, m_actionTypeEject);
■■m_loa = new WeaponChambering(m_weapon, this, m_actionLoad, m_actionTypeLoad);
■■WeaponEventBase _fin_ = new WeaponEventHumanCommandActionFinished;
■■m_fsm = new WeaponFSM(this); // @NOTE: set owner of the submachine fsm
■■m_fsm.AddTransition(new WeaponTransition(m_eje, _fin_, m_loa));
m_fsm.AddTransition(new WeaponTransition(m_loa, _fin_, NULL));
■■m_fsm.SetInitialState(m_eje);
■}
■override void OnEntry (WeaponEventBase e)
[
■if (e)
■■■if (LogManager.IsWeaponLogEnable()) {    wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(m_we
■■■m_srcMagazine = e.m_magazine;
■■■m_loa.m_srcMagazine = m_srcMagazine;
■■■// prepare magazine for ejected ammo
■■■int mi = m_weapon.GetCurrentMuzzle();
■■■string magazineTypeName = m_weapon.GetChamberedCartridgeMagazineTypeName(mi);
■■float damage = 0.0;
■■■string type;
■■■if (m_weapon.GetCartridgeInfo(mi, damage, type))
■■■■m_dstMagazine = DayZPlayerUtils.SelectStoreCartridge(e.m_player, m_weapon, mi, m_srcMagazi
■■■if (!m_dstMagazine)
■■■■■Error("[wpnfsm] " + Object.GetDebugName(m_weapon) + " WeaponRechamber - error, cannot p
```

■■■e.m_magazine = m_dstMagazine; // @NOTE: override event mag - @TODO

```
---- WeaponReplacingMagAndChamberNext.c - START ------------
/**@class■■DetachOldMagazine
* @brief■■detaches old magazine from weapon and stores it in left hand (LH)
class DetachOldMagazine extends WeaponStateBase
■Magazine m_oldMagazine; /// magazine that will be detached
■ref InventoryLocation m_newDst;
■void DetachOldMagazine (Weapon_Base w = NULL, WeaponStateBase parent = NULL)
■■m_oldMagazine = NULL;
\blacksquare \blacksquare m_newDst = NULL;
■override void OnEntry (WeaponEventBase e)
■super.OnEntry(e);
■override void OnAbort (WeaponEventBase e)
■■super.OnAbort(e);
■■m_oldMagazine = NULL;
\blacksquare \blacksquare m_newDst = NULL;
■}
■override void OnExit (WeaponEventBase e)
■■if (m_oldMagazine)
■■InventoryLocation il = new InventoryLocation();
■■■e.m_player.GetInventory().FindFreeLocationFor( m_oldMagazine , FindInventoryLocationType.CAR(
■■■if (!m_newDst || !m_newDst.lsValid() || m_newDst.GetType() == InventoryLocationType.GROUND)
  I■■if (DayZPlayerUtils.HandleDropMagazine(e.m_player, m_oldMagazine))
  ■■■if (LogManager.IsWeaponLogEnable()) {    wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(m
 I■■■■Error("[wpnfsm] " + Object.GetDebugName(m_weapon) + " DetachOldMagazine, error - cannot d
 ■else
  I■■InventoryLocation oldSrc = new InventoryLocation();
  ■■m_oldMagazine.GetInventory().GetCurrentInventoryLocation(oldSrc);
  I■■if (GameInventory.LocationSyncMoveEntity(oldSrc, m_newDst))
  ■■■if (LogManager.IsWeaponLogEnable()) {    wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(m
    ∎else
    I■■Error("[wpnfsm] " + Object.GetDebugName(m_weapon) + " DetachOldMagazine, error - cannot re
```

```
// ----- WeaponStableState.c - START -------
/**@class■■WeaponStableState
  @brief
   represents weapon's stable state (i.e. the basic states that the weapon will spend the most time
 Stable states have associated animation states that they supposed to be in.
 If they are not, the SetWeaponAnimState is called on the weapon in order to
 set to required (configured) state
 @NOTE: OnExit from stable state, the weapon's animation state (@see
* Weapon_Base::m_weaponAnimState) is set to -1 (unknown) In case of action
* abort the final stable state is forced to set proper animation state
* according to configuration (@see m_animState)
enum MuzzleState
■//! UNKNOWN
■U■= -1.
■//! EMPTY
\blacksquare E \blacksquare = 0.
■//! FIRED
■F■= 1,
■//! LOADED
■L■= 2
class WeaponStableState extends WeaponStateBase
■int m_animState;
■ref array<MuzzleState> m_muzzleHasBullet = new array<MuzzleState>();
■void WeaponStableState(Weapon_Base w = NULL, WeaponStateBase parent = NULL, int anim_state =
■{
m_animState = anim_state;
■■InitMuzzleArray();
■■ValidateMuzzleArray();
■void SyncAnimState()
■{
■■int curr = m_weapon.GetWeaponAnimState();
■■if (curr != m_animState)
■■■//fsmDebugSpam("[wpnfsm] " + Object.GetDebugName(m_weapon) + " synchronizing anim state: " +
■■■DayZPlayer p;
■■■if (Class.CastTo(p, m_weapon.GetHierarchyParent()))
HumanCommandWeapons hcw = p.GetCommandModifier_Weapons();
■■■■if (hcw)
■■■hcw.SetInitState(m_animState);
TEMPORAL SET Weapon Anim State (m_anim State);
■■■■fsmDebugSpam("[wpnfsm] " + Object.GetDebugName(m_weapon) + " state=" + m_weapon.GetC
■■■else
■■■■Human wpnOwner = Human.Cast(m_weapon.GetHierarchyRootPlayer());
```

■■■■HumanCommandWeapons StaticSetInitState(wpnOwner m. animState)

```
----- WeaponStartAction.c - START ------
/**@class ■WeaponStartAction
 @brief
simple class starting animation action specified by m_action and m_actionType
class WeaponStartAction extends WeaponStateBase
■WeaponActions m_action; /// action to be played
■int m_actionType; /// specific action sub-type
■void WeaponStartAction (Weapon_Base w = NULL, WeaponStateBase parent = NULL, WeaponActions
■ m_action = action;
■m_actionType = actionType;
■override void OnEntry (WeaponEventBase e)
■■super.OnEntry(e);
■■if (e)
■■■if (e.m_player)
 ■■■HumanCommandWeapons hcw = e.m_player.GetCommandModifier_Weapons();
■■■if (hcw)
■■■■HumanCommandAdditives ad = e.m_player.GetCommandModifier_Additives();
  ∎■■if (ad)
■■■■■ad.CancelModifier();
TEMPORAL StartAction(m_action, m_actionType);
■■■■■if (hcw.GetRunningAction() == m_action && hcw.GetRunningActionType() == m_actionType)
  ■■■■if (LogManager.IsWeaponLogEnable()) {    wpnDebugPrint("HCW: playing A=" + typename.Enum
Example lse
■■■■■■Error("HCW: NOT playing A=" + typename.EnumToString(WeaponActions, m_action) + " AT=" -
 ■■else
■■■■■if (LogManager.IsWeaponLogEnable()) {  wpnDebugPrint("---: remote playing A=" + typename.Enu
else
----
■■■if (LogManager.IsWeaponLogEnable()) { wpnDebugPrint("---: warning, no player wants to play A="
■override void OnExit (WeaponEventBase e)
■■super.OnExit(e);
```

// ----- WeaponStartAction c - FND ------

