Core Manager

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CoreManager

Reasons to use this package:

- · It allows avoiding reference serialization via Inspector.
- · It removes the need for GOD objects.
- · Provides high script flexibility and low cohesion.

1.1 Technical details

Package created on version 2020.3.6f1 but compatible with the versions starting from 2020.x.x

Any OS supported. Unity version 2020 and above. (Package requires C# 8.0)

1.2 Features

- 1. Core Manager used for scene, subscription, and reference initialization.
- 2. **Cross Events** replacement for the traditional event serialization and subscription.
- 3. Reference Distributor reference container for data distribution in one scene.
- Cross Scene Data Handler data container(not references) which allows data distribution between scenes.
 Supports both classes and structures.
- Custom Validation Attributes allows validating serialized data. This plugin contains both predefined validation attributes and mechanisms to implement new validation attributes. Supports both class and field attributes.
- 6. Custom Editor used for attribute validation and displaying errors in Inspector.
- 7. Custom Logger use this logger if you want to show logs in debug build/editor, but not in release build.
- 8. Custom Play Mode entering prevents Play Mode start if the current scene contains validation failure.
- 9. **Custom Build** start prevents application build if scenes included in the build or prefabs with validation attributes contain validation failures.
- 10. SaveSystem system to save/load JSON files.

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- 11. UIStateTools & UIManager base UI system for page-based UI.
- 12. Extensions for Editor and base classes.
- 13. **Scene Loader** allows to asynchronously load scene through an intermediate scene and allows to serialize SceneAssets through Inspector (use SceneLoaderAsset).
- 14. **Runtime console** console with Unity logs for debug and/or release builds. Allows display console logs like in Unity Editor. Strips from release builds if other not predetermined.
- 15. Scene Loader add callbacks on scene changing.

1.3 Improvements

- 1. RequireInterfaceAttribute
- 2. Delegate combination for subscribing (checkout samples to learn how to use)

1.4 Breaking changes

1.4.1 v1.1.2

1. Event interfaces accept arrays instead of IEnumerable.

Namespace Index

2.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

CorePlugin
CorePlugin.Attributes
CorePlugin.Attributes.Editor
CorePlugin.Attributes.Editor.Drawers
CorePlugin.Attributes.Headers
CorePlugin.Attributes.Validation
CorePlugin.Attributes.Validation.Base
CorePlugin.Console
CorePlugin.Console.ConsoleElements
CorePlugin.Core
CorePlugin.Core.Interface
CorePlugin.Cross
CorePlugin.Cross.Events
CorePlugin.Cross.Events.Interface
CorePlugin.Cross.SceneData
CorePlugin.Cross.SceneData.Interface
CorePlugin.Dispatchers
CorePlugin.Editor
CorePlugin.Extensions
CorePlugin.FileSystem
CorePlugin.Logger
CorePlugin.ReferenceDistribution
CorePlugin.ReferenceDistribution.Interface
CorePlugin.Samples
CorePlugin.Samples.Scripts
CorePlugin.Samples.Scripts.Demo
CorePlugin.Samples.Scripts.EventTypes
CorePlugin.Samples.Scripts.Managers
CorePlugin.Samples.Scripts.Model
CorePlugin.SceneManagement
CorePlugin.Serializable
CorePlugin.Serializable.Interface
CorePlugin.Singletons
CorePlugin.UISystem
CorePlugin.UISystem.UI

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Hierarchical Index

3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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ConsoleTextSettings	23
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ToggleCountDisplayer	64
DebugLogger	27
EventInitializer	27
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ICore	34
BaseCore	19
UIManager	65
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IEventHandler	35
IEventSubscriber	37
ISceneData	38
ItemHider	38
IUnique	39
Unique	68
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MinimizedConsole	41
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Named < TName, TKey, TValue >	42
Named < string, Object >	42
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SceneLoaderSettingsEditor	58
SceneLoaderSettingsValidator	58
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$Singleton < T > \dots \dots$	59
Singleton < SceneDataHandler >	59
SceneDataHandler	51
StateHeaderAttribute	60
$StaticObjectSingleton < T > \dots \dots$	60
StaticObjectSingleton < MainThreadDispatcher >	60
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CoreManagerEditor	

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4.1 Class List

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	ngReference Flag interface for MonoBehaviour classes what need to referenced from another class	35
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ItemHider l	JI element hider. Useful than needed to hide elements on UI change its' size	38
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	CountDisplayer Log count displayer for CorePlugin.Console.RuntimeConsole	40
Minimized N		41
	sideScreen Class for moving UI objects inside screen	42
	TName, TKey, TValue > Replacement for dictionary in Unity Inspector	42

4.1 Class List

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OneAndOnlyAttribute Attribute validating whether there is only one copy of this class in the scene	43
PrefabHeaderAttribute Replacement for Header("Prefabs")	44
PrefabRequiredAttribute Attribute validating whether the object or all items in list are prefabs	44
ReferenceDistributor Class responsible for reference distribution inside one scene	45
ReferencesHeaderAttribute Replacement for Header("References")	48
RequireInterfaceAttribute Attribute that require implementation of the provided interface	48
RequireInterfaceDrawer Drawer for the RequireInterface attribute	49
RuntimeConsole Main class for RuntimeConsole	50
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ToggleC	ountDisplayer Log toggle for CorePlugin.Console.RuntimeConsole	64
UIManaç	ger Base implementation of UIManager	65
UIPage	UI page implementation	66
UIStateT	Tools UI state tool for canvas groups	67
Unique	Base class for classes that need to be saved in Json file	68
UnityEdi	itorExtension Extensions for Unity Editor classes	69
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Validatio	onAttribute Base attribute for validation	75

Namespace Documentation

- 5.1 CorePlugin Namespace Reference
- 5.2 CorePlugin.Attributes Namespace Reference
- 5.3 CorePlugin.Attributes.Editor Namespace Reference

Classes

· class ValidationAttributeEditor

Custom editor for Unity. Object class. If you want to create your own custom editor inherit from this class. See also

ValidationAttribute, FieldValidationAttribute, ClassValidationAttribute

5.4 CorePlugin.Attributes.Editor.Drawers Namespace Reference

Classes

· class RequireInterfaceDrawer

Drawer for the RequireInterface attribute.

5.5 CorePlugin.Attributes.Headers Namespace Reference

Classes

· class PrefabHeaderAttribute

Replacement for Header("Prefabs")

• class ReferencesHeaderAttribute

Replacement for Header("References")

· class SettingsHeaderAttribute

Replacement for Header("Settings")

· class StateHeaderAttribute

Replacement for Header("State")

5.6 CorePlugin.Attributes.Validation Namespace Reference

Classes

· class HasComponentAttribute

Attribute validating whether Object in field or all objects in the list have desired component.

· class NotNullAttribute

Attribute validating whether field or element in the list equals null.

· class OneAndOnlyAttribute

Attribute validating whether there is only one copy of this class in the scene.

· class PrefabRequiredAttribute

Attribute validating whether the object or all items in list are prefabs.

· class RequireInterfaceAttribute

Attribute that require implementation of the provided interface.

5.7 CorePlugin.Attributes.Validation.Base Namespace Reference

Classes

· class ClassValidationAttribute

Base attribute for class validation.

· class FieldValidationAttribute

Base attribute for field validation.

