

Core Manager

1.1.2

Generated by Doxygen 1.9.1

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Chapter 1

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.
4. **Cross Scene Data Handler** - data container(not references) which allows data distribution between scenes. Supports both classes and structures.
5. **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.

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.

Chapter 2

Namespace Index

2.1 Namespace List

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

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Chapter 3

Hierarchical Index

3.1 Class Hierarchy

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

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Class Index

4.1 Class List

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DebugLogger	
Custom logger solution for logs	27

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[EventTypes](#)

Declare your delegate type to convert method group to delegate 29

[FieldValidationAttribute](#)[Base](#) attribute for field validation 30

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[HasComponentAttribute](#)

Attribute validating whether Object in field or all objects in the list have desired component 34

[ICore](#)[Interface](#) for Manager declaration 34[IDistributingReference](#)

Flag interface for MonoBehaviour classes what need to referenced from another class 35

[IEventHandler](#)[Interface](#) for event handler 35[IEventSubscriber](#)[Interface](#) for subscribers 37

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[ItemHider](#)[UI](#) element hider. Useful than needed to hide elements on [UI](#) change its' size 38[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 39[LoadSceneOptions](#)

Loading Scene Options 39

[MinimizeCountDisplay](#)Log count displayer for [CorePlugin.Console.RuntimeConsole](#) 40[MinimizedConsole](#)

Minimized console 41

[MovableInsideScreen](#)Class for moving [UI](#) objects inside screen 42[Named< TName, TKey, TValue >](#)

Replacement for dictionary in Unity Inspector 42

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PrefabHeaderAttribute	Replacement for Header("Prefabs")	44
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ReferenceDistributor	Class responsible for reference distribution inside one scene	45
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Chapter 5

Namespace Documentation

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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

[CorePlugin.ReferenceDistribution.ReferenceDistributor](#), [CorePlugin.Core.Interface.ICore](#)
- 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 [IEventHandler](#)
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
See also
[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
[CorePlugin.SceneManagement.SceneLoaderSettings](#)
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.
See also*
[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 be 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
See also
[CorePlugin.SceneManagement.SceneLoader](#)
- class [SceneLoaderExtensions](#)
Extensions for
See also
[CorePlugin.SceneManagement.SceneLoader](#)
- 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 [UIManager](#).

5.35 CorePlugin.UISystem.UI Namespace Reference

Classes

- class [SubPagesController](#)
Class designated for [UI](#) subpages.
- class [UIPage](#)
[UI](#) page implementation

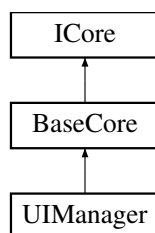
Chapter 6

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

6.1.2.1 InitializeElements()

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

Initializing all managers elements.

Implements [ICore](#).

Reimplemented in [UIManager](#).

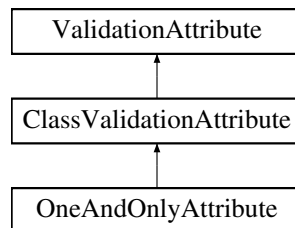
The documentation for this class was generated from the following file:

- 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 ConsoleIcons 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:

- ConsoleIcons.cs

6.4 ConsoleInitializer 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.RuntimeConsole](#)

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

6.5.1 Detailed Description

Log message for [CorePlugin.Console.RuntimeConsole](#)

6.5.2 Member Function Documentation

6.5.2.1 ClearHighlight()

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

Clear highlight marks

6.5.2.2 HighlightText()

```
ConsoleMessage HighlightText (
    string text ) [inline]
```

Sets highlight marks

6.5.2.3 Initialize()

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

Initializing console message

Parameters

<i>logText</i>	
<i>stackTrace</i>	
<i>logType</i>	
<i>settings</i>	

Returns

Exceptions

<i>ArgumentOutOfRangeException</i>	
------------------------------------	--

6.5.2.4 SetActive()

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

Setting active message in console

Parameters

<i>state</i>	
--------------	--

References `UIStateTools.ChangeGroupState()`.