```
// ----- WeaponStateBase.c - START ------
/**@class■WeaponStateBase
  @brief

erepresent weapon state base
 Class comes with entry/update/abort/exit hooks that can be overriden in custom states
 Class is ready for hierarchic composition, i.e. this state having a sub-machine running
* under hood. If no m_fsm member is configured, class acts as ordinary plain
* finite machine state.
class WeaponStateBase
■Weapon_Base m_weapon; /// weapon that this state relates to
■WeaponStateBase m_parentState; /// hierarchical parent state of this state (or null)
■ref WeaponFSM m_fsm; /// nested state machine (or null)
■int m_InternalID = -1; /// internal state id used for load/restore
■void WeaponStateBase (Weapon_Base w = NULL, WeaponStateBase parent = NULL) { m_weapon = w
■/**@fn■■SetParentState
* @brief allows construction of hierarchical state machine
woid SetParentState (WeaponStateBase parent) { m_parentState = parent; }
■/**@fn■■GetParentState
■ * @return■state that owns this sub-state (or null if plain state)
■WeaponStateBase GetParentState () { return m_parentState; }
■bool HasFSM () { return m_fsm != NULL; }
■WeaponFSM GetFSM () { return m_fsm; }
■void SetInternalStateID (int i) { m_InternalID = i; }
■int GetInternalStateID () { return m_InternalID; }
■bool SaveCurrentFSMState (ParamsWriteContext ctx)
■{
■■if (HasFSM())
----
■if (IsIdle())
■■■if (LogManager.IsWeaponLogEnable()) {    wpnDebugSpam("[wpnfsm] " + Object.GetDebugName(m
■■■■return m_fsm.SaveCurrentFSMState(ctx);
else
■■■// if parent state is !idle (unstable) then save whole machine
■■■■if (LogManager.IsWeaponLogEnable()) { wpnDebugSpam("[wpnfsm] " + Object.GetDebugName(m_
■■■■return m_fsm.SaveCurrentUnstableFSMState(ctx);
}
■■return false;
■ return true;
■}
■bool LoadCurrentFSMState (ParamsReadContext ctx, int version)
■■if (HasFSM())
```

■■if (IsIdIe())

```
----- WeaponStateJammed.c - START -----
/**@class■WeaponStateJammed
 ©brief■handle jamming state set jam/unjam state for weapon
class WeaponStateJammed extends WeaponStableState
`■/**@fn■■OnEntry
■ * @brief called upon entry to state
■ * @NOTE■if state has (non-running) sub-machine, it's started on entry
■ * @param[in] e■the event that triggered transition to this state
■override void OnEntry (WeaponEventBase e)
■ super.OnEntry(e);
■■m_weapon.SetJammed(true);
■/**@fn■■OnExit
 * @brief called on exit from state
■ * @param[in] e■the event that triggered transition from this state
■override void OnExit (WeaponEventBase e)
■■super.OnExit(e):
■■//m_weapon.SetJammed(false);
};
// ----- WeaponStateJammed.c - END -----
// ----- WeaponUnjamming.c - START -----
class WeaponChamberFromAttMag_W4T extends WeaponChamberFromAttMag
■override bool IsWaitingForActionFinish () { return true; }
class WeaponChamberFromInnerMag_W4T extends WeaponChamberFromInnerMag
■override bool IsWaitingForActionFinish () { return true; }
class WeaponUnjamming_Start extends WeaponStartAction
float m_dtAccumulator;
■float m_jamTime;
```

■void WeaponUnjamming_Start (Weapon_Base w = NULL_WeaponStateBase parent = NULL_WeaponA

```
// ----- Weapon_Base.c - START ------
/**@class■■AbilityRecord
  <sup>⊤</sup>@brief■■pair ( action, actionType )
class AbilityRecord
■int m_action; /// corresponds to Human::actions == RELOAD, MECHANISM, ...
■int m_actionType; /// corresponds to Human::actionTypes == CHAMBERING_ONEBULLET_CLOSED, N
■void AbilityRecord (int a, int at) { m_action = a; m_actionType = at; }
enum WeaponWithAmmoFlags
■//! Attached magazine will be full and no round will be chambered
\blacksquareNONE = 0,
■//! Chambers bullets
■CHAMBER = 1,
■//! Maybe chambers bullets (sequential rng) example: 1 1 1 0 0 0
■CHAMBER_RNG = 2,
■//! Maybe chambers bullets (full random) example: 0 1 0 0 1 1
■CHAMBER_RNG_SPORADIC = 4,
■//! Randomizes the quantity of the bullets in the spawned magazine
■QUANTITY_RNG = 8,
■//! Fully randomizes the ammo type instead of picking one random for the entire mag (needs to have type
■AMMO_MAG_RNG = 16,
■//! Fully randomizes the ammo type instead of picking one random for all chambers (needs to have type and approximately provided that is a superior of the provided to th
■AMMO_CHAMBER_RNG = 32,
■//! Instead of randomizing when type is empty, it looks for the one which has the highest capacity
■MAX_CAPACITY_MAG = 64,
typedef FSMTransition<WeaponStateBase, WeaponEventBase, WeaponActionBase, WeaponGuardBase
/**@class■■Weapon_Base
   @brief■■script base for all weapons
   @NOTE: this class is bound to core-config "Weapon_Base" config class
class Weapon_Base extends Weapon
■//! Full highest capacity magazine + chambered round
■const int SAMF_DEFAULT = WeaponWithAmmoFlags.CHAMBER | WeaponWithAmmoFlags.MAX_CAF
■//! Random bullet quantity + maybe chambered round
■const int SAMF_RNG = WeaponWithAmmoFlags.CHAMBER_RNG | WeaponWithAmmoFlags.QUANTIT
■protected const float DEFAULT_DAMAGE_ON_SHOT = 0.05;
■protected ref array<ref AbilityRecord> m_abilities = new array<ref AbilityRecord>;
■■/// weapon abilities
■protected ref WeaponFSM m_fsm;■/// weapon state machine
■protected bool m_isJammed = false;
■protected bool m_LiftWeapon = false;
■protected bool m_BayonetAttached;
■protected bool m_ButtstockAttached;
■protected int m_BurstCount;
■protected int m_BayonetAttachmentIdx;
■protected int m_ButtstockAttachmentIdx;
■protected int m_weaponAnimState = -1; /// animation state the weapon is in, -1 == uninitialized
■protected int m_magazineSimpleSelectionIndex = -1;
■protected int m_weaponHideBarrelIdx = -1; //index in simpleHiddenSelections cfg array
```

Inrotected float m. DmgPerShot - 0: //default is set to zero, since C++ solution has been implemented. So

```
----- weapon_utils.c - START ----
bool pushToChamberFromAttachedMagazine(Weapon_Base weapon, int muzzleIndex)
■Magazine mag = weapon.GetMagazine(muzzleIndex);
■if (mag)
■■if (LogManager.IsWeaponLogEnable()) { wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(weapon
■■float damage;
■■string type;
■■if (mag && mag.LocalAcquireCartridge(damage, type))
■■ weapon.SelectionBulletShow();
  ■■if (LogManager.IsWeaponLogEnable()) {    wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(weap
■■else
■■■Error("[wpnfsm] " + Object.GetDebugName(weapon) + " chamberFromAttachedMagazine, error - car
■■if (weapon.PushCartridgeToChamber(muzzleIndex, damage, type))
■■■if (LogManager.IsWeaponLogEnable()) {    wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(weap
■■■return true;
■■■Error("[wpnfsm] " + Object.GetDebugName(weapon) + " chamberFromAttachedMagazine, error - car
else
■Error("[wpnfsm] " + Object.GetDebugName(weapon) + " chamberFromAttachedMagazine, error - no m
■return false;
bool pushToChamberFromInnerMagazine(Weapon_Base weapon, int muzzleIndex)
■if (LogManager.IsWeaponLogEnable()) { wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(weapon)
■float damage;
string type;
■if (weapon.PopCartridgeFromInternalMagazine(muzzleIndex,damage, type))
■■weapon.SelectionBulletShow();
■■if (LogManager.IsWeaponLogEnable()) { wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(weapon
■■Error("[wpnfsm] " + Object.GetDebugName(weapon) + " chamberFromInnerMagazine, error - cannot ta
■if (weapon.PushCartridgeToChamber(muzzleIndex, damage, type))
■■if (LogManager.IsWeaponLogEnable()) { wpnDebugPrint("[wpnfsm] " + Object.GetDebugName(weapon
■ return true;
else
■■Error("[wpnfsm] " + Object.GetDebugName(weapon) + " chamberFromInnerMagazine, error - cannot lo
■return false;
void ejectBulletAndStoreInMagazine(Weapon_Base weapon, int muzzleIndex, Magazine mag, DayZPlaye
```