· class ValidationAttribute

Base attribute for validation

5.8 CorePlugin.Console Namespace Reference

Classes

· class ConsoleInitializer

Initialize minimized and maximized console

• class MinimizedConsole

Minimized console

· class RuntimeConsole

Main class for RuntimeConsole

5.9 CorePlugin.Console.ConsoleElements Namespace Reference

Classes

· class ConsoleIcons

List of icons for See also

CorePlugin.Console.RuntimeConsole

• class ConsoleMessage

Log message for CorePlugin.Console.RuntimeConsole

class ConsoleTextSettings

Settings class for CorePlugin.Console.RuntimeConsole

· class CountDisplayer

Log count displayer for CorePlugin.Console.RuntimeConsole

class MinimizeCountDisplayer

Log count displayer for CorePlugin.Console.RuntimeConsole

class ToggleCountDisplayer

Log toggle for CorePlugin.Console.RuntimeConsole

5.10 CorePlugin.Core Namespace Reference

Classes

· class BaseCore

Base implementation of IManager.

class CoreManager

Manager for initialization of sub manager in the scene. See also

 $Core {\it Plugin.Reference Distribution.Reference Distributor,\ Core {\it Plugin.Core.Interface.ICore.Plugin.Core.Interface.ICore.Plugin.Core.Plugin.Core.Interface.ICore.Plugin.Core.Plugin$

· class EventInitializer

Class responsible for reference initialization See also

CorePlugin.Cross.Events.Interface.IEventHandler, CorePlugin.Cross.Events.Interface.IEventSubscriber

5.11 CorePlugin.Core.Interface Namespace Reference

Classes

interface ICore

Interface for Manager declaration.

5.12 CorePlugin.Cross Namespace Reference

5.13 CorePlugin.Cross.Events Namespace Reference

Classes

class EventTypes

Declare your delegate type to convert method group to delegate.

5.14 CorePlugin.Cross.Events.Interface Namespace Reference

Classes

interface | EventHandler

Interface for event handler.

· interface IEventSubscriber

Interface for subscribers.

5.15 CorePlugin.Cross.SceneData Namespace Reference

Classes

· class SceneDataHandler

Singleton for passing data between scenes

CorePlugin.Cross.SceneData.Interface.ISceneData

5.16 CorePlugin.Cross.SceneData.Interface Namespace Reference

Classes

· interface ISceneData

Flag interface for classes or structs to pass between scenes See also

CorePlugin.Cross.SceneData.SceneDataHandler

5.17 CorePlugin.Dispatchers Namespace Reference

5.18 CorePlugin.Editor Namespace Reference

Classes

· class CoreManagerEditor

Custom Editor CoreManager class. See also

CorePlugin.Core.CoreManager

• class SceneLoaderSettingsEditor

Editor for See also

 ${\it Core Plugin. Scene Management. Scene Loader Settings}$

validation

class SceneLoaderSettingsValidator

Validator class for See also

CorePlugin.SceneManagement.SceneLoaderSettings

class SymbolDefiner

Class for "Scripting Define Symbols" defining from CoreManager Inspector. See also

CorePlugin.Core.CoreManager

5.19 CorePlugin. Extensions Namespace Reference

Classes

· class Named

Replacement for dictionary in Unity Inspector

class UIStateTools

UI state tool for canvas groups

class UnityEditorExtension

Extensions for Unity Editor classes

class UnityExtensions

Extension class for default Unity classes

5.20 CorePlugin.FileSystem Namespace Reference

Classes

· class FileSystem

Class for saving Json file to disk.

CorePlugin.Serializable.Unique

5.21 CorePlugin.Logger Namespace Reference

Classes

class DebugLogger

Custom logger solution for logs.

5.22 CorePlugin.ReferenceDistribution Namespace Reference

Classes

· class ReferenceDistributor

Class responsible for reference distribution inside one scene.

5.23 CorePlugin.ReferenceDistribution.Interface Namespace Reference

Classes

· interface IDistributingReference

Flag interface for MonoBehaviour classes what need to referenced from another class.

- 5.24 CorePlugin.Samples Namespace Reference
- 5.25 CorePlugin.Samples.Scripts Namespace Reference
- 5.26 CorePlugin.Samples.Scripts.Demo Namespace Reference
- 5.27 CorePlugin.Samples.Scripts.EventTypes Namespace Reference
- 5.28 CorePlugin.Samples.Scripts.Managers Namespace Reference
- 5.29 CorePlugin.Samples.Scripts.Model Namespace Reference
- 5.30 CorePlugin.SceneManagement Namespace Reference

Classes

• class LoadSceneOptions

Loading Scene Options

· class SceneLoader

Scene Loader at run-time

· class SceneLoaderAsset

Class represents SceneAsset for

CorePlugin.SceneManagement.SceneLoader

· class SceneLoaderExtensions

Extensions for See also

 ${\it Core Plugin. Scene Management. Scene Loader}$

· class SceneLoaderSettings

Scene Loader Settings

5.31 CorePlugin.Serializable Namespace Reference

Classes

· class Unique

Base class for classes that need to be saved in Json file.

5.32 CorePlugin.Serializable.Interface Namespace Reference

Classes

interface IUnique

Interface for unique objects. For example, you can use it for objects that need to be saved in Json or objects with the same data, but with different identifiers

5.33 CorePlugin.Singletons Namespace Reference

Classes

· class Singleton

Base for all singletons. Strongly recommended to use singletons as little as possible.

· class StaticObjectSingleton

Base for static objects singletons. Strongly recommended to use singletons as little as possible.

5.34 CorePlugin.UISystem Namespace Reference

Classes

· class ItemHider

UI element hider. Useful than needed to hide elements on UI change its' size

· class MovableInsideScreen

Class for moving UI objects inside screen

· class UIManager

Base implementation of UlManager.

5.35 CorePlugin.UISystem.UI Namespace Reference

Classes

• class SubPagesController

Class designated for UI subpages.

• class UIPage

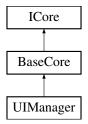
UI page implementation

Class Documentation

6.1 BaseCore Class Reference

Base implementation of IManager.

Inheritance diagram for BaseCore:



Public Member Functions

• virtual void InitializeElements ()

Initializing all managers elements.

6.1.1 Detailed Description

Base implementation of IManager.

6.1.2 Member Function Documentation

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6.1.2.1 InitializeElements()

```
virtual void InitializeElements ( ) [inline], [virtual]
```

Initializing all managers elements.

Implements ICore.

Reimplemented in UlManager.

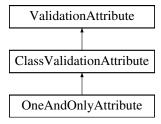
The documentation for this class was generated from the following file:

· BaseCore.cs

6.2 ClassValidationAttribute Class Reference

Base attribute for class validation.

Inheritance diagram for ClassValidationAttribute:



6.2.1 Detailed Description

Base attribute for class validation.

The documentation for this class was generated from the following file:

· ClassValidationAttribute.cs

6.3 Consolelcons Class Reference

List of icons for

See also

CorePlugin.Console.RuntimeConsole

Inherits ScriptableObject.

6.3.1 Detailed Description

List of icons for

See also

CorePlugin.Console.RuntimeConsole

The documentation for this class was generated from the following file:

· Consolelcons.cs

6.4 Consolelnitializer Class Reference

Initialize minimized and maximized console

Inherits MonoBehaviour.