6.5.2.5 SubscribeOnButtonClick()

```
ConsoleMessage SubscribeOnButtonClick (
    Action< string > onClickAction ) [inline]
```

Subscribes action to message button

Parameters

<i>onClickAction</i>	
----------------------	--

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](#)

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

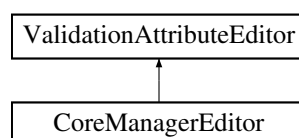
6.8 CoreManagerEditor Class Reference

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](#)

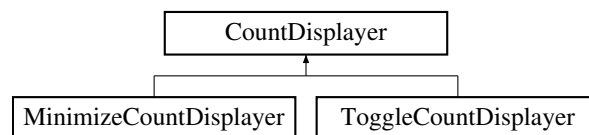
The documentation for this class was generated from the following file:

- CoreManagerEditor.cs

6.9 CountDisplayer Class Reference

Log count displayer for [CorePlugin.Console.RuntimeConsole](#)

Inheritance diagram for CountDisplayer:



Public Member Functions

- virtual [CountDisplayer Initialize](#) ([ConsoleIcons](#) 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()

```
virtual CountDisplayer Initialize (
    ConsoleIcons icons ) [inline], [virtual]
```

Initialize [CountDisplayer](#) with icons

Parameters

<i>icons</i>	
--------------	--

Returns

Reimplemented in [ToggleCountDisplayer](#), and [MinimizeCountDisplayer](#).

Referenced by `ToggleCountDisplayer.Initialize()`.

6.9.2.2 OnLogCountChanged()

```
virtual void OnLogCountChanged (
    HashSet< LogType > types,
    int count ) [inline], [virtual]
```

Displaying new count

Parameters

<i>types</i>	
<i>count</i>	

6.9.2.3 SetInteractionAction()

```
abstract CountDisplayer SetInteractionAction (
    Action< LogType, bool > onInteractWithDisplayer ) [pure virtual]
```

Setting action when interaction with [CountDisplayer](#) happens

Parameters

<i>onInteractWithDisplayer</i>	
--------------------------------	--

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 `DEBUG` and `ENABLE_RELEASE_LOGS`. If `ENABLE_RELEASE_LOGS` defined logs will displayed in Release Build. Otherwise only [Editor](#) and Developer 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()

```
static void AddHandler (
    IEventHandler handler,
    bool subscriptionsNeeded = true,
    bool invokeNeeded = false ) [inline], [static]
```

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

Parameters

<i>handler</i>	
<i>subscriptionsNeeded</i>	If false invokeNeeded will not be called
<i>invokeNeeded</i>	

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()

```
static void RemoveHandler (
    IEventHandler handler ) [inline], [static]
```

Removing event handler after scene has Awoken from list

Parameters

<i>handler</i>	
----------------	--

6.11.2.5 Subscribe()

```
static void Subscribe (
    IEventSubscriber subscriber ) [inline], [static]
```

Subscribing event subscriber after scene has Awoken to event handlers.

Parameters

<i>subscriber</i>	
-------------------	--

6.11.2.6 Unsubscribe()

```
static void Unsubscribe (
    IEventSubscriber subscriber ) [inline], [static]
```

Unsubscribing event subscriber after scene has Awoken from event handlers.

Parameters

<i>subscriber</i>	
-------------------	--

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](#)

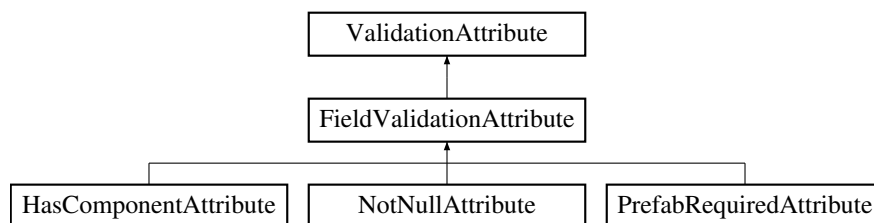
The documentation for this class was generated from the following file:

- 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)
Loads file.
- 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 (  
    string path ) [inline]
```

Overloaded constructor which changes default path.

Parameters

<i>path</i>	
-------------	--

6.14.2.3 FileSystem() [3/3]

```
FileSystem (  
    string path,  
    string extension ) [inline]
```

Overloaded constructor which changes default path and file extension.

Parameters

<i>path</i>	
<i>extension</i>	

6.14.3 Member Function Documentation

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

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

Loads file.

Parameters

<i>onLoaded</i>	
<i>onError</i>	
<i>context</i>	Required if errors should be shown on Object

Template Parameters

<i>T</i>	
----------	--

Type Constraints

***T* : Unique**

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

```
void Load< T > (
    string fileName,
    Action< T > onLoaded,
    Action< Exception > onError,
    Object context = null ) [inline]
```

Loads file with different file name from passed class.

Parameters

<i>fileName</i>	
<i>onLoaded</i>	
<i>onError</i>	
<i>context</i>	Required if errors should be shown on Object

Template Parameters

<i>T</i>	
----------	--

Type Constraints

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

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

Saves class to the file with the name of class.

Parameters

<i>data</i>	
<i>onError</i>	
<i>context</i>	Required if errors should be shown on Object

Template Parameters

<i>T</i>	
----------	--

Type Constraints

T : Unique**6.14.3.4 Save< T >() [2/2]**

```
void Save< T > (
    T data,
    string fileName,
    Action< Exception > onError,
    Object context = null ) [inline]
```

Saves your class to file.

Parameters

<i>data</i>	
<i>fileName</i>	
<i>onError</i>	
<i>context</i>	Required if errors should be shown on Object

Template Parameters

<i>T</i>	
----------	--

Type Constraints

T : Unique

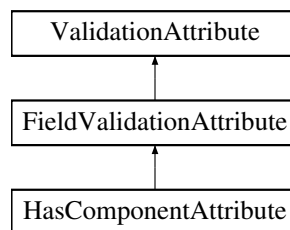
The documentation for this class was generated from the following file:

- 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.

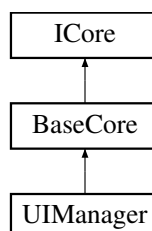
The documentation for this class was generated from the following file:

- 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()

```
void Subscribe (
    Delegate[] subscribers )
```

Subscribing delegates to event

Parameters

<i>subscribers</i>	
--------------------	--

Referenced by `EventInitializer.AddHandler()`.

6.18.2.3 Unsubscribe()

```
void Unsubscribe (
    Delegate[] unsubscribers )
```

Unsubscribing delegates to event

Parameters

<i>unsubscribers</i>	
----------------------	--

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

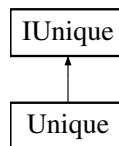
The documentation for this class was generated from the following file:

- 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

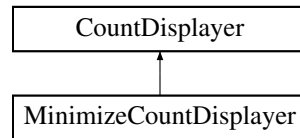
The documentation for this class was generated from the following file:

- LoadSceneOptions.cs

6.24 MinimizeCountDisplay Class Reference

Log count displayer for [CorePlugin.Console.RuntimeConsole](#)

Inheritance diagram for MinimizeCountDisplay:



Public Member Functions

- override [CountDisplay Initialize](#) ([ConsoleIcons](#) icons)
Initialize [CountDisplay](#) with icons
- override [CountDisplay SetInteractionAction](#) (Action< LogType, bool > onInteractWithDisplayer)
Setting action when interaction with [CountDisplay](#) happens

6.24.1 Detailed Description

Log count displayer for [CorePlugin.Console.RuntimeConsole](#)

6.24.2 Member Function Documentation

6.24.2.1 Initialize()

```
override CountDisplay Initialize (  
    ConsoleIcons icons ) [inline], [virtual]
```

Initialize [CountDisplay](#) with icons

Parameters

<i>icons</i>	
--------------	--

Returns

Reimplemented from [CountDisplay](#).

6.24.2.2 SetInteractionAction()