```
// ----- Weather.c - START ------
■All classes related to game weather
■Weather phenomenon type
enum EWeatherPhenomenon
■OVERCAST,
■FOG,
■RAIN
//-----
■Weather phenomenon
class WeatherPhenomenon
private void WeatherPhenomenon() {}
■private void ~WeatherPhenomenon() {}
■//! Returns type of this phenomenon.
■proto native EWeatherPhenomenon GetType();
■//! Returns actual value of phenomenon in range <0, 1>.
■proto native float GetActual();
■//! Returns a forecast value the phenomenon is heading towards.
■proto native float GetForecast();
■■\brief Sets the forecast.
■■\param forecast Desired forecast value that should be met in given time.
                   A time of the next change (how long it takes in seconds to interpolate to given value).
■■\param time
■■\param minDuration A minimal time in seconds the change will last.
■proto native void Set( float forecast, float time = 0, float minDuration = 0 );
■//! Reads the time in seconds when the next forecast will be computed.
■proto native float GetNextChange();
■//! Sets the time in seconds when the next forecast will be computed.
■proto native void SetNextChange( float time );
/*!
■■\brief Reads limits of this phenomenon.
■■\param fnMin Function minimum (in range <0, 1>).
■■\param fnMax Function maximum (in range <0, 1>).
■proto void GetLimits( out float fnMin, out float fnMax );
■■\brief Sets limits of this phenomenon.
```

■■Actual value of this phenomenon will be always held in range <fnMin_fnMay>

```
// ----- WeldingMask.c - START ------
class WeldingMask extends ClothingBase
■override array<int> GetEffectWidgetTypes()
■ return {EffectWidgetsTypes.HELMET_OCCLUDER/*,EffectWidgetsTypes.HELMET_BREATH*/};
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■Clothing eyewear = Clothing.Cast(parent.FindAttachmentBySlotName("Eyewear"));
■■if ( eyewear && eyewear.ConfigGetBool("isStrap") )
■■return false;
--}
■■Clothing mask = Clothing.Cast(parent.FindAttachmentBySlotName("Mask"));
■■if ( mask && mask.ConfigGetBool("noHelmet") && !SantasBeard.Cast(mask))
■ return false;
——}
■■return true;
■override int GetGlassesEffectID()
■ return PPERequesterBank.REQ_GLASSESWELDING;
// ----- WeldingMask.c - END -----
// ----- Well.c - START -----
class Well extends BuildingSuper
■override bool IsBuilding()
■■return false;
■override bool IsWell()
■ return true;
■override float GetLiquidThroughputCoef()
```

■■return LIOUID THROUGHPUT WELL:

```
// ----- Wellies_ColorBase.c - START ------
class Wellies_ColorBase extends Clothing {};
class Wellies_Black extends Wellies_ColorBase {};
class Wellies_Brown extends Wellies_ColorBase {};
class Wellies_Green extends Wellies_ColorBase {}; class Wellies_Grey extends Wellies_ColorBase {};
// ----- Wellies_ColorBase.c - END ------
// ----- Wet.c - START -----
class WetMdfr: ModifierBase
■override void Init()
■ TrackActivatedTime = false;
■ m_ID ■ = eModifiers.MDF_WETNESS;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■override bool ActivateCondition(PlayerBase player)
■■if (player.GetStatWet().Get() == player.GetStatWet().GetMax())
■■■return true:
■■return false;
■override bool DeactivateCondition(PlayerBase player)
■■if (player.GetStatWet().Get() == player.GetStatWet().GetMin())
■■return true;
■■return false;
■override void OnActivate(PlayerBase player)
■■if( player.m_NotifiersManager ) player.m_NotifiersManager.ActivateByType(eNotifiers.NTF_WETNESS
■override void OnReconnect(PlayerBase player)
■this.OnActivate(player);
•}
■override void OnDeactivate(PlayerBase player)
```

■■if(player.m_NotifiersManager) player.m_NotifiersManager.DeactivateByType(eNotifiers.NTF_WETNE

```
// ----- WetnessNotfr.c - START -----
class WetnessNotfr: NotifierBase
■void WetnessNotfr(NotifiersManager manager)
■ m_Active = false;
■override int GetNotifierType()
■ return eNotifiers.NTF_WETNESS;
■override void DisplayBadge()
■ DisplayElementBadge dis_elm = DisplayElementBadge.Cast(GetVirtualHud().GetElement(eDisplayEle
■■if( dis_elm )
----
■■dis_elm.SetLevel(eBadgeLevel.FIRST);
■override void HideBadge()
■ DisplayElementBadge dis_elm = DisplayElementBadge.Cast(GetVirtualHud().GetElement(eDisplayEle
■■if( dis_elm )
■■dis_elm.SetLevel(eBadgeLevel.NONE);
==}
// ----- WetnessNotfr.c - END ------//
// ----- Whetstone.c - START -----
class Whetstone: Inventory_Base {};
// ----- Whetstone.c - END ------
```

```
// ----- WidgetEventHandler.c - START ------
class WidgetEventHandler: ScriptedWidgetEventHandler
■private ref static WidgetEventHandler s_instance;
■protected ref map<Widget, ref Param> m_OnMouseButtonDownRegister;
maprotected ref map<Widget, ref Param> m_OnMouseButtonUpRegister;
■protected ref map<Widget, ref Param> m_OnMouseWheel;
■protected ref map<Widget, ref Param> m_OnDropReceived;
■protected ref map<Widget, ref Param> m_OnDrag;
■protected ref map<Widget, ref Param> m_OnDrop;
■protected ref map<Widget, ref Param> m_OnDraggingOver;
■protected ref map<Widget, ref Param> m_OnMouseEnter;
■protected ref map<Widget, ref Param> m_OnMouseButtonLeave;
■protected ref map<Widget, ref Param> m_OnClick;
■protected ref map<Widget, ref Param> m_OnDoubleClick;
■protected ref map<Widget, ref Param> m_OnFocus;
■protected ref map<Widget, ref Param> m_OnFocusLost;
■protected ref map<Widget, ref Param> m_OnController;
■protected ref map<Widget, ref Param> m_OnChildAdd;
■protected ref map<Widget, ref Param> m_OnChildRemove;
■static WidgetEventHandler GetInstance()
■■return s_instance;
■}
■void WidgetEventHandler()
Solution instance = this:
■■m_OnMouseButtonDownRegister = new map<Widget, ref Param>;
■■m_OnMouseButtonUpRegister = new map<Widget, ref Param>;
■■m_OnMouseWheel = new map<Widget, ref Param>;
■ OnDropReceived = new map<Widget, ref Param>;
Image: Imag
m_OnDrop = new map<Widget, ref Param>;
■■m_OnDraggingOver = new map<Widget, ref Param>;
m_OnMouseEnter = new map<Widget, ref Param>;
■■m_OnMouseButtonLeave = new map<Widget, ref Param>;
■■m OnClick = new map<Widget, ref Param>;
■■m_OnDoubleClick = new map<Widget, ref Param>;
■■m_OnFocus = new map<Widget, ref Param>;
Image: Imag
■■m_OnController = new map<Widget, ref Param>;
■■m_OnChildAdd = new map<Widget, ref Param>;
■■m_OnChildRemove = new map<Widget, ref Param>;
■void UnregisterWidget( Widget w )
■■m OnMouseButtonDownRegister.Remove(w):
■■m_OnMouseButtonUpRegister.Remove(w);
■■m_OnMouseWheel.Remove( w );
■■m_OnDropReceived.Remove( w );
■■m_OnDrag.Remove( w );
■■m_OnDrop.Remove(w);
■■m_OnDraggingOver.Remove( w );
■ m_OnMouseEnter.Remove(w);
```

■■m OnMouseButtonLeave Remove(w):