6.4.1 Detailed Description

Initialize minimized and maximized console

The documentation for this class was generated from the following file:

· ConsoleInitializer.cs

6.5 ConsoleMessage Class Reference

 $Log\ message\ for\ CorePlugin. Console. Runtime Console$

Inherits MonoBehaviour.

Public Member Functions

· void ClearHighlight ()

Clear highlight marks

ConsoleMessage HighlightText (string text)

Sets highlight marks

ConsoleMessage SetActive (bool state)

Setting active message in console

- ConsoleMessage Initialize (string logText, string stackTrace, LogType logType, ConsoleTextSettings settings)
 Initializing console message
- ConsoleMessage SubscribeOnButtonClick (Action< string > onClickAction)

Subscribes action to message button

22 Class Documentation

6.5.1 Detailed Description

 $Log\ message\ for\ CorePlugin. Console. Runtime Console$

6.5.2 Member Function Documentation

6.5.2.1 ClearHighlight()

```
void ClearHighlight ( ) [inline]
```

Clear highlight marks

6.5.2.2 HighlightText()

Sets highlight marks

6.5.2.3 Initialize()

```
ConsoleMessage Initialize (
          string logText,
          string stackTrace,
          LogType logType,
          ConsoleTextSettings settings ) [inline]
```

Initializing console message

Parameters

logText	
stackTrace	
logType	
settings	

Returns

Exceptions

ArgumentOutOfRangeException

6.5.2.4 SetActive()

```
ConsoleMessage SetActive (
          bool state ) [inline]
```

Setting active message in console

Parameters

state

References UIStateTools.ChangeGroupState().

6.5.2.5 SubscribeOnButtonClick()

```
\label{lem:consoleMessage} \mbox{SubscribeOnButtonClick (} \\ \mbox{Action} < \mbox{string} > \mbox{onClickAction} \mbox{) [inline]}
```

Subscribes action to message button

Parameters

onClickAction

Returns

The documentation for this class was generated from the following file:

· ConsoleMessage.cs

6.6 ConsoleTextSettings Class Reference

Settings class for CorePlugin.Console.RuntimeConsole

24 Class Documentation

6.6.1 Detailed Description

Settings class for CorePlugin.Console.RuntimeConsole

The documentation for this class was generated from the following file:

· ConsoleTextSettings.cs

6.7 CoreManager Class Reference

Manager for initialization of sub manager in the scene.

See also

CorePlugin.ReferenceDistribution.ReferenceDistributor, CorePlugin.Core.Interface.ICore

Inherits MonoBehaviour.

6.7.1 Detailed Description

Manager for initialization of sub manager in the scene.

See also

CorePlugin.ReferenceDistribution.ReferenceDistributor, CorePlugin.Core.Interface.ICore

The documentation for this class was generated from the following file:

· CoreManager.cs

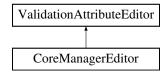
6.8 CoreManagerEditor Class Reference

Custom Editor CoreManager class.

See also

CorePlugin.Core.CoreManager

Inheritance diagram for CoreManagerEditor:



6.8.1 Detailed Description

Custom Editor CoreManager class.

See also

CorePlugin.Core.CoreManager

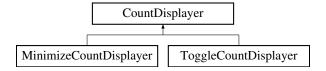
The documentation for this class was generated from the following file:

· CoreManagerEditor.cs

6.9 CountDisplayer Class Reference

Log count displayer for CorePlugin.Console.RuntimeConsole

Inheritance diagram for CountDisplayer:



Public Member Functions

- virtual CountDisplayer Initialize (Consolelcons icons)
 Initialize CountDisplayer with icons
- abstract CountDisplayer SetInteractionAction (Action < LogType, bool > onInteractWithDisplayer)
 Setting action when interaction with CountDisplayer happens
- virtual void OnLogCountChanged (HashSet< LogType > types, int count)
 Displaying new count

6.9.1 Detailed Description

Log count displayer for CorePlugin.Console.RuntimeConsole

6.9.2 Member Function Documentation

6.9.2.1 Initialize()

Initialize CountDisplayer with icons

26 Class Documentation

D _o			- 4		
Pа	ra	m	eı	e	rs

icons

Returns

Reimplemented in ToggleCountDisplayer, and MinimizeCountDisplayer.

Referenced by ToggleCountDisplayer.Initialize().

6.9.2.2 OnLogCountChanged()

Displaying new count

Parameters

types count

6.9.2.3 SetInteractionAction()

Setting action when interaction with CountDisplayer happens

Parameters

onInteractWithDisplayer

Returns

Implemented in ToggleCountDisplayer, and MinimizeCountDisplayer.

The documentation for this class was generated from the following file:

CountDisplayer.cs

6.10 DebugLogger Class Reference

Custom logger solution for logs.

6.10.1 Detailed Description

Custom logger solution for logs.

Logs in this class are dependant on <code>DEBUG</code> and <code>ENABLE_RELEASE_LOGS</code>. If <code>ENABLE_RELEASE_LOGS</code> defined logs will displayed in Release Build. Otherwise only <code>Editor</code> and <code>Developer</code> Build will display logs. For defining preprocessor open CoreManager or write down in PlayerSettings in field "Scripting Define Symbols".

See also

CorePlugin.Core.CoreManager

The documentation for this class was generated from the following file:

· DebugLogger.cs

6.11 EventInitializer Class Reference

Class responsible for reference initialization

See also

CorePlugin.Cross.Events.Interface.IEventHandler, CorePlugin.Cross.Events.Interface.IEventSubscriber

Static Public Member Functions

• static void InitializeSubscriptions ()

Initialising cross subscriptions for all handlers in the scene.

static void Subscribe (IEventSubscriber subscriber)

Subscribing event subscriber after scene has Awoken to event handlers.

static void Unsubscribe (IEventSubscriber subscriber)

Unsubscribing event subscriber after scene has Awoken from event handlers.

• static void AddHandler (IEventHandler handler, bool subscriptionsNeeded=true, bool invokeNeeded=false)

Adding new handler after scene has Awoken to list of event handlers.

static void RemoveHandler (IEventHandler handler)

Removing event handler after scene has Awoken from list

static void InvokeBase ()

Invoking event on handlers.

6.11.1 Detailed Description

Class responsible for reference initialization

See also

CorePlugin.Cross.Events.Interface.IEventHandler, CorePlugin.Cross.Events.Interface.IEventSubscriber

6.11.2 Member Function Documentation

6.11.2.1 AddHandler()

Adding new handler after scene has Awoken to list of event handlers.

Parameters

handler	
subscriptionsNeeded	If false invokeNeeded will not be called
invokeNeeded	

References IEventHandler.InvokeEvents(), and IEventHandler.Subscribe().

6.11.2.2 InitializeSubscriptions()

```
static void InitializeSubscriptions ( ) [inline], [static]
```

Initialising cross subscriptions for all handlers in the scene.

6.11.2.3 InvokeBase()

```
static void InvokeBase ( ) [inline], [static]
```

Invoking event on handlers.

6.11.2.4 RemoveHandler()

Removing event handler after scene has Awoken from list

Parameters

handler

6.11.2.5 Subscribe()

Subscribing event subscriber after scene has Awoken to event handlers.