```
override CountDisplayer SetInteractionAction (
    Action< LogType, bool > onInteractWithDisplayer ) [inline], [virtual]
```

Setting action when interaction with [CountDisplayer](#) happens

Parameters

<i>onInteractWithDisplayer</i>	
--------------------------------	--

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, [ConsoleIcons](#) 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()

```
MinimizedConsole Initialize (
    Action onMaximized,
    ConsoleIcons icons ) [inline]
```

Initializing [MinimizedConsole](#)

Parameters

<i>onMaximized</i>	
<i>icons</i>	

Returns**6.25.2.2 SetActive()**

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

Hides or Show console

Parameters

<i>state</i>	
--------------	--

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

<i>TKey</i>	
<i>TValue</i>	

Template Parameters

<i>TName</i>	
<i>TKey</i>	
<i>TValue</i>	

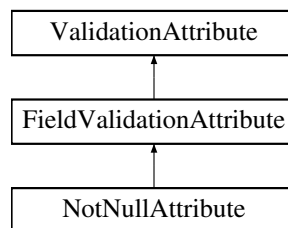
The documentation for this class was generated from the following file:

- 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.

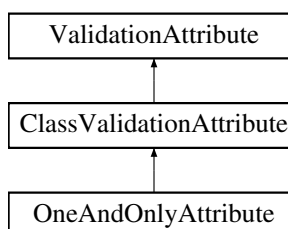
The documentation for this class was generated from the following file:

- 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")

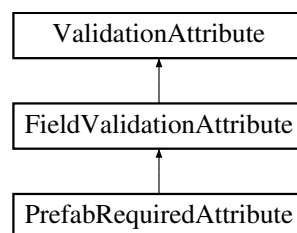
The documentation for this class was generated from the following file:

- 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 ReferenceDistributor 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
- 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 >()

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

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

<i>reference</i>	
------------------	--

Template Parameters

<i>T</i>	
----------	--

Returns

Type Constraints

T : MonoBehaviour
T : IDistributingReference

References ReferenceDistributor.GetReference< T >().

6.32.2.2 GetInterfaceReference< T >()

```
static T GetInterfaceReference< T > (
    [CallerMemberName] string callerName = "" ) [inline], [static]
```

Getting reference by type from list

Template Parameters

<i>T</i>	
----------	--

Returns

Type Constraints

T : IDistributingReference

6.32.2.3 GetInterfaceReferences< T >()

```
static IEnumerable<T> GetInterfaceReferences< T > (
    [CallerMemberName] string callerName = "" ) [inline], [static]
```

Getting reference by type from list

Template Parameters

<i>T</i>	
----------	--

Returns

Type Constraints

T : IDistributingReference

6.32.2.4 GetReference< T >()

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

Getting reference by type from list

Template Parameters

<i>T</i>	
----------	--

Returns

Type Constraints

T : MonoBehaviour
T : IDistributingReference

Referenced by ReferenceDistributor.AskReference< T >().

6.32.2.5 GetReferences< T >()

```
static IEnumerable<T> GetReferences< T > (  
    [CallerMemberName] string callerName = "" ) [inline], [static]
```

Getting references by type from list

Template Parameters

<i>T</i>	
----------	--

Returns

Type Constraints

T : MonoBehaviour

T : IDistributingReference

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:CorePlugin.Attributes.Validation.RequireInterfaceAttribute 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()

```
RequireInterfaceAttribute (
    Type type ) [inline]
```

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

Parameters

<i>type</i>	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()

```
override void OnGUI (
    Rect position,
    SerializedProperty property,
    GUIContent label ) [inline]
```

Overrides GUI drawing for the attribute.

Parameters

<i>position</i>	Position.
<i>property</i>	Property.
<i>label</i>	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()

```
RuntimeConsole Initialize (
    Action onMinimized,
    ConsoleIcons icons ) [inline]
```

Initializing [RuntimeConsole](#)

Parameters

<i>onMinimized</i>	Action what will executed on console minimized
<i>icons</i>	

Returns

6.36.2.2 SetActive()

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

Hides or Show console

Parameters

<i>state</i>	
--------------	--

References `UIStateTools.ChangeGroupState()`.

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

- `RuntimeConsole.cs`

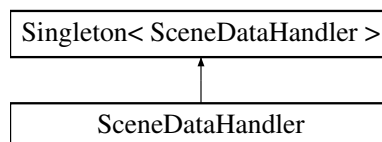
6.37 SceneDataHandler Class Reference

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 >()