```
// ----- WidgetLayoutName.c - START ------
class WidgetLayoutName
■#ifdef PLATFORM_CONSOLE
■const string InventoryXbox■■■■= "gui/layouts/inventory_new/xbox/day_z_inventory_new.layout";
■#else
■const string InventoryNarrow■■■■= "gui/layouts/inventory_new/narrow/day_z_inventory_new.layout";
■const string InventoryMedium■■■■= "gui/layouts/inventory_new/medium/day_z_inventory_new.layout"
■const string InventoryWide■■■■= "gui/layouts/inventory_new/wide/day_z_inventory_new.layout";
 #endif
■const string HandsPreview ■■■■■ "gui/layouts/inventory_new/hands_preview.layout";
■const string InventorySlotsContainerNarrow = "gui/layouts/inventory_new/narrow/inventory_slots_conta
■const string InventorySlotsContainerMedium■= "gui/layouts/inventory_new/medium/inventory_slots_con
■const string InventorySlotsContainerWide■= "gui/layouts/inventory_new/wide/inventory_slots_container.
■const string InventorySlotsContainerXbox■= "gui/layouts/inventory_new/xbox/inventory_slots_container."
■const string CargoContainerNarrow■■■= "gui/layouts/inventory_new/narrow/cargo_container.layout";
■const string CargoContainerMedium■■■= "gui/layouts/inventory_new/medium/cargo_container.layout";
■const string CargoContainerWide■■■■= "gui/layouts/inventory_new/wide/cargo_container.layout";
■const string CargoContainerXbox■■■= "gui/layouts/inventory_new/xbox/cargo_container.layout";
■const string CargoContainerRowNarrow■■= "gui/layouts/inventory_new/narrow/cargo_container_row.layouts string CargoContainerRowMedium■■= "gui/layouts/inventory_new/medium/cargo_container_row."
■const string CargoContainerRowWide■■■= "gui/layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventory_new/wide/cargo_container_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inv
■const string CargoContainerRowXbox■■= "gui/layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventory_new/xbox/cargo_container_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inventor_row.layouts/inve
const string IconNarrow
■■■■■■= "gui/layouts/inventory_new/narrow/icon.layout";
■const string IconMedium
■■■■■■= "gui/layouts/inventory_new/medium/icon.layout";
■const string IconWide■■■■■■ "gui/layouts/inventory_new/wide/icon.layout";
■const string lconXbox■■■■■= "gui/layouts/inventory_new/xbox/icon.layout";
■const string LeftAreaNarrow■■■■■= "gui/layouts/inventory_new/narrow/left_area.layout";
■const string LeftAreaMedium■■■■■= "gui/layouts/inventory_new/medium/left_area.layout";
■const string LeftAreaWide■■■■■ "gui/layouts/inventory_new/wide/left_area.layout";
■const string LeftAreaXbox■■■■= "gui/layouts/inventory_new/xbox/left_area.layout";
■const string RightAreaNarrow
■■■= "gui/layouts/inventory_new/narrow/right_area.layout";
■const string RightAreaMedium■■■■= "gui/layouts/inventory_new/medium/right_area.layout";
■const string RightAreaWide■■■■■ "gui/layouts/inventory_new/wide/right_area.layout";
■const string RightAreaXbox■■■■■ "gui/layouts/inventory_new/xbox/right_area.layout";
■const string CollapsibleHeader■■■■= "gui/layouts/inventory_new/collapsible_header.layout";
■const string ClosableHeader■■■■= "gui/layouts/inventory_new/closable_header.layout";
■const string HandsHeader■■■■= "gui/layouts/inventory_new/hands_header.layout";
■const string HandsArea■■■■■■ "gui/layouts/inventory_new/hands_area.layout";
■ const string Container ■ "gui/layouts/inventory_new/container.layout";
■ const string CollapsibleContainer = "gui/layouts/inventory_new/collapsible_container.layout";
■ const string ClosableContainer = "gui/layouts/inventory_new/closable_container.layout";
■const string AttachmentsGroupContainer■= "gui/layouts/inventory_new/attachments_group_container.
```

// ----- WidgetLayoutName.c - END -----

```
// ----- Winchester 70.c - START ------
class Winchester70_Base : BoltActionRifle_InnerMagazine_Base
■override RecoilBase SpawnRecoilObject()
■ return new Winchester 70 Recoil (this);
■//Debug menu Spawn Ground Special
■override void OnDebugSpawn()
■■super.OnDebugSpawn();
■■EntityAl entity;
■■if ( Class.CastTo(entity, this) )
■■entity.GetInventory().CreateInInventory( "HuntingOptic" );■
■■■entity.SpawnEntityOnGroundPos("Ammo_308Win", entity.GetPosition());
——}
■}
};
// ----- Winchester70.c - END ------//
// ----- Winchester70Recoil.c - START ------
class Winchester 70 Recoil: Recoil Base
■override void Init()
■■vector point_1;
■■vector point_2;
■■vector point_3;
■■vector point_4;
■■point_1[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS)
■■point_2[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGeneratorSyncManager().GetRandomGen
■■point_3[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■point_4[0] = m_Player.GetRandomGeneratorSyncManager().GetRandomInRange(RandomGeneratorS
■■m_HandsCurvePoints.Insert(point_1);//forms a 2 dimensional spline(z is ignored)
■■m_HandsCurvePoints.Insert(point_2);
■■m_HandsCurvePoints.Insert(point_3);
■■m_HandsCurvePoints.Insert(point_4);
■■m_HandsCurvePoints.Insert("0 0 0");
■■m_HandsOffsetRelativeTime = 0.125;
 ■■m_MouseOffsetRangeMin = 80;//in degrees min
■■m_MouseOffsetRangeMax = 100;//in degrees max
■■m_MouseOffsetDistance = 1.25;//how far should the mouse travel
■■m_MouseOffsetRelativeTime = 0.0625;//[0..1] a time it takes to move the mouse the required distance
■■m_CamOffsetDistance = 0.02;
```

■■m CamOffsetRelativeTime - 0.125

```
----- WitchHat.c - START -----
class WitchHat extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
};
// ----- WitchHat.c - END -----
// ----- WitchHood.c - START -----
class WitchHood extends Clothing
■override void SetActions()
■ super.SetActions();
■■AddAction(ActionWringClothes);
// ----- WitchHood.c - END ------
// ----- WolfMask.c - START -----
class WolfMask extends ClothingBase
■override bool CanPutAsAttachment( EntityAl parent )
■if(!super.CanPutAsAttachment(parent)) {return false;}
■■bool headgear_present = false;
■■if ( parent.FindAttachmentBySlotName( "Headgear" ) )
■■ headgear_present = parent.FindAttachmentBySlotName( "Headgear" ).ConfigGetBool( "noMask" );
■■if((GetNumberOfItems() == 0 || !parent || parent.IsMan())&& !headgear_present)
■ return true;
```

```
// ----- WolfSteakMeat.c - START -----
class WolfSteakMeat extends Edible_Base
■override bool CanBeCooked()
■return true;
■override bool CanBeCookedOnStick()
■ return true;
■override bool IsMeat()
■ return true;
■override bool CanDecay()
■ return true;
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionForceFeed);
■■AddAction(ActionEatMeat);
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
// ----- WolfSteakMeat.c - END ------
// ----- WomanSuit_ColorBase.c - START ------
class WomanSuit_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
class WomanSuit_Beige extends WomanSuit_ColorBase {};
class WomanSuit_Black extends WomanSuit_ColorBase {};
class WomanSuit_Blue extends WomanSuit_ColorBase {};
```

class Woman Suit Brown extends Woman Suit Color Base