Parameters

subscriber

6.11.2.6 Unsubscribe()

Unsubscribing event subscriber after scene has Awoken from event handlers.

Parameters

subscriber

The documentation for this class was generated from the following file:

· EventInitializer.cs

6.12 EventTypes Class Reference

Declare your delegate type to convert method group to delegate.

Inherited by CustomEventTypes.

6.12.1 Detailed Description

Declare your delegate type to convert method group to delegate.

```
public delegate void DelegateClass(Type type1);
public delegate void DelegateClass2(Type type2, Type type3);
```

See also

CorePlugin.Cross.Events.Interface.IEventHandler, CorePlugin.Cross.Events.Interface.IEventSubscriber

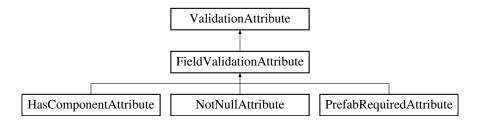
The documentation for this class was generated from the following file:

· EventTypes.cs

6.13 FieldValidationAttribute Class Reference

Base attribute for field validation.

Inheritance diagram for FieldValidationAttribute:



6.13.1 Detailed Description

Base attribute for field validation.

The documentation for this class was generated from the following file:

· FieldValidationAttribute.cs

6.14 FileSystem Class Reference

Class for saving Json file to disk.

See also

CorePlugin.Serializable.Unique

Public Member Functions

• FileSystem ()

Default constructor.

· FileSystem (string path)

Overloaded constructor which changes default path.

• FileSystem (string path, string extension)

Overloaded constructor which changes default path and file extension.

void Save < T > (T data, Action < Exception > onError, Object context=null)

Saves class to the file with the name of class.

void Save T > (T data, string fileName, Action < Exception > onError, Object context=null)
 Saves your class to file.

void Load< T > (Action< T > onLoaded, Action< Exception > onError, Object context=null)

void Load< T > (string fileName, Action< T > onLoaded, Action< Exception > onError, Object context=null)
 Loads file with different file name from passed class.

6.14.1 Detailed Description

Class for saving Json file to disk.

See also

CorePlugin.Serializable.Unique

6.14.2 Constructor & Destructor Documentation

6.14.2.1 FileSystem() [1/3]

```
FileSystem ( ) [inline]
```

Default constructor.

6.14.2.2 FileSystem() [2/3]

```
FileSystem ( {\tt string} \ path \ ) \quad [{\tt inline}]
```

Overloaded constructor which changes default path.

Parameters

path

6.14.2.3 FileSystem() [3/3]

```
FileSystem ( \label{eq:string_path} \text{string } path, \label{eq:string_path} \text{string } extension \;) \quad [inline]
```

Overloaded constructor which changes default path and file extension.

Parameters

path extension

6.14.3 Member Function Documentation

6.14.3.1 Load< T >() [1/2]

Loads file.

Parameters

onLoaded	
onError	
context	Required if errors should be shown on Object

Template Parameters



Type Constraints

T: Unique

6.14.3.2 Load< T >() [2/2]

Loads file with different file name from passed class.

Parameters

fileName	
onLoaded	
onError	
context	Required if errors should be shown on Object

Template Parameters

Т	

Type Constraints

T: Unique

6.14.3.3 Save < T >() [1/2]

Saves class to the file with the name of class.

Parameters

data	
onError	
context	Required if errors should be shown on Object

Template Parameters



Type Constraints

T: Unique

6.14.3.4 Save < T >() [2/2]

Saves your class to file.

Parameters

data	
fileName	
onError	
context	Required if errors should be shown on Object

Template Parameters

T

Type Constraints

T: Unique

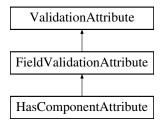
The documentation for this class was generated from the following file:

· FileSystem.cs

6.15 HasComponentAttribute Class Reference

Attribute validating whether Object in field or all objects in the list have desired component.

Inheritance diagram for HasComponentAttribute:



6.15.1 Detailed Description

Attribute validating whether Object in field or all objects in the list have desired component.

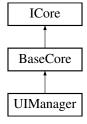
The documentation for this class was generated from the following file:

• HasComponentAttribute.cs

6.16 ICore Interface Reference

Interface for Manager declaration.

Inheritance diagram for ICore:



Public Member Functions

void InitializeElements ()
 Initializing all managers elements.

6.16.1 Detailed Description

Interface for Manager declaration.

6.16.2 Member Function Documentation

6.16.2.1 InitializeElements()

```
void InitializeElements ( )
```

Initializing all managers elements.

Implemented in UIManager, and BaseCore.

The documentation for this interface was generated from the following file:

• ICore.cs

6.17 IDistributingReference Interface Reference

Flag interface for MonoBehaviour classes what need to referenced from another class.

6.17.1 Detailed Description

Flag interface for MonoBehaviour classes what need to referenced from another class.

Strongly recommended to use CorePlugin.Cross.Events and CorePlugin.Cross.Events.Interface instead of direct reference serialization.

The documentation for this interface was generated from the following file:

· IDistributingReference.cs

6.18 IEventHandler Interface Reference

Interface for event handler.

Inherited by CrossSceneDataSenderDemo.

Public Member Functions

• void InvokeEvents ()

Invoking events that need to be invoked on scene initialization.

• void Subscribe (Delegate[] subscribers)

Subscribing delegates to event

• void Unsubscribe (Delegate[] unsubscribers)

Unsubscribing delegates to event

6.18.1 Detailed Description

Interface for event handler.

```
public void Subscribe(params Delegate[] subscriber)
{
foreach (var action in subscriber.OfType<EventTypes.DelegateClass>())
{
MyEvent += action;
}
}
```

See also

CorePlugin.Cross.Events.EventTypes

6.18.2 Member Function Documentation

6.18.2.1 InvokeEvents()

```
void InvokeEvents ( )
```

Invoking events that need to be invoked on scene initialization.

Referenced by EventInitializer.AddHandler().

6.18.2.2 Subscribe()

Subscribing delegates to event

Parameters

subscribers

Referenced by EventInitializer.AddHandler().

6.18.2.3 Unsubscribe()

Unsubscribing delegates to event

Parameters

unsubscribers

The documentation for this interface was generated from the following file:

· IEventHandler.cs

6.19 IEventSubscriber Interface Reference

Interface for subscribers.

Inherited by SceneSwitcher.

Public Member Functions

• Delegate[] GetSubscribers ()

Returns IEnumerable with all methods which need to be subscribed.

6.19.1 Detailed Description

Interface for subscribers.

```
public IEnumerable<Delegate> GetSubscribers()
{
  var list = new Delegate[] {(CrossEventTypes.DelegateClass) MyMethod, (Cross
  EventTypes.DelegateClass2) MyMethod2};
  return list;
}
```

See also

CorePlugin.Cross.Events.EventTypes

6.19.2 Member Function Documentation

6.19.2.1 GetSubscribers()

```
Delegate [] GetSubscribers ()
```

Returns IEnumerable with all methods which need to be subscribed.

Returns

The documentation for this interface was generated from the following file:

· IEventSubscriber.cs

6.20 ISceneData Interface Reference

Flag interface for classes or structs to pass between scenes

See also

CorePlugin.Cross.SceneData.SceneDataHandler

Inherited by DataTransfer.

6.20.1 Detailed Description

Flag interface for classes or structs to pass between scenes

See also

CorePlugin.Cross.SceneData.SceneDataHandler

The documentation for this interface was generated from the following file:

ISceneData.cs

6.21 ItemHider Class Reference

UI element hider. Useful than needed to hide elements on UI change its' size

Inherits MonoBehaviour.

6.21.1 Detailed Description

UI element hider. Useful than needed to hide elements on UI change its' size

The documentation for this class was generated from the following file:

· ItemHider.cs

6.22 IUnique Interface Reference

Interface for unique objects. For example, you can use it for objects that need to be saved in Json or objects with the same data, but with different identifiers

Inheritance diagram for IUnique:



6.22.1 Detailed Description

Interface for unique objects. For example, you can use it for objects that need to be saved in Json or objects with the same data, but with different identifiers

The documentation for this interface was generated from the following file:

• IUnique.cs

6.23 LoadSceneOptions Class Reference

Loading Scene Options

6.23.1 Detailed Description

Loading Scene Options

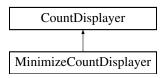
The documentation for this class was generated from the following file:

· LoadSceneOptions.cs

6.24 MinimizeCountDisplayer Class Reference

Log count displayer for CorePlugin.Console.RuntimeConsole

Inheritance diagram for MinimizeCountDisplayer:



Public Member Functions

- override CountDisplayer Initialize (Consolelcons icons)
 Initialize CountDisplayer with icons
- override CountDisplayer SetInteractionAction (Action < LogType, bool > onInteractWithDisplayer)
 Setting action when interaction with CountDisplayer happens

6.24.1 Detailed Description

Log count displayer for CorePlugin.Console.RuntimeConsole

6.24.2 Member Function Documentation

6.24.2.1 Initialize()

Initialize CountDisplayer with icons

Parameters

icons

Returns

Reimplemented from CountDisplayer.

6.24.2.2 SetInteractionAction()

Setting action when interaction with CountDisplayer happens

Parameters

onInteractWithDisplayer

Returns

Implements CountDisplayer.

The documentation for this class was generated from the following file:

· MinimizeCountDisplayer.cs

6.25 MinimizedConsole Class Reference

Minimized console

Inherits MonoBehaviour, IPointerClickHandler, and IBeginDragHandler.

Public Member Functions

- MinimizedConsole Initialize (Action onMaximized, Consolelcons icons)
 Initializing MinimizedConsole
- void SetActive (bool state)

Hides or Show console

6.25.1 Detailed Description

Minimized console

Works together with

See also

CorePlugin.Console.RuntimeConsole

6.25.2 Member Function Documentation

6.25.2.1 Initialize()

Initializing MinimizedConsole

Parameters

onMaximized	
icons	

Returns

6.25.2.2 SetActive()

```
void SetActive (
          bool state ) [inline]
```

Hides or Show console

Parameters

state

References UIStateTools.ChangeGroupState().

The documentation for this class was generated from the following file:

· MinimizedConsole.cs

6.26 MovableInsideScreen Class Reference

Class for moving UI objects inside screen

Inherits MonoBehaviour, IDragHandler, IEndDragHandler, and IBeginDragHandler.

6.26.1 Detailed Description

Class for moving UI objects inside screen

The documentation for this class was generated from the following file:

• MovableInsideScreen.cs

6.27 Named < TName, TKey, TValue > Class Template Reference

Replacement for dictionary in Unity Inspector

6.27.1 Detailed Description

Replacement for dictionary in Unity Inspector

More complex list for dictionary

Template Parameters

TKey	
TValue	

Template Parameters

TName	
TKey	
TValue	

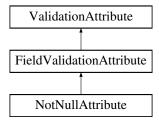
The documentation for this class was generated from the following file:

Named.cs

6.28 NotNullAttribute Class Reference

Attribute validating whether field or element in the list equals null.

Inheritance diagram for NotNullAttribute:



6.28.1 Detailed Description

Attribute validating whether field or element in the list equals null.

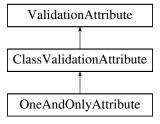
The documentation for this class was generated from the following file:

· NotNullAttribute.cs

6.29 OneAndOnlyAttribute Class Reference

Attribute validating whether there is only one copy of this class in the scene.

Inheritance diagram for OneAndOnlyAttribute:



6.29.1 Detailed Description

Attribute validating whether there is only one copy of this class in the scene.

The documentation for this class was generated from the following file:

OneAndOnlyAttribute.cs

6.30 PrefabHeaderAttribute Class Reference

Replacement for Header("Prefabs")

Inherits HeaderAttribute.

6.30.1 Detailed Description

Replacement for Header("Prefabs")

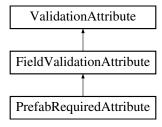
The documentation for this class was generated from the following file:

· PrefabHeaderAttribute.cs

6.31 PrefabRequiredAttribute Class Reference

Attribute validating whether the object or all items in list are prefabs.

Inheritance diagram for PrefabRequiredAttribute:



6.31.1 Detailed Description

Attribute validating whether the object or all items in list are prefabs.

The documentation for this class was generated from the following file:

• PrefabRequiredAttribute.cs

6.32 Reference Distributor Class Reference

Class responsible for reference distribution inside one scene.

Inherits MonoBehaviour.

Public Member Functions

· void Initialize ()

Initializing distribution references

Static Public Member Functions

```
    static T GetReference < T > ([CallerMemberName] string callerName="")
```

Getting reference by type from list

• static T GetInterfaceReference< T > ([CallerMemberName] string callerName="")

Getting reference by type from list

- $\bullet \ \ static \ IEnumerable < T > GetInterfaceReferences < T > ([CallerMemberName] \ string \ callerName = "")$
 - Getting reference by type from list
- static IEnumerable < T > GetReferences < T > ([CallerMemberName] string callerName="")

Getting references by type from list

• static bool AskReference< T > (ref T reference, [CallerMemberName] string callerName="")

Finding reference if passed parameter is null. Use this if you need reference not in Start() and/or reference should be received in some event

6.32.1 Detailed Description

Class responsible for reference distribution inside one scene.

Strongly recommended to use CorePlugin.Cross.Events and CorePlugin.Cross.Events.Interface instead of direct reference serialization.

6.32.2 Member Function Documentation

6.32.2.1 AskReference< T >()

Finding reference if passed parameter is null. Use this if you need reference not in Start() and/or reference should be received in some event

Parameters
reference
Template Parameters
T
Returns
Type Constraints
T : MonoBehaviour T : IDistributingReference
References ReferenceDistributor.GetReference $<$ T $>$ ().
6.32.2.2 GetInterfaceReference< T >()
<pre>static T GetInterfaceReference< T > ([CallerMemberName] string callerName = "") [inline], [static]</pre>
Getting reference by type from list
Template Parameters
T
Returns
Type Constraints
T : IDistributingReference
6.32.2.3 GetInterfaceReferences< T >()
<pre>static IEnumerable<t> GetInterfaceReferences< T > (</t></pre>

Getting reference by type from list

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Template Parameters
T
Returns
Type Constraints
T: IDistributingReference
6.32.2.4 GetReference< T >()
ababia T Cabbafanana (T > /
<pre>static T GetReference< T > (</pre>
Getting reference by type from list
Template Parameters
$\lceil T \rceil$
Returns
Type Constraints
T : MonoBehaviour
T : IDistributingReference
Referenced by ReferenceDistributor.AskReference $<$ T $>$ ().
6.32.2.5 GetReferences< T >()
<pre>static IEnumerable<t> GetReferences< T > (</t></pre>
[carrenmenmenmanne] String Carrenvanne - "") [Intine], [Static]
Getting references by type from list

Template Parameters

Т

Returns

Type Constraints

T: MonoBehaviour

 ${\it T: ID}$ is tributing Reference

6.32.2.6 Initialize()

```
void Initialize ( ) [inline]
```

Initializing distribution references

The documentation for this class was generated from the following file:

· ReferenceDistributor.cs

6.33 ReferencesHeaderAttribute Class Reference

Replacement for Header("References")

Inherits HeaderAttribute.