```
void AddData< T > (  
    T data ) [inline]
```

Adding data to dictionary by passed Type

Parameters

<i>data</i>	
-------------	--

Template Parameters

<i>T</i>	
----------	--

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

<i>data</i>	
-------------	--

Template Parameters

<i>T</i>	
----------	--

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

<i>T</i>	
----------	--

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]

```
static void LoadSceneAsync (
    SceneLoaderAsset asset ) [inline], [static]
```

Loads async [SceneLoaderAsset](#) with default options

Parameters

<i>asset</i>	
--------------	--

References [SceneLoader.LoadSceneAsync\(\)](#).

6.38.2.2 LoadSceneAsync() [2/2]

```
static void LoadSceneAsync (
    SceneLoaderAsset asset,
    LoadSceneOptions loadSceneOptions ) [inline], [static]
```

Loads async [SceneLoaderAsset](#) with [LoadSceneOptions](#)

Parameters

<i>asset</i>	
<i>loadSceneOptions</i>	

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< AsyncOperation > 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< AsyncOperation > 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()

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

Loads [SceneLoaderAsset](#)

Parameters

<i>sceneAsset</i>	
<i>mode</i>	
<i>onSceneReadyToSwitch</i>	
<i>onProgressChanged</i>	

Returns

References SceneLoaderExtensions.Until().

6.40.2.2 SceneUnloadOperation() [1/2]

```
static IEnumerator SceneUnloadOperation (
    this Scene scene,
    UnloadSceneOptions mode,
    Action< AsyncOperation > onSceneReadyToSwitch,
    Action< float > onProgressChanged = null ) [inline], [static]
```

Unloads current Scene

Parameters

<i>scene</i>	
<i>mode</i>	
<i>onSceneReadyToSwitch</i>	
<i>onProgressChanged</i>	

Returns

References SceneLoaderExtensions.Until().

6.40.2.3 SceneUnloadOperation() [2/2]

```
static IEnumerator SceneUnloadOperation (
    this string name,
    UnloadSceneOptions mode,
    Action< AsyncOperation > onSceneReadyToSwitch,
    Action< float > onProgressChanged = null ) [inline], [static]
```

Unloads current Scene

Parameters

<i>name</i>	
<i>mode</i>	
<i>onSceneReadyToSwitch</i>	
<i>onProgressChanged</i>	

Returns

References SceneLoaderExtensions.Until().

6.40.2.4 Until()

```
static bool Until (
    Action< float > onProgressChanged,
    AsyncOperation sceneOperation ) [inline], [static]
```

Awaits Until sceneOperation ready to switch

Parameters

<i>onProgressChanged</i>	
<i>sceneOperation</i>	

Returns

Referenced by SceneLoaderExtensions.SceneLoadOperation(), and SceneLoaderExtensions.SceneUnloadOperation().

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

[CorePlugin.SceneManagement.SceneLoaderSettings](#)

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

<i>T</i>	
----------	--

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

<i>T</i>	
----------	--

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]

```
void AddPage (
    UIPage page,
    out Action openPage ) [inline]
```

Adding new [UIPage](#) to this subpages controller

Parameters

<i>page</i>	
<i>openPage</i>	

References [SubPagesController.OpenPage\(\)](#).

Referenced by [UIManager.InitializeElements\(\)](#).

6.48.2.2 [AddPage\(\)](#) [2/2]

```
void AddPage (
    UIPage page,
    out UnityAction openPage ) [inline]
```

Adding new [UIPage](#) to this subpages controller

Parameters

<i>page</i>	
<i>openPage</i>	

References SubPagesController.OpenPage().

6.48.2.3 DelayedOpenPage() [1/2]

```
void DelayedOpenPage (
    UIPage page ) [inline]
```

Enables page interaction after delay

Parameters

<i>page</i>	
-------------	--

6.48.2.4 DelayedOpenPage() [2/2]

```
void DelayedOpenPage (
    UIPage page,
    float delay ) [inline]
```

Enables page interaction after delay

Parameters

<i>page</i>	
<i>delay</i>	

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()

```
void OpenPage (
    UIPage page ) [inline]
```

Showing canvas group sent thought parameter and disabling all others.

Parameters

<i>page</i>	
-------------	--

References [UIStateTools.ChangeGroupState\(\)](#), and [SubPagesController.HideAllTables\(\)](#).

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.

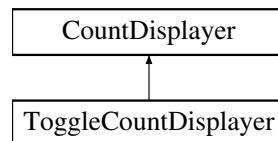
The documentation for this class was generated from the following file:

- SymbolDefiner.cs

6.50 ToggleCountDisplayer Class Reference

Log toggle for [CorePlugin.Console.RuntimeConsole](#)

Inheritance diagram for ToggleCountDisplayer:



Public Member Functions

- override [CountDisplayer Initialize](#) ([ConsoleIcons](#) 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()

```
override CountDisplayer Initialize (
    ConsoleIcons icons ) [inline], [virtual]
```

Initialize [CountDisplayer](#) with icons

Parameters

<i>icons</i>	
--------------	--

Returns

Reimplemented from [CountDisplay](#).

References [CountDisplay.Initialize\(\)](#).

6.50.2.2 SetInteractionAction()

```
override CountDisplay SetInteractionAction (
    Action< LogType, bool > onInteractWithDisplay ) [inline], [virtual]
```

Setting action when interaction with [CountDisplay](#) happens

Parameters

<i>onInteractWithDisplay</i>	
------------------------------	--

Returns

Implements [CountDisplay](#).

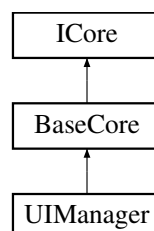
The documentation for this class was generated from the following file:

- [ToggleCountDisplay.cs](#)

6.51 UIManager Class Reference

Base implementation of [UIManager](#).

Inheritance diagram for UIManager:



Public Member Functions

- override void [InitializeElements](#) ()
Initializing all managers elements.

6.51.1 Detailed Description

Base implementation of [UIManager](#).

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

<i>state</i>	
--------------	--

6.53.2.2 ChangeGroupState() [1/2]

```
static void ChangeGroupState (
    CanvasGroup group,
    bool isVisible ) [inline], [static]
```

Changing canvas visibility and interactivity

Parameters

<i>group</i>	
<i>isVisible</i>	

Referenced by SubPagesController.DelayedOpenPage(), SubPagesController.HideAllTables(), SubPagesController.OpenPage(), ConsoleMessage.SetActive(), MinimizedConsole.SetActive(), and RuntimeConsole.SetActive().

6.53.2.3 ChangeGroupState() [2/2]

```
static IEnumerator ChangeGroupState (
    CanvasGroup group,
    bool isVisible,
    float delay ) [inline], [static]
```

Changing canvas visibility and interactivity after delay

Parameters

<i>group</i>	
<i>isVisible</i>	
<i>delay</i>	

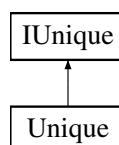
The documentation for this class was generated from the following file:

- 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]

```
static void HelpBox (
    string message,
    MessageType type ) [inline], [static]
```

Override for default Inspector HelpBox with RTF text

Parameters

<i>message</i>	
<i>type</i>	

6.55.2.2 HelpBox() [2/2]

```
static void HelpBox (  
    string message,  
    MessageType type,  
    GUIStyle style ) [inline], [static]
```

Override for default Inspector HelpBox with style

Parameters

<i>message</i>	
<i>type</i>	
<i>style</i>	

References UnityEditorExtension.IconName().

6.55.2.3 IconName()