```
// ----- WoodAxe.c - START -----
class WoodAxe extends ToolBase
■override void SetActions()
■■super.SetActions();
■■//AddAction(ActionBuildPartSwitch);
■■AddAction(ÀctionMineTree);
■■AddAction(ActionMineTreeBark);
■■AddAction(ActionMineBush);
■■//AddAction(ActionRepairPart);
■■AddAction(ActionDismantlePart);
■■//AddAction(ActionBuildPart);
■■AddAction(ActionUnrestrainTarget);
■■AddAction(ActionSkinning);
// -----
// ----- WoodAxe.c - END ------
// -----
// ----- WoodBase.c - START -----
// -----
enum EHarvestType
■NORMAL,
■BARK
class WoodBase extends Plant
■static bool ■m_IsCuttable;
■static int ■■m_PrimaryDropsAmount = -1;
■static int ■■m_SecondaryDropsAmount = -1;
■static float ■m_ToolDamage = -1.0;
■static float ■m_CycleTimeOverride = -1.0;
■ static string ■ m_PrimaryOutput = ""; //some nonsensical item for debugging purposes ■ static string ■ m_SecondaryOutput = ""; //some nonsensical item for debugging purposes
■static string ■m_BarkType = "";
/*
■ bool ■m_lsCuttable;
■ int ■m_PrimaryDropsAmount = -1;
■ int ■m_SecondaryDropsAmount = -1;
■ float ■m_ToolDamage = -1.0;
■ float ■m_CycleTimeOverride = -1.0;
■ string ■m_PrimaryOutput = ""; //some nonsensical item for debugging purposes
■ string ■m_SecondaryOutput = ""; //some nonsensical item for debugging purposes
■ string ■m_BarkType = "";
*/
```

```
// ----- WoodenLog.c - START -----
class WoodenLog extends ItemBase
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionAttachToConstruction);
■■AddAction(ActionAttachOnSelection);
// -----
// ----- WoodenLog.c - END -----
// -----
// ----- WoodenPlank.c - START -----
class WoodenPlank extends ItemBase
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionClapBearTrapWithThisItem);
■■AddAction(ActionAttachToConstruction);
■■AddAction(ActionRepairCarChassis);
■■AddAction(ActionAttachOnSelection);
■}
// ----- WoodenPlank.c - END -----
// -----
// ----- WoodenStick.c - START ------
// -----
class WoodenStick extends ItemBase
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionCreateIndoorFireplace);
■■AddAction(ActionCreateIndoorOven);
■■AddAction(ActionAttach);
■■AddAction(ActionDetach);
■■AddAction(ActionAttachToConstruction);
```

```
class WoolCoat_ColorBase extends Clothing
■override void SetActions()
■ super.SetActions();
■■AddAction(ActionWringClothes):
class WoolCoat_Black extends WoolCoat_ColorBase {};
class WoolCoat_Red extends WoolCoat_ColorBase {};
class WoolCoat_Blue extends WoolCoat_ColorBase {};
class WoolCoat_Green extends WoolCoat_ColorBase {};
class WoolCoat_Beige extends WoolCoat_ColorBase {};
class WoolCoat_RedCheck extends WoolCoat_ColorBase {};
class WoolCoat_BlackCheck extends WoolCoat_ColorBase {}; class WoolCoat_BlueCheck extends WoolCoat_ColorBase {};
class WoolCoat_GreyCheck extends WoolCoat_ColorBase ();
class WoolCoat_BrownCheck extends WoolCoat_ColorBase {};
// ----- WoolCoat_ColorBase.c - END ------
// ----- workbenchApi.c - START -----
typedef int[] WBModuleDef;
typedef int[] ScriptEditor;
typedef int[] ResourceBrowser;
typedef int[] WorldEditor;
class Workbench
■static proto native WBModuleDef GetModule(string type);
■static proto native bool OpenModule(string type);
■static proto native bool CloseModule(string type);
■static proto native void Dialog(string caption, string text);
■static proto int ScriptDialog(string caption, string text, Class data);
■static proto bool SearchResources(string filter, func callback);
■static proto native int RunCmd(string command, bool wait = false);
■static proto void GetCwd(out string currentDir);
■static proto bool GetAbsolutePath(string relativePath, out string absPath):
};
class WBModuleDef
■proto native external bool SetOpenedResource(string filename);
■proto native external int GetNumContainers();
■proto native external BaseContainer GetContainer(int index = 0);
■proto external bool GetCmdLine(string name, out string value);
■proto native external bool Save();
■proto native external bool Close();
};
```

```
// ----- WorkingBoots_ColorBase.c - START -----
class WorkingBoots_ColorBase extends Clothing {};
class WorkingBoots_Grey extends WorkingBoots_ColorBase {};
class WorkingBoots_Brown extends WorkingBoots_ColorBase {};
class WorkingBoots_Green extends WorkingBoots_ColorBase {}; class WorkingBoots_Yellow extends WorkingBoots_ColorBase {};
class WorkingBoots_Beige extends WorkingBoots_ColorBase {};
// ----- WorkingBoots_ColorBase.c - END -----
// -----
// ----- WorkingGloves_ColorBase.c - START ------
class WorkingGloves_ColorBase extends Clothing {};
class WorkingGloves_Black extends WorkingGloves_ColorBase {};
class WorkingGloves_Beige extends WorkingGloves_ColorBase {};
class WorkingGloves_Brown extends WorkingGloves_ColorBase {}; class WorkingGloves_Yellow extends WorkingGloves_ColorBase {};
// ----- WorkingGloves_ColorBase.c - END ------
// -----
// ----- World.c - START -----
// -----
class World: Managed
//proto private void ~World();
■//proto private void World();
Eproto void CheckSoundObstruction(EntityAl source, bool inSource, out float obstruction, out float occlus
■proto native void GetPlayerList(out array<Man> players);
■\brief Get actual ingame world time
■■\param year
■■\param month in range <1, 12>
■■\param day in range <1, 31>
■■\param hour in range <0, 23>
■■\param minute in range <0, 59>
■■@code
■■■int year, month, day, hour, minute;
■■■GetGame().GetWorld().GetDate(year, month, day, hour, minute);
■■@endcode
*/
■proto void■■■GetDate(out int year, out int month, out int day, out int hour, out int minute);
```

```
// ----- WorldContainer_Base.c - START ------
class WorldContainer_Base extends ItemBase
}
// ----- WorldContainer_Base.c - END ------
// -----
// ----- WorldData.c - START -----
// -----
//! Keeps information about currently loaded world, like temperature
class WorldData
■protected float m_DayTemperature;
■// legacy, no longer used
■protected float m_NightTemperature;
■// legacy, no longer used
■protected Weather m_Weather;
■protected float m_EnvironmentTemperature;
■protected float m_Timer;
■protected float■m_MaxTemps[12];
■protected float m_MinTemps[12];
■protected float m_Sunrise_Jan;
■protected float m_Sunset_Jan;
■protected float m_Sunrise_Jul;
■protected float m_Sunset_Jul;
■protected ref array<vector> m_FiringPos; // Where we should fire from. On Init set the relevant data
■void WorldData()
■{
■Init();
■void Init()
■■m_DayTemperature = 10; ■// legacy, no longer used
■■m_NightTemperature = 6; ■// legacy, no longer used
■■m_Weather = g_Game.GetWeather();
■■m_EnvironmentTemperature = 12.0;
\blacksquare m_Timer = 0.0;
■ Manager Sunrise Jan = 8.54;

■ Manager Jan = 15.52;
\blacksquare m_Sunrise_Jul = 3.26;
\blacksquare \blacksquare m_Sunset_Jul = 20.73;
\blacksquarem_MaxTemps = {3,5,7,14,19,24,26,25,21,16,10,5};
\blacksquarem_MinTemps = {-3,-2,0,4,9,14,18,17,12,7,4,0};
■float GetApproxSunriseTime( float monthday )
■■if ( monthday <= 8.0 )
■■■return ( ( m_Sunrise_Jan - m_Sunrise_Jul ) / (8 - 1 ) ) * (1 - monthday ) + m_Sunrise_Jan;
```

■■■return (((monthday - 8) * (m_Sunrise_Jan - m_Sunrise_Jul)) / (13 - 8)) + m_Sunrise_Jul;