6.33.1 Detailed Description

Replacement for Header("References")

The documentation for this class was generated from the following file:

· ReferencesHeaderAttribute.cs

6.34 RequireInterfaceAttribute Class Reference

Attribute that require implementation of the provided interface.

Inherits PropertyAttribute.

Public Member Functions

• RequireInterfaceAttribute (Type type)

 $Requiring \ implementation \ of \ the \ T: Core Plugin. Attributes. Validation. Require Interface Attribute \ interface.$

6.34.1 Detailed Description

Attribute that require implementation of the provided interface.

6.34.2 Constructor & Destructor Documentation

6.34.2.1 RequireInterfaceAttribute()

Requiring implementation of the T:CorePlugin.Attributes.Validation.RequireInterfaceAttribute interface.

Parameters

```
type Interface type.
```

The documentation for this class was generated from the following file:

· RequireInterfaceAttribute.cs

6.35 RequireInterfaceDrawer Class Reference

Drawer for the RequireInterface attribute.

Inherits PropertyDrawer.

Public Member Functions

• override void OnGUI (Rect position, SerializedProperty property, GUIContent label)

Overrides GUI drawing for the attribute.

6.35.1 Detailed Description

Drawer for the RequireInterface attribute.

6.35.2 Member Function Documentation

6.35.2.1 OnGUI()

Overrides GUI drawing for the attribute.

Parameters

position	Position.
property	Property.
label	Label.

The documentation for this class was generated from the following file:

• RequireInterfaceDrawer.cs

6.36 RuntimeConsole Class Reference

Main class for RuntimeConsole

Inherits MonoBehaviour.

Public Member Functions

• RuntimeConsole Initialize (Action onMinimized, ConsoleIcons icons)

Initializing RuntimeConsole

• void SetActive (bool state)

Hides or Show console

6.36.1 Detailed Description

Main class for RuntimeConsole

6.36.2 Member Function Documentation

6.36.2.1 Initialize()

Initializing RuntimeConsole

Parameters

onMinimized	Action what will executed on console minimized
icons	

Returns

6.36.2.2 SetActive()

```
void SetActive (
          bool state ) [inline]
```

Hides or Show console

Parameters

state

References UIStateTools.ChangeGroupState().

The documentation for this class was generated from the following file:

· RuntimeConsole.cs

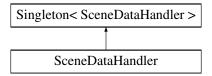
6.37 SceneDataHandler Class Reference

Singleton for passing data between scenes

See also

CorePlugin.Cross.SceneData.Interface.ISceneData

Inheritance diagram for SceneDataHandler:



Public Member Functions

void AddData
 T > (T data)

Adding data to dictionary by passed Type

bool GetData < T > (out T data)

Getting data from dictionary by passed Type

void RemoveData< T > ()

Removing data from dictionary by passed Type

6.37.1 Detailed Description

Singleton for passing data between scenes

See also

CorePlugin.Cross.SceneData.Interface.ISceneData

6.37.2 Member Function Documentation

6.37.2.1 AddData< T >()

Adding data to dictionary by passed Type

Parameters

data

Template Parameters



Type Constraints

T: ISceneData T: new()

6.37.2.2 GetData < T >()

```
bool GetData< T > ( out T data ) [inline]
```

Getting data from dictionary by passed Type

Parameters

data

Template Parameters

Type Constraints

T: ISceneData T: new()

6.37.2.3 RemoveData < T >()

```
void RemoveData< T > ( ) [inline]
```

Removing data from dictionary by passed Type

Template Parameters



Type Constraints

T: ISceneData T: new()

The documentation for this class was generated from the following file:

· SceneDataHandler.cs

6.38 SceneLoader Class Reference

Scene Loader at run-time

Static Public Member Functions

- static void LoadSceneAsync (SceneLoaderAsset asset, LoadSceneOptions loadSceneOptions)

 Loads async SceneLoaderAsset with LoadSceneOptions
- static void LoadSceneAsync (SceneLoaderAsset asset)

Loads async SceneLoaderAsset with default options

6.38.1 Detailed Description

Scene Loader at run-time

6.38.2 Member Function Documentation

6.38.2.1 LoadSceneAsync() [1/2]

Loads async SceneLoaderAsset with default options

Parameters

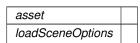
asset

References SceneLoader.LoadSceneAsync().

6.38.2.2 LoadSceneAsync() [2/2]

Loads async SceneLoaderAsset with LoadSceneOptions

Parameters



Referenced by SceneLoader.LoadSceneAsync().

The documentation for this class was generated from the following file:

· SceneLoader.cs

6.39 SceneLoaderAsset Class Reference

Class represents SceneAsset for

See also

CorePlugin.SceneManagement.SceneLoader

6.39.1 Detailed Description

Class represents SceneAsset for

See also

CorePlugin.SceneManagement.SceneLoader

The documentation for this class was generated from the following file:

· SceneLoaderAsset.cs

6.40 SceneLoaderExtensions Class Reference

Extensions for

See also

CorePlugin.SceneManagement.SceneLoader

Static Public Member Functions

static IEnumerator SceneUnloadOperation (this Scene scene, UnloadSceneOptions mode, Action< Async
 — Operation > onSceneReadyToSwitch, Action< float > onProgressChanged=null)

Unloads current Scene

• static bool Until (Action< float > onProgressChanged, AsyncOperation sceneOperation)

Awaits Until sceneOperation ready to switch

 static IEnumerator SceneLoadOperation (this SceneLoaderAsset sceneAsset, LoadSceneMode mode, Action< AsyncOperation > onSceneReadyToSwitch, Action< float > onProgressChanged=null)

Loads SceneLoaderAsset

static IEnumerator SceneUnloadOperation (this string name, UnloadSceneOptions mode, Action< Async
 — Operation > onSceneReadyToSwitch, Action< float > onProgressChanged=null)

Unloads current Scene

6.40.1 Detailed Description

Extensions for

See also

CorePlugin.SceneManagement.SceneLoader

6.40.2 Member Function Documentation

6.40.2.1 SceneLoadOperation()

Loads SceneLoaderAsset

Parameters

sceneAsset	
mode	
onSceneReadyToSwitch	
onProgressChanged	

Returns

References SceneLoaderExtensions.Until().

6.40.2.2 SceneUnloadOperation() [1/2]

Unloads current Scene

Parameters

scene	
mode	
onSceneReadyToSwitch	
onProgressChanged	

Returns

References SceneLoaderExtensions.Until().

6.40.2.3 SceneUnloadOperation() [2/2]

Unloads current Scene

Parameters

name	
mode	
onSceneReadyToSwitch	
onProgressChanged	

Returns

References SceneLoaderExtensions.Until().

6.40.2.4 Until()

Awaits Until sceneOperation ready to switch

Parameters

onProgressChanged	
sceneOperation	

Returns

Referenced by SceneLoaderExtensions.SceneLoadOperation(), and SceneLoaderExtensions.SceneUnload \hookrightarrow Operation().

The documentation for this class was generated from the following file:

• SceneLoaderExtensions.cs

6.41 SceneLoaderSettings Class Reference

Scene Loader Settings

Inherits ScriptableObject.

6.41.1 Detailed Description

Scene Loader Settings

The documentation for this class was generated from the following file:

· SceneLoaderSettings.cs

6.42 SceneLoaderSettingsEditor Class Reference

Editor for

See also

CorePlugin.SceneManagement.SceneLoaderSettings

validation

Inherits Editor.

6.42.1 Detailed Description

Editor for

See also

Core Plugin. Scene Management. Scene Loader Settings

validation

The documentation for this class was generated from the following file:

· SceneLoaderSettingsEditor.cs

6.43 SceneLoaderSettingsValidator Class Reference

Validator class for

See also

CorePlugin.SceneManagement.SceneLoaderSettings

6.43.1 Detailed Description

Validator class for

See also

CorePlugin.SceneManagement.SceneLoaderSettings

The documentation for this class was generated from the following file:

· SceneLoaderSettingsValidator.cs

6.44 SettingsHeaderAttribute Class Reference

Replacement for Header("Settings")

Inherits HeaderAttribute.

6.44.1 Detailed Description

Replacement for Header("Settings")

The documentation for this class was generated from the following file:

• SettingsHeaderAttribute.cs

6.45 Singleton < T > Class Template Reference

Base for all singletons. Strongly recommended to use singletons as little as possible.

Inherits MonoBehaviour.

6.45.1 Detailed Description

Base for all singletons. Strongly recommended to use singletons as little as possible.

Template Parameters



Type Constraints

T: MonoBehaviour

The documentation for this class was generated from the following file:

· Singleton.cs

6.46 StateHeaderAttribute Class Reference

Replacement for Header("State")

Inherits HeaderAttribute.

6.46.1 Detailed Description

Replacement for Header("State")

The documentation for this class was generated from the following file:

· StateHeaderAttribute.cs

6.47 StaticObjectSingleton < T > Class Template Reference

Base for static objects singletons. Strongly recommended to use singletons as little as possible.

Inherits MonoBehaviour.

6.47.1 Detailed Description

Base for static objects singletons. Strongly recommended to use singletons as little as possible.

Template Parameters



Type Constraints

T: MonoBehaviour

The documentation for this class was generated from the following file:

· StaticObjectSingleton.cs

6.48 SubPagesController Class Reference

Class designated for UI subpages.

Inherits MonoBehaviour.

Public Member Functions

void OpenPage (UIPage page)

Showing canvas group sent thought parameter and disabling all others.

void AddPage (UIPage page, out Action openPage)

Adding new UIPage to this subpages controller

• void AddPage (UIPage page, out UnityAction openPage)

Adding new UIPage to this subpages controller

• void DelayedOpenPage (UIPage page)

Enables page interaction after delay

• void DelayedOpenPage (UIPage page, float delay)

Enables page interaction after delay

• void HideAllTables ()

Hides all pages in this subpage controller

6.48.1 Detailed Description

Class designated for UI subpages.

6.48.2 Member Function Documentation

6.48.2.1 AddPage() [1/2]

Adding new UIPage to this subpages controller

Parameters

page	
openPage	

References SubPagesController.OpenPage().

Referenced by UIManager.InitializeElements().

6.48.2.2 AddPage() [2/2]

Adding new UIPage to this subpages controller

Parameters

page	
openPage	

References SubPagesController.OpenPage().

6.48.2.3 DelayedOpenPage() [1/2]

Enables page interaction after delay

Parameters

page

6.48.2.4 DelayedOpenPage() [2/2]

Enables page interaction after delay

Parameters



References UIStateTools.ChangeGroupState(), and SubPagesController.HideAllTables().

6.48.2.5 HideAllTables()

```
void HideAllTables ( ) [inline]
```

Hides all pages in this subpage controller

References UIStateTools.ChangeGroupState().

Referenced by SubPagesController.DelayedOpenPage(), and SubPagesController.OpenPage().

6.48.2.6 OpenPage()

Showing canvas group sent thought parameter and disabling all others.

Parameters

page

 $References\ UIState Tools. Change Group State (), and\ SubPages Controller. Hide All Tables ().$

Referenced by SubPagesController.AddPage().

The documentation for this class was generated from the following file:

· SubPagesController.cs

6.49 SymbolDefiner Class Reference

Class for "Scripting Define Symbols" defining from CoreManager Inspector.

See also

CorePlugin.Core.CoreManager

Public Member Functions

- void ShowSymbolsButtons ()
 - Shows buttons in Inspector.
- void OnEnable ()

Check for whether the are already defined symbols OnEnable

6.49.1 Detailed Description

Class for "Scripting Define Symbols" defining from CoreManager Inspector.

See also

CorePlugin.Core.CoreManager

6.49.2 Member Function Documentation

6.49.2.1 OnEnable()

```
void OnEnable ( ) [inline]
```

Check for whether the are already defined symbols OnEnable

6.49.2.2 ShowSymbolsButtons()

```
void ShowSymbolsButtons ( ) [inline]
```

Shows buttons in Inspector.

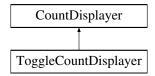
The documentation for this class was generated from the following file:

· SymbolDefiner.cs

6.50 ToggleCountDisplayer Class Reference

Log toggle for CorePlugin.Console.RuntimeConsole

Inheritance diagram for ToggleCountDisplayer:



Public Member Functions

- override CountDisplayer Initialize (Consolelcons icons)
 Initialize CountDisplayer with icons
- override CountDisplayer SetInteractionAction (Action < LogType, bool > onInteractWithDisplayer)
 Setting action when interaction with CountDisplayer happens

6.50.1 Detailed Description

Log toggle for CorePlugin.Console.RuntimeConsole

6.50.2 Member Function Documentation

6.50.2.1 Initialize()

Initialize CountDisplayer with icons

Parameters

icons

Returns

Reimplemented from CountDisplayer.

References CountDisplayer.Initialize().

6.50.2.2 SetInteractionAction()

```
\label{local_count_Displayer} \mbox{SetInteractionAction (} \\ \mbox{Action< LogType, bool} > \mbox{onInteractWithDisplayer}) \mbox{ [inline], [virtual]}
```

Setting action when interaction with CountDisplayer happens

Parameters

onInteractWithDisplayer

Returns

Implements CountDisplayer.

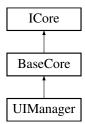
The documentation for this class was generated from the following file:

• ToggleCountDisplayer.cs

6.51 UlManager Class Reference

Base implementation of UlManager.

Inheritance diagram for UIManager:



Public Member Functions

override void InitializeElements ()
 Initializing all managers elements.

6.51.1 Detailed Description

Base implementation of UlManager.

6.51.2 Member Function Documentation

6.51.2.1 InitializeElements()

```
override void InitializeElements ( ) [inline], [virtual]
```

Initializing all managers elements.

Reimplemented from BaseCore.

References SubPagesController.AddPage().

The documentation for this class was generated from the following file:

· UIManager.cs

6.52 UIPage Class Reference

UI page implementation

Inherits MonoBehaviour.

Public Member Functions

• UIPage Initialize ()
Initializes elements for this UIPage

6.52.1 Detailed Description

UI page implementation

6.52.2 Member Function Documentation

6.52.2.1 Initialize()

```
UIPage Initialize ( ) [inline]
```

Initializes elements for this UIPage

Returns

The documentation for this class was generated from the following file:

· UIPage.cs

6.53 UIStateTools Class Reference

UI state tool for canvas groups

Static Public Member Functions

• static void ChangeGroupState (CanvasGroup group, bool isVisible)

Changing canvas visibility and interactivity

• static void ChangeCursorState (bool state)

Changing state of mouse cursor

• static IEnumerator ChangeGroupState (CanvasGroup group, bool isVisible, float delay)

Changing canvas visibility and interactivity after delay

6.53.1 Detailed Description

UI state tool for canvas groups

6.53.2 Member Function Documentation

6.53.2.1 ChangeCursorState()

```
static void ChangeCursorState (
                bool state ) [inline], [static]
```

Changing state of mouse cursor

Parameters

state

6.53.2.2 ChangeGroupState() [1/2]

Changing canvas visibility and interactivity

Parameters

group	
isVisible	

Referenced by SubPagesController.DelayedOpenPage(), SubPagesController.HideAllTables(), SubPages \leftarrow Controller.OpenPage(), ConsoleMessage.SetActive(), MinimizedConsole.SetActive(), and RuntimeConsole. \leftarrow SetActive().

6.53.2.3 ChangeGroupState() [2/2]

Changing canvas visibility and interactivity after delay

Parameters

group	
isVisible	
delay	

The documentation for this class was generated from the following file:

UIStateTools.cs

6.54 Unique Class Reference

Base class for classes that need to be saved in Json file.

Inheritance diagram for Unique:



6.54.1 Detailed Description

Base class for classes that need to be saved in Json file.

The documentation for this class was generated from the following file:

• Unique.cs

6.55 UnityEditorExtension Class Reference

Extensions for Unity Editor classes

Static Public Member Functions

static void HelpBox (string message, MessageType type)

Override for default Inspector HelpBox with RTF text

• static void HelpBox (string message, MessageType type, GUIStyle style)

Override for default Inspector HelpBox with style

static string IconName (MessageType type)

Getting Icon Name from Unity Inspector

6.55.1 Detailed Description

Extensions for Unity Editor classes

6.55.2 Member Function Documentation

6.55.2.1 HelpBox() [1/2]

Override for default Inspector HelpBox with RTF text

Parameters

message	
type	

6.55.2.2 HelpBox() [2/2]

Override for default Inspector HelpBox with style

Parameters

message	
type	
style	

References UnityEditorExtension.IconName().

6.55.2.3 IconName()

Getting Icon Name from Unity Inspector

Parameters

type

Returns

Referenced by UnityEditorExtension.HelpBox().

The documentation for this class was generated from the following file:

• UnityEditorExtension.cs

6.56 UnityExtensions Class Reference

Extension class for default Unity classes

Static Public Member Functions

• static bool IsNotNullAndNotEqual (this IUnique Ici, IUnique rci)

Checks whether the left item is null and doesn't equal right item

static List< T > RemoveRange< T > (this List< T > list, IEnumerable< T > enumerable)

Removing range of items from list

• static void SnapToLatest (this ScrollRect scrollRect, bool reverseOrder)

Scrolls ScrollRect to last item

• static void CopyToClipboard (this string str)

Puts the string into the Clipboard.

• static bool IsNotNullAndEqual (this IUnique Ici, IUnique rci)

Checks whether the left item is null and equals right item

static void Clear< T > (ref List< T > list)

Clearing list and destroying its items

static bool TryToFindObjectOfType< T > (out T result)

Trying to find object on scene that was inherited from T

- static bool TryToFindObjectsOfType < T > (out IEnumerable < T > result)

Trying to find objects on scene that were inherited from T

static bool TryToFindObjectsOfType< T > (out IList< T > result)

Trying to find objects on scene that were inherited from T and return a list of said objects

6.56.1 Detailed Description

Extension class for default Unity classes

6.56.2 Member Function Documentation

6.56.2.1 Clear < T >()

```
static void Clear< T > ( ref List< T > list ) [inline], [static]
```

Clearing list and destroying its items

Parameters

list

Template Parameters

T

Type Constraints

T: MonoBehaviour

6.56.2.2 CopyToClipboard()

Puts the string into the Clipboard.

6.56.2.3 IsNotNullAndEqual()

Checks whether the left item is null and equals right item

Parameters

lci	Left compare item
rci	Right compare item

Returns

6.56.2.4 IsNotNullAndNotEqual()

Checks whether the left item is null and doesn't equal right item

Parameters

lci	Left compare item
rci	Right compare item

Returns

6.56.2.5 RemoveRange< T >()

Removing range of items from list

Parameters

list	
enumerable	

Template Parameters

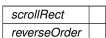


Returns

6.56.2.6 SnapToLatest()

Scrolls ScrollRect to last item

Parameters



6.56.2.7 TryToFindObjectOfType< T >()

Trying to find object on scene that was inherited from $\ensuremath{\mathsf{T}}$

Parameters

result

Template Parameters
T
Returns
6.56.2.8 TryToFindObjectsOfType < T >() [1/2]
<pre>static bool TryToFindObjectsOfType< T > (</pre>
out IEnumerable< T > result) [inline], [static]
Trying to find objects on scene that were inherited from T
Parameters
result
Template Parameters
$\lceil T \rceil$
Returns
6.56.2.9 TryToFindObjectsOfType < T >() [2/2]
0.0012.0 Hy for interspectatinype < 1 > () [2/2]
static bool TryToFindObjectsOfType< T > (
<pre>out IList< T > result) [inline], [static]</pre>
Trying to find objects on scene that were inherited from T and return a list of said objects
Parameters
result
Template Parameters

Returns

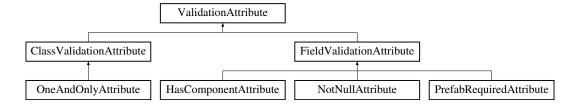
The documentation for this class was generated from the following file:

UnityExtensions.cs

6.57 ValidationAttribute Class Reference

Base attribute for validation

Inheritance diagram for ValidationAttribute:



6.57.1 Detailed Description

Base attribute for validation

The documentation for this class was generated from the following file:

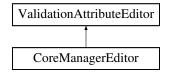
· ValidationAttribute.cs

6.58 ValidationAttributeEditor Class Reference

Custom editor for Unity. Object class. If you want to create your own custom editor inherit from this class.

ValidationAttribute, FieldValidationAttribute, ClassValidationAttribute

Inheritance diagram for ValidationAttributeEditor:



6.58.1 Detailed Description

Custom editor for Unity. Object class. If you want to create your own custom editor inherit from this class.

See also

See also

ValidationAttribute, FieldValidationAttribute, ClassValidationAttribute

The documentation for this class was generated from the following file:

· ValidationAttributeEditor.cs

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