```
static string IconName (  
    MessageType type ) [inline], [static]
```

Getting Icon Name from Unity Inspector

Parameters

<i>type</i>	
-------------	--

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](#) lci, [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](#) lci, [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 [TryFindObjectOfType< T >](#) (out T result)
Trying to find object on scene that was inherited from T
- static bool [TryFindObjectTypesOfType< T >](#) (out IEnumerable< T > result)
Trying to find objects on scene that were inherited from T
- static bool [TryFindObjectTypesOfType< 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

<i>list</i>	
-------------	--

Template Parameters

<i>T</i>	
----------	--

Type Constraints

***T* : [MonoBehaviour](#)**

6.56.2.2 CopyToClipboard()

```
static void CopyToClipboard (  
    this string str ) [inline], [static]
```

Puts the string into the Clipboard.

6.56.2.3 IsNotNullAndEqual()

```
static bool IsNotNullAndEqual (  
    this IUnique lci,  
    IUnique rci ) [inline], [static]
```

Checks whether the left item is null and equals right item

Parameters

<i>lci</i>	Left compare item
<i>rci</i>	Right compare item

Returns

6.56.2.4 IsNotNullAndNotEqual()

```
static bool IsNotNullAndNotEqual (  
    this IUnique lci,  
    IUnique rci ) [inline], [static]
```

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

Parameters

<i>lci</i>	Left compare item
<i>rci</i>	Right compare item

Returns

6.56.2.5 RemoveRange< T >()

```
static List<T> RemoveRange< T > (
    this List< T > list,
    IEnumerable< T > enumerable ) [inline], [static]
```

Removing range of items from list

Parameters

<i>list</i>	
<i>enumerable</i>	

Template Parameters

<i>T</i>	
----------	--

Returns**6.56.2.6 SnapToLatest()**

```
static void SnapToLatest (
    this ScrollRect scrollRect,
    bool reverseOrder ) [inline], [static]
```

Scrolls ScrollRect to last item

Parameters

<i>scrollRect</i>	
<i>reverseOrder</i>	

6.56.2.7 TryFindObjectOfType< T >()

```
static bool TryFindObjectOfType< T > (
    out T result ) [inline], [static]
```

Trying to find object on scene that was inherited from T

Parameters

<i>result</i>	
---------------	--

Template Parameters

<i>T</i>	
----------	--

Returns

6.56.2.8 TryToFindObjectsOfType< T >() [1/2]

```
static bool TryToFindObjectsOfType< T > (
    out IEnumerable< T > result )    [inline], [static]
```

Trying to find objects on scene that were inherited from T

Parameters

<i>result</i>	
---------------	--

Template Parameters

<i>T</i>	
----------	--

Returns

6.56.2.9 TryToFindObjectsOfType< T >() [2/2]

```
static bool TryToFindObjectsOfType< T > (
    out IList< T > result )    [inline], [static]
```

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

Parameters

<i>result</i>	
---------------	--

Template Parameters

<i>T</i>	
----------	--

Returns

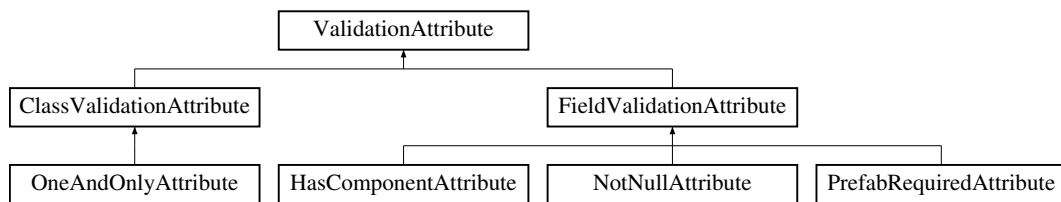
The documentation for this class was generated from the following file:

- 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

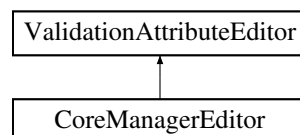
6.58 ValidationAttributeEditor Class Reference

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

See also

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

ValidationAttribute, FieldValidationAttribute, ClassValidationAttribute

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

- ValidationAttributeEditor.cs

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