```
// ----- WorldLighting.c - START -----
class WorldLighting
■string lighting_default = "dz\\data\\lighting\\lighting_default.txt";
■string lighting_darknight = "dz\\data\\lighting\\lighting_darknight.txt";
■void WorldLighting() {}
■void ~WorldLighting() {}
■// sets global lighting config by given value (sent from server, defined in server config)■void SetGlobalLighting( int lightingID )
■■switch (lightingID)
Example case 0:
■■■GetGame().GetWorld().LoadNewLightingCfg( lighting_default );
■■■■break;
EXEcase 1:
■■■GetGame().GetWorld().LoadNewLightingCfg( lighting_darknight );
■■■break;
——}
|
/*modded class WorldLighting
protected string lighting_modded = "your\\path\\to\\lighting\\cfg.txt";
■override void SetGlobalLighting(int lightingID)
■■switch (lightingID)
■■■GetGame().GetWorld().LoadNewLightingCfg( lighting_modded );
■■■■break;
——}
// ----- WorldLighting.c - END ------
// ----- WorldsMenu.c - START -----
#ifdef GAME_TEMPLATE
[EditorAttribute("box", "GameLib/Scripted", "Worlds menu", "-0.25 -0.25 -0.25", "0.25 0.25 0.25", "255 0 0 2
class WorldsMenuClass
}
```

```
// ----- Worm.c - START -----
class Worm extends Edible_Base
■override bool CanBeCookedOnStick()
■■return false;
■override bool CanBeCooked()
■■return false;
}
■override bool IsMeat()
■ return true;
// -----
// ----- Worm.c - END -----
// ----- WoundAgent.c - START -----
class WoundAgent extends AgentBase
■static const float RESISTANCE_STAGE_1 = 1;
■static const float RESISTANCE_STAGE_2 = 0.5;
■override void Init()
■■m_Type ■■■■■= eAgents.WOUND_AGENT;
■■m_Invasibility ■■■= 0.208;//to reach 250 in 20 mins
■■m_TransferabilityIn■■= 1;
■■m_TransferabilityOut■= 0;
■■m_AntibioticsResistance = 0.5;//override in a func. GetAntiboticsResistance()
\blacksquarem_MaxCount \blacksquare \blacksquare = 500;
■■m_Potency ■■■■= EStatLevels.GREAT;
■■m_DieOffSpeed ■■■= 1;
■override float GetAntibioticsResistanceEx(PlayerBase player)
■ if(player.GetModifiersManager().IsModifierActive(eModifiers.MDF_WOUND_INFECTION1))
■■■return RESISTANCE_STAGE_1;
else
■■■return RESISTANCE_STAGE_2;
■}
■override bool GrowDuringAntibioticsAttack(PlayerBase player)
```

■if(player GetModifiersManager() IsModifierActive(eModifiers MDF_WOLIND_INFECTION1))

```
----- WoundInfection.c - START -----
class WoundInfectionMdfr: ModifierBase
■static const int AGENT_THRESHOLD_ACTIVATE = 100;
■static const int AGENT_THRESHOLD_DEACTIVATE = 20;
■void WoundInfectionMdfr()
■Error("[ERROR] :: WoundInfectionMdfr is deprecated.");
};
class WoundInfectStage1Mdfr: ModifierBase
■static const int AGENT_THRESHOLD_ACTIVATE = 1;
■static const int AGENT THRESHOLD DEACTIVATE = 250:
■static const int AGENT_THRESHOLD_FEVER = 250;
■static const int PAIN_EVENT_INTERVAL_MIN = 18;
■static const int PAIN_EVENT_INTERVAL_MAX = 26;
 ■protected float m_NextEvent;
■protected float m_Time;
■override void Init()
■■m_TrackActivatedTime■= false;
■■m_ID ■■■■= eModifiers.MDF_WOUND_INFECTION1;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■■m_SyncID■■■= eModifierSyncIDs.MODIFIER_SYNC_WOUND_INFECT_1;
■}
■override string GetDebugText()
■■return ("Activate threshold: "+AGENT_THRESHOLD_ACTIVATE + "| " +"Deativate threshold: "+AGEN
■}
■override protected bool ActivateCondition(PlayerBase player)
■■if( player.GetSingleAgentCount(eAgents.WOUND_AGENT) >= AGENT_THRESHOLD_ACTIVATE &&
■ return true;
| | |
■■else
 ■■■return false;
--}
■override protected void OnActivate(PlayerBase player)
■■player.IncreaseDiseaseCount();
■■m NextEvent = Math.RandomFloatInclusive(PAIN_EVENT_INTERVAL_MIN, PAIN_EVENT_INTERVAL_MIN, PAIN_EVENT_INTERVAL_MIN,
```

■override protected void OnDeactivate(PlayerRase player)

```
----- WoundInfection2.c - START ------
class WoundInfectStage2Mdfr: ModifierBase
■static const int AGENT_THRESHOLD_ACTIVATE = 250;
■static const int AGENT_THRESHOLD_DEACTIVATE = 0;
■static const int PAIN EVENT INTERVAL MIN = 6;
■static const int PAIN_EVENT_INTERVAL_MAX = 12;
■static const float DAMAGE_PER_SEC = 0.04;
■protected float m_NextEvent;
■protected float m_Time;
■override void Init()
■■m_TrackActivatedTime■= false;
■■m_ID ■■■■= eModifiers.MDF_WOUND_INFECTION2;
■■m_TickIntervalInactive ■= DEFAULT_TICK_TIME_INACTIVE;
■■m_TickIntervalActive ■= DEFAULT_TICK_TIME_ACTIVE;
■■m_SyncID■■■■= eModifierSyncIDs.MODIFIER_SYNC_WOUND_INFECT_2;
■override string GetDebugText()
■■return ("Activate threshold: "+AGENT_THRESHOLD_ACTIVATE + "| " +"Deativate threshold: "+AGEN
■override protected bool ActivateCondition(PlayerBase player)
■■if(player.GetSingleAgentCount(eAgents.WOUND_AGENT) >= AGENT_THRESHOLD_ACTIVATE)
■■return true;
■■else
----
■■return false;
——}
■override protected void OnActivate(PlayerBase player)
■■player.IncreaseDiseaseCount();
■■m_NextEvent = Math.RandomFloatInclusive(PAIN_EVENT_INTERVAL_MIN, PAIN_EVENT_INTERV
■■SymptomBase shivers = player.GetSymptomManager().QueueUpSecondarySymptomEx(SymptomIDs
■■■if ( shivers )
CachedObjectsParams.PARAM1_INT.param1 = 3;
■■■shivers.SetParam(CachedObjectsParams.PARAM1_INT);
■override protected void OnDeactivate(PlayerBase player)
```

■ player GetSymptomManager() RemoveSecondarySymptom(SymptomIDs SYMPTOM_HAND_SHIVER

■■player.DecreaseDiseaseCount():

```
// ----- Wreck_MI8.c - START -----
//New russian helicopter crash site class Wreck_Mi8_Crashed extends CrashBase
■void Wreck_Mi8_Crashed()
■■if (!GetGame().IsDedicatedServer())
■■■m_ParticleEfx = ParticleManager.GetInstance().PlayOnObject(ParticleList.SMOKING_HELI_WRECK
|
//Old Russian helicopter crash site
class Wreck_Mi8 extends CrashBase
}
// ----- Wreck_MI8.c - END -----
// -----
// ----- Wreck_SantasSleigh.c - START ------
//Christmas Event: Santa's Sleigh class Wreck_SantasSleigh extends CrashBase
■XmasSleighLight ■■m_SleighLight;
■int m_MaxDeersAmount = 4;
■int m_MinDeersAmount = 2;
■int m_MaxDeersSpawnRange = 25;
■int m_MinDeersSpawnRange = 5;
■void Wreck_SantasSleigh()
■■if (!GetGame().IsDedicatedServer())
■■■//particles - Aurora trail
■■■m_ParticleEfx = ParticleManager.GetInstance().PlayOnObject(ParticleList.AURORA_SANTA_WREC
■■■//lights - green light
■■■m_SleighLight = XmasSleighLight.Cast( ScriptedLightBase.CreateLight( XmasSleighLight, Vector(0,
■■■m_SleighLight.AttachOnMemoryPoint(this, "light");
|
// needs to have the soundset registered in CrashBase.Init()override string GetSoundSet()
■■return "SledgeCrash_Distant_SoundSet";
```

```
// ----- Wreck_UH1Y.c - START ------
class Wreck_UH1Y extends CrashBase
■void Wreck_UH1Y()
■■if (!GetGame().IsDedicatedServer())
■■■m_ParticleEfx = ParticleManager.GetInstance().PlayOnObject(ParticleList.SMOKING_HELI_WRECK
■}
// ----- Wreck_UH1Y.c - END -----
// -----
// ----- Wrench.c - START ------
// -----
class Wrench: Inventory_Base
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionLockAttachment);
■■AddAction(ActionMineRock1H);
■}
};
// -----
// ----- Wrench.c - END ------//
// ----- WriteLetter.c - START ------
// -----
class WriteLetter extends RecipeBase
■override void Init()
■■m_Name = "#write_note";
■■m_IsInstaRecipe = true;//should this recipe be performed instantly without animation
■■m_AnimationLength = 1.5;//animation length in relative time units
■■m_Specialty = -0.01;// value > 0 for roughness, value < 0 for precision
■■//conditions
■■m_MinDamageIngredient[0] = -1;//-1 = disable check
■■m_MaxDamageIngredient[0] = 3://-1 = disable check
```

```
----- WrittenNoteData.c - START -----
class WrittenNoteData
■protected ItemBase ■m_WritingImplement;
■protected ItemBase m_Paper;
■//protected int ■■m_Handwriting = -1;
■protected string ■m_SimpleText;
■void WrittenNoteData(ItemBase parent)
•}
■void OnRPC( PlayerIdentity sender, int rpc_type, ParamsReadContext_ctx)
■■Param1<string> param = new Param1<string>("");
■■//sent from server, executed on client
■■if (rpc_type == ERPCs.RPC_WRITE_NOTE)
■■■if (ctx.Read(param))
■■■SetNoteText(param.param1);
■■■g_Game.GetMission().SetNoteMenu(g_Game.GetUlManager().EnterScriptedMenu(MENU_NOTE, G
■■■ItemBase pen;
■■■ItemBase paper;
■■//int handwriting;
■■■if (GetNoteInfo(pen,paper))
■■■g_Game.GetMission().GetNoteMenu().InitNoteWrite(paper,pen,m_SimpleText);
| | |
■■//sent from client (NoteMenu), executed on server
■■if (rpc_type == ERPCs.RPC_WRITE_NOTE_CLIENT)
■■■if (ctx.Read(param))
■■■string old_string = m_SimpleText;
■■■SetNoteText(param.param1);
■■■DepleteWritingImplement(m_WritingImplement,old_string,m_SimpleText);
■■if (rpc_type == ERPCs.RPC_READ_NOTE)
■■if (ctx.Read(param))
■■■SetNoteText(param.param1);
■■■g_Game.GetMission().SetNoteMenu(g_Game.GetUlManager().EnterScriptedMenu(MENU_NOTE, G
■■■g_Game.GetMission().GetNoteMenu().InitNoteRead(m_SimpleText);
——}
```

■void InitNoteInfo(ItemRase nen – null_ItemRase naner – null)

```
//global variables for xbox demo purposes
int g_DemoPlayerClass ■= 0;
int g_DemoWeather ■■= 0;
int g_DemoTimeOfDay ■= 0;
// ----- XboxDemoGame.c - END ------//
// ----- XmasLights.c - START ------//
class XmasLights extends Inventory_Base
■private ItemBase m_AttachedTo = NULL;
■void XmasLights()
■■TurnOffItem(this);
■}
■override bool IsElectricAppliance()
■ return true;
■override void OnWorkStart()
■■TurnOnItem( m_AttachedTo );
■■TurnOnItem( this );
■}
■override void OnWorkStop()
■■TurnOffItem( m_AttachedTo );
■■TurnOffItem( this );
■void AttachToObject(ItemBase parent)
■■//SetPilotLight( false );
■■m_AttachedTo = parent;
■■TurnOnItem( parent );
■■if ( GetCompEM().IsPlugged() )
■■parent.SetAnimationPhase( "Cord_plugged", 0);
parent.SetAnimationPhase("Cord_folded", 1);
——}
else
```

Ingrent SetAnimationPhase("Cord_nlugged" | 1)⋅

```
class XmasSleighLight extends PointLightBase
■void XmasSleighLight()
■■SetVisibleDuringDaylight(false);
■■SetRadiusTo(24):
■■SetBrightnessTo(3);
■■SetCastShadow(false);
■■SetDiffuseColor(0.7, 0.7, 1.0);
■■SetFlareVisible(false);
■■SetFlickerAmplitude(0.5);
■■SetFlickerSpeed(1);
// ----- XmasSleighLight.c - END ------//
// ----- XmasTreeLight.c - START -----
class XmasTreeLight extends PointLightBase
■void XmasTreeLight()
■■SetVisibleDuringDaylight(false);
■■SetRadiusTo( 12 );
■■SetBrightnessTo(0.50);
■■SetCastShadow(false);
■■SetDiffuseColor(1.2, 1.0, 0.7);
■■SetDancingShadowsMovementSpeed(0.005);
■■SetDancingShadowsAmplitude(0.003);
■}
// -----
// ----- XmasTreeLight.c - END -----
// -----
class ZmijovkaCap_ColorBase extends Clothing
■override void SetActions()
■■super.SetActions();
■■AddAction(ActionWringClothes);
```

```
// ----- ZombieBase.c - START ------
class ZombieBase extends DayZInfected
 ■const float TARGET_CONE_ANGLE_CHASE = 20;
■const float TARGET_CONE_ANGLE_FIGHT = 30;
■const float ORIENTATION_SYNC_THRESHOLD = 30; //threshold for local heading/orientation sync
■const float■SHOCK_TO_STUN_MULTIPLIER = 2.82;
■//! server / singleplayer properties
■protected int m_StanceVariation = 0;
■protected int m_LastMindState = -1;
■protected float m_LastMovementSpeed = -1;
■protected bool m_KnuckleLand = false;
■protected float m_KnuckleOutTimer = 0;
■protected int m_MindState = -1;
■protected int m_OrientationLocal = -1; //local 'companion' value for sync checking
■protected int m_OrientationSynced = -1;
■protected float m_OrientationTimer;
■protected float m_MovementSpeed = -1;
■protected vector m_DefaultHitPosition;
■protected AbstractWave m_LastSoundVoiceAW;
■protected ref InfectedSoundEventHandler■m_InfectedSoundEventHandler;
■protected ref array<Object> m_AllTargetObjects;
■protected ref array<typename>m_TargetableObjects;
■//static ref map<int,ref array<string>> ■m_FinisherSelectionMap; //! which selections in the FireGeometr
■protected bool m_IsCrawling; //'DayZInfectedCommandCrawl' is transition to crawl only, 'DayZInfectedCommandCrawl' is transition to crawl only, 'DayZInfectedCommandCrawl' is transition to crawle only is the contract of the command crawle only is the contract of the crawle of th
■protected bool m_FinisherInProgress = false; //is this object being backstabbed?
■void ZombieBase()
■Init();
■}
■void Init()
■■SetEventMask(EntityEvent.INIT);
■■m_IsCrawling = false;
■■RegisterNetSyncVariableInt("m_MindState", -1, 4);
■■RegisterNetSyncVariableInt("m_OrientationSynced", 0, 359);
 ■■RegisterNetSyncVariableFloat("m_MovementSpeed", -1, 3);
■■RegisterNetSyncVariableBool("m_IsCrawling");
 ■■//! sets default hit position and cache it here (mainly for impact particles)
■■m_DefaultHitPosition = SetDefaultHitPosition(GetĎayZInfectedType(). GetDefaultHitPositionComponer
```

```
// ----- ZombieContainer.c - START ------
class ZombieContainer: CollapsibleContainer
■protected ref AttachmentsGroupContainer
■m_Container;
■protected ref ContainerWithCargo
■■■m_CargoGrid;
■protected ref map<int, Slotslcon>■■■m_InventorySlots;
■protected ref map<EntityAI, ref Container>■m_ShowedItems = new ref map<EntityAI, ref Container>;
■protected EntityAl■■■■■■■■ZombieEntity;
■void ZombieContainer( LayoutHolder parent, int sort = -1 )
m_InventorySlots = new ref map<int, SlotsIcon>;
■■m_Container = new AttachmentsGroupContainer(this);
■■m_Container.SetHeader(GetHeader());
■■SetHeaderName();
■■SetHeader(null);
■■m_Body.Insert( m_Container );
■■m_MainWidget = m_RootWidget.FindAnyWidget( "body" );
■■WidgetEventHandler.GetInstance().RegisterOnChildAdd( m_MainWidget, this, "OnChildAdd" );
■■WidgetEventHandler.GetInstance().RegisterOnChildRemove( m_MainWidget, this, "OnChildRemove" )
■■RecomputeOpenedContainers();
■void ~ZombieContainer()
■■if( m_ZombieEntity )
■■■m_ZombieEntity.GetOnItemAttached().Remove(ItemAttached);
■■■m_ZombieEntity.GetOnItemDetached().Remove(ItemDetached);
| ||
|}
■void SetEntity( EntityAl zombie_entity )
■■m_ZombieEntity = zombie_entity;
■■m_ZombieEntity.GetOnItemAttached().Insert(ItemAttached);
■■m_ZombieEntity.GetOnItemDetached().Insert(ItemDetached);
■■InitGhostSlots();
■■m_Parent.Refresh();
■override void UpdateRadialIcon()
■■if ( m_SlotIcon )
■■{
■■■bool show_radial_icon;
■■show_radial_icon = IsHidden();
■■■Widget rip = m_SlotIcon.GetRadialIconPanel();
■■■Widget icon_open = m_SlotIcon.GetRadialIcon();
■■■Widget icon_closed = m_SlotIcon.GetRadialIconClosed();
■■■rip.Show(!m_ZombieEntity.GetInventory().IsInventoryLockedForLockType(HIDE_INV_FROM_SCRI
■■■icon_open.Show( show_radial_icon );
```

■■icon_closed.Show(!show_radial_icon);

```
---- ZombieFemaleBase.c - START -----
class ZombieFemaleBase extends ZombieBase
■override bool IsMale()
■ereturn false;
■override string CaptureSound()
■ return "ZmbF_Normal_HeavyHit_Soundset";
■override string ReleaseSound()
■ return "ZmbF_Normal_CallToArmsShort_Soundset";
class ZmbF_BlueCollarFat_Base extends ZombieFemaleBase
class ZmbF_CitizenANormal_Base extends ZombieFemaleBase
class ZmbF_CitizenANormal_LT_Base extends ZombieFemaleBase
class ZmbF_CitizenBSkinny_Base extends ZombieFemaleBase
class ZmbF_Clerk_Normal_Base extends ZombieFemaleBase
class ZmbF_ClerkFat_Base extends ZombieFemaleBase
class ZmbF_Clerk_Normal_LT_Base extends ZombieFemaleBase
};
class ZmbF_DoctorSkinny_Base extends ZombieFemaleBase
class ZmbF_HikerSkinny_Base extends ZombieFemaleBase
class ZmbF_JoggerSkinny_Base extends ZombieFemaleBase
```

```
class ZombieMaleBase extends ZombieBase
■override string CaptureSound()
■ return "ZmbM_Normal_HeavyHit_Soundset";
■override string ReleaseSound()
■ return "ZmbM_Normal_CallToArmsShort_Soundset";
//! Base class for eatch Infected type
class ZmbM_CitizenASkinny_Base extends ZombieMaleBase
class ZmbM_CitizenASkinny_LT_Base extends ZombieMaleBase
class ZmbM_CitizenBFat_Base extends ZombieMaleBase
class ZmbM_ClerkFat_Base extends ZombieMaleBase
class ZmbM_ClerkFat_LT_Base extends ZombieMaleBase
class ZmbM_CommercialPilotOld_Base extends ZombieMaleBase
};
class ZmbM_CommercialPilotOld_LT_Base extends ZombieMaleBase
class ZmbM_ConstrWorkerNormal_Base extends ZombieMaleBase
class ZmbM_DoctorFat_Base extends ZombieMaleBase
class ZmbM_FarmerFat_Base extends ZombieMaleBase
class ZmbM_FarmerFat_LT_Base extends ZombieMaleBase
```

```
// ----- ZombieMummyLight.c - START -----
class ZombieMummyLight extends PointLightBase
■void ZombieMummyLight()
■{
■■SetVisibleDuringDaylight(false);
■■SetRadiusTo(2.1);
■■SetBrightnessTo(3.1);
■■SetCastShadow(false);
■■SetFadeOutTime(15);
■SetDiffuseColor(0.6, 0.5, 0.1);
■ SetAmbientColor(0.6, 0.5, 0.1);
■■SetFlareVisible(false);
■■SetFlickerAmplitude(0.35);
■■SetFlickerSpeed(0.25);
■■SetDancingShadowsMovementSpeed(0.05);
■■SetDancingShadowsAmplitude(0.03);
■}
};
// -----
// ----- ZombieMummyLight.c - END ------//
/// ----- ZSh3PilotHelmet.c - START ------
class ZSh3PilotHelmet extends HelmetBase
// ----- ZSh3PilotHelmet.c - END ------//
// ----- Zucchini.c - START -----
// -----
class Zucchini: Edible_Base
■override bool CanBeCookedOnStick()
■return true:
■override bool CanBeCooked()
■return true;
```

Override hool IsFruit()

```
// ----- ZucchiniSeedsPack.c - START ------
class ZucchiniSeedsPack extends SeedPackBase
// ----- ZucchiniSeedsPack.c - END -----
// -----
// ----- _constants.c - START -----
enum eBadgeLevel
■NONE,
■FIRST.
■SECOND,
■THIRD,
enum eDisplayElements
■DELM_BADGE_STUFFED,
■DELM_BADGE_WET,
■DELM_BADGE_SICK,
■DELM_BADGE_POISONED,
■DELM_BADGE_FRACTURE,
■DELM_BADGE_BLEEDING,
■DELM_BADGE_PILLS,
■DELM_BADGE_HEARTBEAT,
■DELM TDCY HEALTH,
■DELM_TDCY_BLOOD,
■DELM_TDCY_TEMPERATURE,
■DELM_TDCY_ENERGY,
■DELM TDCY WATER,
■DELM_TDCY_BACTERIA,
I//-----
■DELM_STANCE,
■COUNT
//constants related to ui
//key constants
const int■NTFKEY_THIRSTY■= 1;
const int■NTFKEY_HUNGRY■= 2;
const int■NTFKEY WARMTH■= 3;
const int■NTFKEY_WETNESS■= 4; const int■NTFKEY_FRACTURE■= 5;
const int■NTFKEY_HEALTHY■= 6;
const int■NTFKEY_FEVERISH■= 7;
const int■NTFKEY_SICK■■= 8; const int■NTFKEY_STUFFED■= 9;
const int■NTFKEY BLEEDISH■= 10;
```

const int■NTFKEY BLOOD■- 11: