

Advanced Scene Manager

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

ActionUtility	Contains utility functions for Action	19
App	Manages startup and quit	20
ASMFilePathAttribute	A FilePathAttribute that supports build	21
ASMInfo	Gets version info about ASM	22
ASMModel	A base class for Profile, SceneCollection and Scene	22
ASMSceneHelper	Represents scene helper. Contains functions for opening / closing collections and scenes from UnityEngine.Events.UnityEvent	24
ASMScriptableSingleton< T >	A ScriptableSingleton<T> that supports build	26
ASMSettings	Contains the core of ASM assets. Contains projectSettings and assets	27
Assets	Manages all ASM assets	28
AssetSearchUtility	Provides utility functions for searching ASM assets	29
AssetsProxy	Provides access to the scenes, collections and profiles managed by ASM	30
Async< T >	Represents a async operation that returns a value	30
BuildOption	Represents an enabled state depending on build context (editor, dev build, non-dev build) . . .	31
Callback	Represents a callback that can be run on Phase change, or right before loading screen hide (or when it would, if it was enabled)	31
CallbackUtility	An utility class that invokes callbacks (defined in interfaces based on ISceneCallbacks), and tracks performance and provides tools for optimizing and diagnosing bottlenecks in these call- backs	34
CanvasGroupExtensions	Provides extension methods for CanvasGroup	34

CanvasSortOrderUtility	
An utility class to manage sort order on canvases	34
CoroutineUtility	
An utility class that helps with running coroutines detached from MonoBehaviour	35
CrossSceneReference	
A reference to a variable that references another object in some other scene	36
CrossSceneReferenceUtility	
An utility for saving and restoring cross-scene references	37
DefaultScenes	
Provides access to the default ASM scenes	38
ProfileDependent< T >.Dict	
A dictionary of type Profile, T	40
DictionaryUtility	
Contains utility functions for working with dictionaries	41
DynamicCollection	
Represents a collection that can take a path and then gather all scenes within, guaranteeing that they are all added to build, including non-imported and blacklisted scenes	41
CoroutineUtility.Events	
Provides events for coroutine events	42
FallbackSceneUtility	
An utility class that manages the default scene, called 'AdvancedSceneManager'	44
CallbackUtility.FluentInvokeAPI< T >	
An helper class to facilitate a fluent api	44
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Represents a IEnumerator coroutine started using CoroutineUtility	45
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Initializes a class in editor on recompile	61
InputBinding	
Represents a input binding for InputSystem. Available even when InputSystem is uninstalled	61
InputButton	
Specifies a input binding for use with InputSystem	62

IQueueable	Represents a queueable item	62
ISceneCallbacks	Base interface for ISceneOpen, ISceneClose, ICollectionOpen, ICollectionClose. Does nothing on its own, used by CallbackUtility	63
ISceneClose	Callback for when the scene that a MonoBehaviour is contained within is closed	64
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ISceneCollection	Represents the core variables of what makes up a scene collection	65
ISceneOpen	Callback for when the scene that a MonoBehaviour is contained within is opened	66
ISceneOpenAsync	66
LerpUtility	Provides some convenience functions for lerping	67
LoadingScreen	A class that contains callbacks for loading screens	67
LoadingScreenBase	A generic base class for loading screens. You probably want to inherit from LoadingScreen though	69
LoadingScreenUtility	Manager for loading screens	70
MainThreadUtility	71
ObjectReference	A reference to an object in a scene	73
ParallelASMCallbacks	Specifies whatever the ASM callbacks should be run in parallel for any callbacks defined in this script	73
Profile	A profile, contains settings, collections	74
ProfileDependent< T >	Specifies a <i>T</i> that changes depending on active Profile	77
ProfileDependentCollection	Represents a SceneCollection that changes depending on active Profile	78
ProfileDependentScene	Represents a Scene that changes depending on active Profile	81
App.Props	An object that persists start properties across domain reload, which is needed when configurable enter play mode is set to reload domain on enter play mode	83
QueueUtility< T >	A utility that provides queuing	85
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A class that contains callbacks for splash screens	125
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Represents a collection of standalone scenes. These scenes are guaranteed to be included in build (if the associated Profile is active)	126

Chapter 3

Namespace Documentation

3.1 AdvancedSceneManager Namespace Reference

Classes

- class [SceneManager](#)

The central Advanced Scene Manager API. Provides access to the most important things in ASM.

3.2 AdvancedSceneManager.Callbacks Namespace Reference

Classes

- class [ActionUtility](#)

Contains utility functions for Action.

- class [CallbackUtility](#)

An utility class that invokes callbacks (defined in interfaces based on [ISceneCallbacks](#)), and tracks performance and provides tools for optimizing and diagnosing bottlenecks in these callbacks.

- interface [ICollectionClose](#)
- interface [ICollectionCloseAsync](#)
- interface [ICollectionExtraDataCallbacks](#)

Callbacks for a ScriptableObject that has been set as extra data for a collection.

- interface [ICollectionExtraDataCallbacksAsync](#)

Callbacks for a ScriptableObject that has been set as extra data for a collection.

- interface [ICollectionOpen](#)
- interface [ICollectionOpenAsync](#)
- interface [ISceneCallbacks](#)

Base interface for [ISceneOpen](#), [ISceneClose](#), [ICollectionOpen](#), [ICollectionClose](#). Does nothing on its own, used by [CallbackUtility](#).

- interface [ISceneClose](#)

Callback for when the scene that a MonoBehaviour is contained within is closed.

- interface [ISceneCloseAsync](#)
- interface [ISceneOpen](#)

Callback for when the scene that a MonoBehaviour is contained within is opened.

- interface [ISceneOpenAsync](#)
- class [LoadingScreen](#)

- A class that contains callbacks for loading screens.*
- class [LoadingScreenBase](#)

A generic base class for loading screens. You probably want to inherit from LoadingScreen though.
- class [ParallelASMCallbacks](#)

Specifies whatever the ASM callbacks should be run in parallel for any callbacks defined in this script.
- class [SplashScreen](#)

A class that contains callbacks for splash screens.

3.3 AdvancedSceneManager.Core Namespace Reference

Classes

- class [App](#)

Manages startup and quit.
- class [Callback](#)

Represents a callback that can be run on Phase change, or right before loading screen hide (or when it would, if it was enabled).
- class [Runtime](#)

Manages runtime functionality for Advanced Scene Manager such as open scenes and collection.
- class [SceneLoadArgs](#)

Specifies arguments for SceneLoader.LoadScene(Models.Scene, SceneLoadArgs).
- class [SceneLoader](#)

Specifies a scene loader.
- class [SceneLoaderArgsBase](#)

Base class for SceneLoadArgs and SceneUnloadArgs.
- class [SceneOperation](#)

A scene operation is a queueable operation that can open or close scenes. See also: SceneAction.
- class [SceneUnloadArgs](#)

Specifies arguments for SceneLoader.UnloadScene(Models.Scene, SceneUnloadArgs).

Enumerations

- enum [Phase](#) {
[CloseCallbacks](#) , [UnloadScenes](#) , [LoadScenes](#) , [OpenCallbacks](#) ,
[CustomActions](#) }

The phase that a SceneOperation is currently in.

3.3.1 Enumeration Type Documentation

3.3.1.1 Phase

enum [Phase](#)

The phase that a SceneOperation is currently in.

Enumerator

CloseCallbacks	The scene operation is currently executing close callbacks on the scenes that are being closed, if any.
UnloadScenes	The scene operation is currently unloading the scenes, if any.
LoadScenes	The scene operation is currently loading the scenes, if any.
OpenCallbacks	The scene operation is currently executing open callbacks on the scenes that are being opened, if any.
CustomActions	The scene operation is currently executing custom actions, added through SceneOperation.WithAction(SceneAction[]) or similar methods, if any.

3.4 AdvancedSceneManager.Models Namespace Reference

Classes

- class [ASMMModel](#)
A base class for Profile, SceneCollection and Scene.
- class [ASMSceneHelper](#)
Represents scene helper. Contains functions for opening / closing collections and scenes from UnityEngine.Events.↔ UnityEvent.
- class [ASMSettings](#)
Contains the core of ASM assets. Contains projectSettings and assets
- class [DynamicCollection](#)
Represents a collection that can take a path and then gather all scenes within, guaranteeing that they are all added to build, including non-imported and blacklisted scenes.
- interface [ILockable](#)
Specifies a object that can be locked, using LockUtility.
- class [InputBinding](#)
Represents a input binding for InputSystem. Available even when InputSystem is uninstalled.
- struct [InputButton](#)
Specifies a input binding for use with InputSystem.
- interface [ISceneCollection](#)
Represents the core variables of what makes up a scene collection.
- class [Profile](#)
A profile, contains settings, collections.
- class [Scene](#)
Represents a scene.
- class [SceneCollection](#)
Represents a collection of scenes.
- class [SceneCollectionExtensions](#)
Provides utility methods for working with SceneCollection.
- class [StandaloneCollection](#)
Represents a collection of standalone scenes. These scenes are guaranteed to be included in build (if the associated Profile is active).

Enumerations

- enum [InputBindingInteractionType](#) { [Open](#) , [Hold](#) , [Toggle](#) }
Specifies the interaction type to use for scene bindings.

3.4.1 Enumeration Type Documentation

3.4.1.1 InputBindingInteractionType

enum `InputBindingInteractionType`

Specifies the interaction type to use for scene bindings.

Enumerator

Open	Specifies that the scene or collection will be opened automatically, but not closed.
Hold	Specifies that the scene or collection will be opened automatically on button down, then closed on button up.
Toggle	Specifies that the scene or collection will be opened automatically on button down, then closed on next button down.

3.5 AdvancedSceneManager.Models.Enums Namespace Reference

Enumerations

- enum `CollectionLoadingThreadPriority` {
`Auto` = -2 , `Low` = `ThreadPriority.Low` , `BelowNormal` = `ThreadPriority.BelowNormal` , `Normal` = `ThreadPriority.Normal` ,
`High` = `ThreadPriority.High` }
Wrapper for ThreadPriority, adds CollectionLoadingThreadPriority.Auto.
- enum `CollectionStartupOption` { `Auto` , `Open` , `DoNotOpen` }
Specifies what to do with a SceneCollection during startup.
- enum `EditorPersistentOption` { `Never` , `WhenAnyOfTheFollowingScenesAreOpened` , `AnySceneOpened` }
Specifies whatever a scene should be automatically opened outside of play-mode.
- enum `LoadingScreenUsage` { `DoNotUse` , `UseDefault` , `Override` }
Specifies what loading screen to use, if any.
- enum `SceneImportOption` { `Manual` , `SceneCreated` }
Specifies how to scenes are imported.
- enum `SceneState` {
`Unknown` , `NotOpen` , `Queued` , `Opening` ,
`Preloading` , `Preloaded` , `Open` }
Specifies that state of a scene.

3.5.1 Enumeration Type Documentation

3.5.1.1 CollectionLoadingThreadPriority

enum `CollectionLoadingThreadPriority`

Wrapper for ThreadPriority, adds CollectionLoadingThreadPriority.Auto.

ThreadPriority:

Enumerator

Auto	Automatically decide ThreadPriority based on if loading screen is open.
Low	Lowest thread priority.
BelowNormal	Below normal thread priority.
Normal	Normal thread priority.
High	Highest thread priority.

3.5.1.2 CollectionStartupOption

enum `CollectionStartupOption`

Specifies what to do with a SceneCollection during startup.

Enumerator

Auto	Specifies that ASM should automatically decide if a SceneCollection should be opened during startup. This means that if no collection in the list specifies either Open or OpenAsPersistent, then the first collection in the list that has Auto will be opened.
Open	Specifies that a SceneCollection will open during startup.
DoNotOpen	Specifies that a SceneCollection will not open during startup.

3.5.1.3 EditorPersistentOption

enum `EditorPersistentOption`

Specifies whatever a scene should be automatically opened outside of play-mode.

Enumerator

Never	Never automatically open scene.
WhenAnyOfTheFollowingScenesAreOpened	Automatically open scene when any specified scene is opened.
AnySceneOpened	Automatically open scene when any scene opens.

3.5.1.4 LoadingScreenUsage

enum `LoadingScreenUsage`

Specifies what loading screen to use, if any.

Enumerator

DoNotUse	Specifies no loading screen.
UseDefault	Specifies default loading screen, defined in profile settings.
Override	Specifies overridden loading screen, defined in SceneCollection.

3.5.1.5 SceneImportOption

enum [SceneImportOption](#)

Specifies how to scenes are imported.

Enumerator

Manual	User will manually import scenes.
SceneCreated	Scenes will be automatically imported when created, otherwise manual.

3.5.1.6 SceneState

enum [SceneState](#)

Specifies that state of a scene.

Enumerator

Unknown	The state of the scene is unknown. (An issue probably occurred while checking state)
NotOpen	The scene is not open.
Queued	The scene is in queue to be opened.
Opening	The scene is currently being opened. Mutually exclusive to Preloading.
Preloading	The scene is currently being preloaded. Mutually exclusive to Opening.
Preloaded	The scene is currently preloaded.
Open	The scene is open.

3.6 AdvancedSceneManager.Models.Helpers Namespace Reference

Classes

- class [AssetsProxy](#)
Provides access to the scenes, collections and profiles managed by ASM.
- class [DefaultScenes](#)
Provides access to the default ASM scenes.
- class [SettingsProxy](#)
Provides access to ASM settings.

3.7 AdvancedSceneManager.Models.Internal Namespace Reference

Classes

- class [Assets](#)
Manages all ASM assets.

3.8 AdvancedSceneManager.Models.Utility Namespace Reference

Classes

- class [BuildOption](#)
Represents an enabled state depending on build context (editor, dev build, non-dev build).
- class [ProfileDependent](#)
Specifies a T that changes depending on active Profile.
- class [ProfileDependentCollection](#)
Represents a SceneCollection that changes depending on active Profile.
- class [ProfileDependentScene](#)
Represents a Scene that changes depending on active Profile.
- class [SceneCollectionTemplate](#)
Represents a template for a SceneCollection.

3.9 AdvancedSceneManager.Setup Namespace Reference

Classes

- class [ASMInfo](#)
Gets version info about ASM.

3.10 AdvancedSceneManager.Utility Namespace Reference

Classes

- class [ASMFilePathAttribute](#)
A FilePathAttribute that supports build.
- class [ASMScriptableSingleton](#)
A ScriptableSingleton<T> that supports build.
- class [AssetSearchUtility](#)
Provides utility functions for searching ASM assets.
- class [Async](#)
Represents a async operation that returns a value.
- class [CanvasGroupExtensions](#)
Provides extension methods for CanvasGroup.
- class [CanvasSortOrderUtility](#)
An utility class to manage sort order on canvases.
- class [DictionaryUtility](#)
Contains utility functions for working with dictionaries.
- class [FallbackSceneUtility](#)
An utility class that manages the default scene, called '[AdvancedSceneManager](#)'.
- class [GuidReference](#)
Represents a persistent reference to the GameObject that this is attached to, see also [GuidReferenceUtility](#).
- class [GuidReferenceUtility](#)
An utility for referencing objects globally.
- interface [IFadeLoadingScreen](#)

- Used to pass arguments from LoadingScreenUtility.FadeIn>LoadingScreen, float, Color?)*

 - class [InitializeInEditorAttribute](#)
Initializes a class in editor on recompile.
 - class [InitializeInEditorMethodAttribute](#)
Initializes a class in editor on recompile.
 - interface [IQueueable](#)
Represents a queueable item.
 - class [LerpUtility](#)
Provides some convinience functions for lerping.
 - class [LoadingScreenUtility](#)
Manager for loading screens.
 - class [QueueUtility](#)
A utility that provides queuing.
 - class [SceneDataUtility](#)
A utility for storing scene related data. Data can only be saved to disk in editor.
 - class [SceneUtility](#)
An utility class to perform actions on scenes.
 - class [ScriptableObjectUtility](#)
Contains utility methods for ScriptableObject.
 - class [SerializableDictionary](#)
A serializable dictionary.
 - class [SerializableStringBoolDict](#)
A serializable dictionary of string and bool.
 - class [SpamCheck](#)
Provides an easy way to check for spamming.

3.11 AdvancedSceneManager.Utility.CrossSceneReferences Namespace Reference

Classes

- class [CrossSceneReference](#)
A reference to a variable that references another object in some other scene.
- class [CrossSceneReferenceUtility](#)
An utility for saving and restoring cross-scene references.
- class [ObjectReference](#)
A reference to an object in a scene.
- struct [ResolvedCrossReference](#)
Represents a resolved reference.
- struct [ResolvedReference](#)
Represents a resolved ObjectReference.
- class [SceneReferenceCollection](#)
A collection of CrossSceneReference for a scene. [More...](#)

Enumerations

- enum [ResolveStatus](#)
Specifies the result of a resolve.
- enum [SceneStatus](#) { [Default](#) , [Restored](#) , [Cleared](#) }
Specifies the state of a scene.

3.11.1 Class Documentation

3.11.1.1 class `AdvancedSceneManager::Utility::CrossSceneReferences::SceneReferenceCollection`

A collection of `CrossSceneReference` for a scene.

3.11.2 Enumeration Type Documentation

3.11.2.1 `SceneStatus`

enum `SceneStatus`

Specifies the state of a scene.

Enumerator

Default	Cross-scene reference utility has not done anything to this scene.
Restored	Cross-scene reference utility has restored references in this scene.
Cleared	Cross-scene reference utility has cleared references in this scene.

3.12 Lazy Namespace Reference

3.13 Lazy.Utility Namespace Reference

Classes

- class `CoroutineUtility`
An utility class that helps with running coroutines detached from `MonoBehaviour`.
- class `GlobalCoroutine`
Represents a `IEnumerator` coroutine started using `CoroutineUtility`.
- class `MainThreadUtility`

Chapter 4

Class Documentation

4.1 ActionUtility

Contains utility functions for Action.

Static Public Member Functions

- static void **LogInvoke** (this Action action)
Tries to invoke the action, then logs error to the console if an error occurred.
- static void **TryInvoke** (this Action action)
Tries to invoke the action, eats the exception.
- static bool **TryInvoke** (this Action action, [NotNullWhen(false)] out Exception exception)
Tries to invoke the action.

4.1.1 Detailed Description

Contains utility functions for Action.

4.1.2 Member Function Documentation

4.1.2.1 TryInvoke()

```
static bool TryInvoke (  
    this Action action,  
    [NotNullWhen(false)] out Exception exception ) [static]
```

Tries to invoke the action.

Parameters

<i>action</i>	The action to invoke.
<i>exception</i>	The exception that occurred when invoking action. null if true was returned.

Returns

`true` if invoke succeeded with no exception.

4.2 App

Manages startup and quit.

Classes

- class [Props](#)

An object that persists start properties across domain reload, which is needed when configurable enter play mode is set to reload domain on enter play mode.

Public Member Functions

- void **Restart** ([Props](#) props=null)
- IEnumerator **RestartAsync** ([Props](#) props=null)
- void **Start** ([Props](#) props=null)
- IEnumerator **StartAsync** ([Props](#) props=null)
- void **RegisterQuitCallback** (IEnumerator coroutine)
Register a callback to be called before quit.
- void **UnregisterQuitCallback** (IEnumerator coroutine)
Unregister a callback that was to be called before quit.
- void [CancelQuit](#) ()
Cancels a quit in progress.
- void [Quit](#) (bool fade=true, Color? fadeColor=null, float fadeDuration=1)
Quits the game, and calls quitCallbacks, optionally with a fade animation.

Properties

- bool [isBuildMode](#) [get]
Gets whatever we're currently in build mode.
- bool **isStartupFinished** [get]
Gets if startup process is finished.
- bool **isQuitting** [get]
Gets whatever ASM is currently in the process of quitting.

Events

- Action **beforeRestart**
Occurs before restart process has begun, but has been initiated.
- Action **afterRestart**
Occurs after restart has been completed.

4.2.1 Detailed Description

Manages startup and quit.

Usage: SceneManager.app.

4.2.2 Member Function Documentation

4.2.2.1 CancelQuit()

```
void CancelQuit ( )
```

Cancels a quit in progress.

Only usable during a RegisterQuitCallback(IEnumerator) or while isQuitting is true.

4.2.2.2 Quit()

```
void Quit (
    bool fade = true,
    Color? fadeColor = null,
    float fadeDuration = 1 )
```

Quits the game, and calls quitCallbacks, optionally with a fade animation.

Parameters

<i>fade</i>	Specifies whatever screen should fade out.
<i>fadeColor</i>	Defaults to ProjectSettings.buildUnitySplashScreenColor.
<i>fadeDuration</i>	Specifies the duration of the fade out.

4.2.3 Property Documentation

4.2.3.1 isBuildMode

```
bool isBuildMode [get]
```

Gets whatever we're currently in build mode.

This is `true` when in build or when play button in scene manager window is pressed.

4.3 ASMFilePathAttribute

A FilePathAttribute that supports build.

Inherits Attribute.

Properties

- string **path** [get]
The path to the associated ScriptableSingleton<T>.

4.3.1 Detailed Description

A FilePathAttribute that supports build.

4.4 ASMInfo

Gets version info about ASM.

Static Public Attributes

- static string **version**
Gets the current version info.

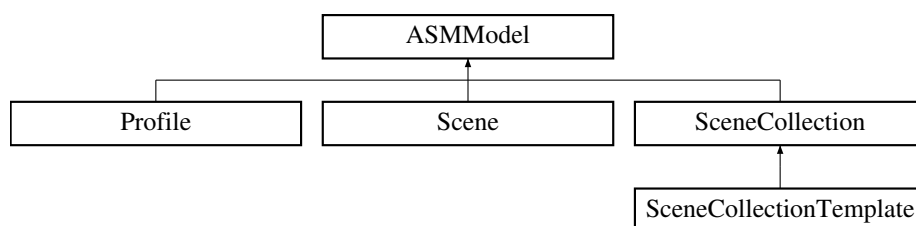
4.4.1 Detailed Description

Gets version info about ASM.

4.5 ASMModel

A base class for Profile, SceneCollection and Scene.

Inheritance diagram for ASMModel:



Public Member Functions

- virtual void **Save** ()
Saves the scriptable object after modifying.
- void **MarkAsDirty** ()
Mark scriptable object as dirty after modifying.
- virtual bool **IsMatch** (string q)
Gets if q matches name.
- override string **ToString** ()
Gets a text summarization of this model.
- virtual string **ToString** (int indent)

Static Protected Member Functions

- static T **CreateInternal**< T > (string [name](#))
Creates a profile. Throws if name is invalid.

Properties

- string **id** [get]
Gets the id of this ASMModel.
- new string **name** [get, protected set]

4.5.1 Detailed Description

A base class for Profile, SceneCollection and Scene.

4.5.2 Member Function Documentation

4.5.2.1 MarkAsDirty()

```
void MarkAsDirty ( )
```

Mark scriptable object as dirty after modifying.

Only available in editor.

4.5.2.2 Save()

```
virtual void Save ( ) [virtual]
```

Saves the scriptable object after modifying.

Only available in editor.

4.5.2.3 ToString()

```
virtual string ToString (
    int indent ) [virtual]
```

Parameters

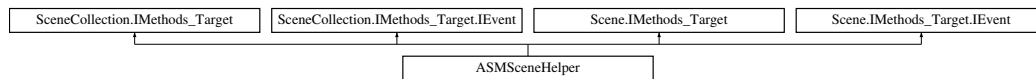
<i>indent</i>	The indentation level, used for nested calls.
---------------	---

Reimplemented in [SceneCollection](#), [Profile](#), and [Scene](#).

4.6 ASMSceneHelper

Represents scene helper. Contains functions for opening / closing collections and scenes from UnityEngine.Events.UnityEvent.

Inheritance diagram for ASMSceneHelper:



Public Member Functions

- **SceneOperation Open** ([SceneCollection](#) collection, bool openAll=false)
- **SceneOperation OpenAdditive** ([SceneCollection](#) collection, bool openAll=false)
- **SceneOperation ToggleOpen** ([SceneCollection](#) collection, bool? openState=null, bool openAll=false)
- **SceneOperation Close** ([SceneCollection](#) collection)
- void **_Open** ([SceneCollection](#) collection)
- void **_OpenAdditive** ([SceneCollection](#) collection)
- void **_ToggleOpen** ([SceneCollection](#) collection)
- void **_Close** ([SceneCollection](#) collection)
- **SceneOperation Open** ([Scene](#) scene)
 - Opens the specified scene.*
- **SceneOperation ToggleOpenState** ([Scene](#) scene)
 - Toggles the open state of this scene.*
- **SceneOperation ToggleOpen** ([Scene](#) scene, bool? openState=null)
 - Toggles the open state of the specified scene, or ensures the state specified.*
- **SceneOperation Close** ([Scene](#) scene)
 - Closes the specified scene.*
- **SceneOperation Preload** ([Scene](#) scene, Action onPreloaded=null)
 - Preloads the specified scene, to be displayed at a later time. See also: FinishPreload(Scene), DiscardPreload(← Scene).*
- **SceneOperation FinishPreload** ([Scene](#) scene)
 - Finishes preloading the specified scene, displaying it.*
- **SceneOperation DiscardPreload** ([Scene](#) scene)
 - Discards the specified scene, if preloaded.*
- **SceneOperation OpenWithLoadingScreen** ([Scene](#) scene, [Scene](#) loadingScene)
 - Opens the specified scene while a loading screen is open.*
- void **SetActive** ([Scene](#) scene)
 - Sets the specified scene as active in heirarchy.*
- void **_Open** ([Scene](#) scene)
- void **_ToggleOpen** ([Scene](#) scene)
- void **_Close** ([Scene](#) scene)
- void **_Preload** ([Scene](#) scene)
- void **_FinishPreload** ([Scene](#) scene)
- void **_DiscardPreload** ([Scene](#) scene)
- void **_SetActive** ([Scene](#) scene)
- void **OpenWhereNameStartsWith** (string name)
 - Open all scenes that starts with the specified name.*
- void **Quit** ()
- void **Restart** ()
- void **RestartCollection** ()

Properties

- new string **name** [get]
- static [ASMSceneHelper](#) **instance** [get]
Gets a reference to scene helper.

4.6.1 Detailed Description

Represents scene helper. Contains functions for opening / closing collections and scenes from UnityEngine.Events.UnityEvent.

4.6.2 Member Function Documentation

4.6.2.1 Close()

```
SceneOperation Close (  
    Scene scene )
```

Closes the specified scene.

Already closed scenes not affected.

Implements [Scene.IMethods_Target](#).

4.6.2.2 FinishPreload()

```
SceneOperation FinishPreload (  
    Scene scene )
```

Finishes preloading the specified scene, displaying it.

Scene must be preloaded beforehand.

Implements [Scene.IMethods_Target](#).

4.6.2.3 Open()

```
SceneOperation Open (  
    Scene scene )
```

Opens the specified scene.

Already open scenes not affected.

Implements [Scene.IMethods_Target](#).

4.6.2.4 Preload()

```
SceneOperation Preload (
    Scene scene,
    Action onPreloaded = null )
```

Preloads the specified scene, to be displayed at a later time. See also: FinishPreload(Scene), DiscardPreload(↵ Scene).

Scene must be closed beforehand.

Implements [Scene.IMethods_Target](#).

4.7 ASMScriptableSingleton< T >

A ScriptableSingleton<T> that supports build.

Inherits ScriptableObject.

Public Member Functions

- void [Save](#) ()
Saves the singleton to disk.

Properties

- virtual bool **editorOnly** [get]
Specifies that build support will not be applied to this ScriptableSingleton<T>.

4.7.1 Detailed Description

A ScriptableSingleton<T> that supports build.

Type Constraints

T : [ASMScriptableSingleton](#)<T>

4.7.2 Member Function Documentation

4.7.2.1 Save()

```
void Save ( )
```

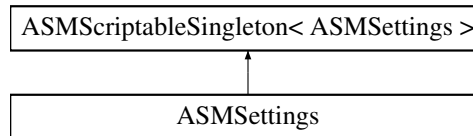
Saves the singleton to disk.

Can be called outside of editor, but has no effect.

4.8 ASMSettings

Contains the core of ASM assets. Contains projectSettings and assets

Inheritance diagram for ASMSettings:



Static Public Member Functions

- static void **OnInitialized** (Action action)
Runs the callback when ASMSettings has initialized.

Properties

- Profile **defaultProfile** [get, set]
The profile to use when none is set.
- Profile **forceProfile** [get, set]
The profile to force everyone in this project to use.
- Profile **buildProfile** [get]
The profile to use during build.
- bool **checkForDuplicateSceneOperations** [get, set]
By default, ASM checks for duplicate scene operations, since this is usually caused by mistake, but this will disable that.
- bool **preventSpammingEventMethods** [get, set]
By default, ASM will prevent spam calling event methods (i.e. calling Scene.Open() from a button press), but this will disable that.
- float **spamCheckCooldown** [get, set]
Sets the default cooldown for SpamCheck.
- bool **enableCrossSceneReferences** [get, set]
Gets or sets whatever cross-scene references should be enabled.
- SceneImportOption **sceneImportOption** [get, set]
Gets or sets when to automatically import scenes.
- bool **allowExcludingCollectionsFromBuild** [get, set]
Specifies whatever collections can be excluded from build.
- bool **reverseUnloadOrderOnCollectionClose** [get, set]
Specifies whatever collections should unload scenes in the reverse order.
- string **assetPath** [get, set]
Specifies the path where profiles and imported scenes should be generated to.
- CustomData **customData** [get]
Specifies custom data.
- Color **buildUnitySplashScreenColor** [get]
This is the color of the unity splash screen, used to make the transition from unity splash screen to ASM smooth, this is set before building. Color.black is used when the unity splash screen is disabled.
- bool **allowSceneLocking** [get, set]
Specifies whatever asm will allow locking scenes.
- bool **allowCollectionLocking** [get, set]
Specifies whatever asm will allow locking collections.

Properties inherited from [ASMScriptableSingleton](#)< [ASMSettings](#) >

- virtual bool **editorOnly** [get]

Specifies that build support will not be applied to this ScriptableSingleton<T>.

Additional Inherited Members

Public Member Functions inherited from [ASMScriptableSingleton](#)< [ASMSettings](#) >

- void [Save](#) ()

Saves the singleton to disk.

4.8.1 Detailed Description

Contains the core of ASM assets. Contains projectSettings and assets

Only available in editor.

4.8.2 Property Documentation

4.8.2.1 allowExcludingCollectionsFromBuild

bool allowExcludingCollectionsFromBuild [get], [set]

Specifies whatever collections can be excluded from build.

When `true`, a toggle will be shown in scene manager window.

4.8.2.2 enableCrossSceneReferences

bool enableCrossSceneReferences [get], [set]

Gets or sets whatever cross-scene references should be enabled.

Experimental.

4.9 Assets

Manages all ASM assets.

Properties

- static IEnumerable< [Profile](#) > **profiles** [get]
Enumerates all imported profiles.
- static IEnumerable< [SceneCollection](#) > **collections** [get]
Enumerates all imported collections.
- static IEnumerable< [SceneCollectionTemplate](#) > **collectionTemplates** [get]
Enumerates all imported collection templates.
- static IEnumerable< [Scene](#) > **scenes** [get]
Enumerates all imported scenes.
- static [ASMSceneHelper](#) **sceneHelper** [get]
Gets scene helper singleton.
- static IEnumerable< Object > **allAssets** [get]
Enumerates all imported assets.
- static string [assetPath](#) [get]
Gets the import path.
- static string **fallbackScenePath** [get]
Gets the path to the fallback scene.

4.9.1 Detailed Description

Manages all ASM assets.

4.9.2 Property Documentation

4.9.2.1 assetPath

```
string assetPath [static], [get]
```

Gets the import path.

Can be changed using ProjectSettings.assetPath

4.10 AssetSearchUtility

Provides utility functions for searching ASM assets.

Static Public Member Functions

- static T **Find**< T > (string q)
Finds the T with the specified name.
- static bool **TryFind**< T > (string q, out T result)
Finds the T with the specified name.
- static T **Find**< T > (this T[] list, string q)
- static bool **TryFind**< T > (this T[] list, string q, out T result)
- static T **Find**< T > (this IEnumerable< T > list, string q)
- static bool **TryFind**< T > (this IEnumerable< T > list, string q, out T result)

4.10.1 Detailed Description

Provides utility functions for searching ASM assets.

4.11 AssetsProxy

Provides access to the scenes, collections and profiles managed by ASM.

Public Member Functions

- `IEnumerable< T > Enumerate< T > ()`
Enumerates T .

Properties

- `IEnumerable< Profile > profiles` [get]
Enumerates all profiles in the project.
- `IEnumerable< Scene > scenes` [get]
Enumerates all scenes.
- `IEnumerable< SceneCollection > collections` [get]
Enumerates all collections.
- `IEnumerable< SceneCollectionTemplate > templates` [get]
Enumerates all templates.
- `DefaultScenes defaults = new()` [get]
Provides access to the default ASM scenes.

4.11.1 Detailed Description

Provides access to the scenes, collections and profiles managed by ASM.

4.12 Async< T >

Represents a async operation that returns a value.

Inherits CustomYieldInstruction.

Public Member Functions

- `void OnComplete (Action< T > callback)`
Calls the callback when the async operation is complete.

Properties

- static **Async**< T > **complete** = new(null) [get]
Gets a Async<T> that is already completed.
- **T value** [get, set]
Gets the value that was produced by the async operation.

4.12.1 Detailed Description

Represents a async operation that returns a value.

4.13 BuildOption

Represents an enabled state depending on build context (editor, dev build, non-dev build).

Inherits INotifyPropertyChanged.

Public Member Functions

- bool **GetIsEnabledInCurrentContext** ()
Get whatever we should be enabled in the current context.

Properties

- bool **enableInEditor** [get, set]
Gets whatever we should be enabled in editor.
- bool **enableInDevBuild** [get, set]
Gets whatever we should be enabled in dev build.
- bool **enableInNonDevBuild** [get, set]
Gets whatever we should be enabled in non-dev build.

4.13.1 Detailed Description

Represents an enabled state depending on build context (editor, dev build, non-dev build).

4.14 Callback

Represents a callback that can be run on Phase change, or right before loading screen hide (or when it would, if it was enabled).

Public Types

- enum **When** { **Before** , **After** }
Specifies when to run the callback on a given Phase.

Public Member Functions

- **Callback Do** (Action [action](#))
Performs the specified callback.
- **Callback Do** (Func< IEnumerator > [enumerator](#))
Performs the specified callback.
- **Callback Do** (GlobalCoroutine [coroutine](#))
Performs the specified callback.
- **Callback Do** (float delay)
Performs the specified callback.

Static Public Member Functions

- static implicit **operator Callback** (Action [action](#))
Converts to Callback.
- static implicit **operator Callback** (Func< IEnumerator > [enumerator](#))
Converts to Callback.
- static implicit **operator Callback** ([GlobalCoroutine](#) [coroutine](#))
Converts to Callback.
- static **Callback AfterLoadingScreenOpen** ()
Runs a callback after loading screen would have opened, if one was specified.
- static **Callback BeforeLoadingScreenClose** ()
Runs a callback before loading screen would close, if one was opened.
- static **Callback Before** ([Phase](#) [phase](#), Scene on)
Runs a callback before the specified phase, when processing the specified scene.
- static **Callback After** ([Phase](#) [phase](#), Scene on)
Runs a callback after the specified phase.
- static **Callback Before** ([Phase](#) [phase](#))
Runs a callback before the specified phase, when processing the specified scene.
- static **Callback After** ([Phase](#) [phase](#))
Runs a callback after the specified phase.

Properties

- [Phase?](#) **phase** [get]
Specifies on what phase this callback should run at.
- [When](#) **when** [get]
Specifies when to run the callback on a given Phase.
- Action **action** [get]
The Action to run.
- Func< IEnumerator > **enumerator** [get]
The IEnumerator coroutine to run.
- [GlobalCoroutine](#) **coroutine** [get]
The GlobalCoroutine to run.
- Scene [scene](#) [get]
Specifies the scene that this callback should run on.

4.14.1 Detailed Description

Represents a callback that can be run on Phase change, or right before loading screen hide (or when it would, if it was enabled).

4.14.2 Member Enumeration Documentation

4.14.2.1 When

enum `When`

Specifies when to run the callback on a given Phase.

Enumerator

Before	Run callback before any scene actions have started during a given Phase.
After	Run callback after all scene actions have run during a given Phase.

4.14.3 Member Function Documentation

4.14.3.1 Before() [1/2]

```
static Callback Before (
    Phase phase ) [static]
```

Runs a callback before the specified phase, when processing the specified scene.

Phase will still have changed to the next though, but scene actions won't run until after callback.

4.14.3.2 Before() [2/2]

```
static Callback Before (
    Phase phase,
    Scene on ) [static]
```

Runs a callback before the specified phase, when processing the specified scene.

Phase will still have changed to the next though, but scene actions won't run until after callback.

4.14.4 Property Documentation

4.14.4.1 scene

Scene scene [get]

Specifies the scene that this callback should run on.

Specify `null` to run on all scenes.

4.15 CallbackUtility

An utility class that invokes callbacks (defined in interfaces based on ISceneCallbacks), and tracks performance and provides tools for optimizing and diagnosing bottlenecks in these callbacks.

Classes

- class [FluentInvokeAPI](#)

An helper class to facilitate a fluent api.

4.15.1 Detailed Description

An utility class that invokes callbacks (defined in interfaces based on ISceneCallbacks), and tracks performance and provides tools for optimizing and diagnosing bottlenecks in these callbacks.

4.16 CanvasGroupExtensions

Provides extension methods for CanvasGroup.

Static Public Member Functions

- static IEnumerator **Fade** (this CanvasGroup group, float to, float duration, bool setBlocksRaycasts=true)

Animates the alpha of a CanvasGroup.

4.16.1 Detailed Description

Provides extension methods for CanvasGroup.

4.17 CanvasSortOrderUtility

An utility class to manage sort order on canvases.

Static Public Member Functions

- static void **Remove** (Canvas canvas)
Removes this canvas from the managed list.
- static void **PutOnTop** (this Canvas canvas)
Sets the sort order on this canvas to be on top of all other canvases managed by CanvasSortOrderUtility.
- static void **PutAtBottom** (this Canvas canvas)
Sets the sort order on this canvas to be on bottom of all other canvases managed by CanvasSortOrderUtility.
- static void [MakeSure](#) (this Canvas canvas, Canvas above=null, Canvas below=null)
Adds a constraint on the sort order of this Canvas based on one or two other canvases.

4.17.1 Detailed Description

An utility class to manage sort order on canvases.

4.17.2 Member Function Documentation

4.17.2.1 MakeSure()

```
static void MakeSure (
    this Canvas canvas,
    Canvas above = null,
    Canvas below = null ) [static]
```

Adds a constraint on the sort order of this Canvas based on one or two other canvases.

Parameters

<i>canvas</i>	The canvas to constrain.
<i>above</i>	Makes sure that this canvas is always above this one.
<i>below</i>	Makes sure that this canvas is always below this one.

See parameter comments for more info.

4.18 CoroutineUtility

An utility class that helps with running coroutines detached from MonoBehaviour.

Classes

- class [Events](#)
Provides events for coroutine events.

Static Public Member Functions

- static void **Run** (Action action, TimeSpan after, [CallerFilePath] string callerFile="", [CallerLineNumber] int callerLine=0, [CallerMemberName] string callerName="")
Runs the action after the specified time.
- static void **Run** (Action action, float? after=null, bool nextFrame=false, Func< bool > when=null, [CallerFilePath] string callerFile="", [CallerLineNumber] int callerLine=0, [CallerMemberName] string callerName="")
Runs the action after the specified time.
- static [GlobalCoroutine](#) **StartCoroutineGlobal** (this MonoBehaviour _, IEnumerator coroutine, Action onComplete=null, string description="", [CallerFilePath] string callerFile="", [CallerLineNumber] int callerLine=0)
Runs the coroutine using CoroutineUtility, which means it won't be tied to a MonoBehaviour and will persist through scene close.
- static [GlobalCoroutine](#) **StartCoroutine** (this IEnumerator coroutine, Action onComplete=null, string description="", [CallerFilePath] string callerFile="", [CallerLineNumber] int callerLine=0)
- static [GlobalCoroutine](#) **Chain** (params Func< IEnumerator >[] coroutines)

- Runs the coroutines in sequence, wrapped in a single GlobalCoroutine.*
- static void **StopCoroutine** ([GlobalCoroutine](#) coroutine)
 - Stops the coroutine.*
- static void **StopAllCoroutines** ()
 - Stops all global coroutines.*
- static IEnumerator **WaitAll** (params IEnumerator[] coroutines)
 - Wait for all coroutines to complete.*
- static IEnumerator **WaitAll** (this IEnumerable< IEnumerator > coroutines, Func< bool > isCancelled=null, string debugText=null)
 - Wait for all coroutines to complete.*
- static IEnumerator **WaitAll** (params [GlobalCoroutine](#)[] coroutines)
 - Wait for all coroutines to complete.*
- static IEnumerator **WaitAll** (this [GlobalCoroutine](#)[] coroutines, Func< bool > isCancelled=null)
 - Wait for all coroutines to complete.*

4.18.1 Detailed Description

An utility class that helps with running coroutines detached from MonoBehaviour.

4.18.2 Member Function Documentation

4.18.2.1 StartCoroutineGlobal()

```
static GlobalCoroutine StartCoroutineGlobal (
    this MonoBehaviour __,
    IEnumerator coroutine,
    Action onComplete = null,
    string description = "",
    [CallerFilePath] string callerFile = "",
    [CallerLineNumber] int callerLine = 0 ) [static]
```

Runs the coroutine using CoroutineUtility, which means it won't be tied to a MonoBehaviour and will persist through scene close.

You may yield return this method.

4.19 CrossSceneReference

A reference to a variable that references another object in some other scene.

4.19.1 Detailed Description

A reference to a variable that references another object in some other scene.

4.20 CrossSceneReferenceUtility

An utility for saving and restoring cross-scene references.

Static Public Member Functions

- static void **Initialize** (bool? enabled=null)
Initializes cross-scene references, if it is enabled in settings.
- static IEnumerable< [ResolvedCrossReference](#) > **GetResolvedReferences** ()
Gets all references for all scenes.
- static IEnumerable< [ResolvedCrossReference](#) > **GetResolvedReferences** (scene scene)
Gets all references for this scene.
- static IEnumerable< [ResolvedCrossReference](#) > **GetResolvedReferences** (GameObject obj)
Gets all references for this game object.
- static IEnumerable< [ResolvedCrossReference](#) > **GetResolvedReferencesValue** (GameObject obj)
Gets all references for this game object.
- static bool **CanSceneBeSaved** (scene scene)
Gets if the cross-scene references can be saved.
- static bool **GetResolved** ([CrossSceneReference](#) reference, out [ResolvedCrossReference?](#) resolved)
Get the resolve result for a cross scene reference, if it has been resolved.
- static [ResolvedCrossReference](#) **GetResolved** ([CrossSceneReference](#) reference)
Get the resolve result for a cross scene reference, if it has been resolved.
- static [SceneReferenceCollection](#) **Load** ([Scene](#) scene)
Loads cross-scene references for a scene.
- static [SceneReferenceCollection](#)[] **Enumerate** ()
Loads cross-scene references for all scenes.
- static void **ResolveAllScenes** ()
Resolves all scenes.
- static IEnumerable< [ResolvedCrossReference](#) > **ResolveScene** (scene scene)
Resolves cross-scene references in the scene.
- static void **ResetAllScenes** ()
Resets all cross-scene references in all scenes.
- static void **ResetScene** (scene scene)
Resets all cross-scene references in scene.
- static IEnumerable< [CrossSceneReference](#) > **FindCrossSceneReferences** (params scene[] scenes)
Finds all cross-scene references in the scenes.

4.20.1 Detailed Description

An utility for saving and restoring cross-scene references.

4.20.2 Member Function Documentation

4.20.2.1 CanSceneBeSaved()

```
static bool CanSceneBeSaved (
    scene scene ) [static]
```

Gets if the cross-scene references can be saved.

This would be if status: SceneStatus.Restored and no resolve errors.

4.20.2.2 ResolveAllScenes()

```
static void ResolveAllScenes ( ) [static]
```

Resolves all scenes.

This runs within a single frame.

4.21 DefaultScenes

Provides access to the default ASM scenes.

Public Member Functions

- [Scene GetScene](#) (string name)
Gets a default scene.
- `IEnumerable< Scene > Enumerate` (bool listNulls=false)
Enumerates all default scenes.

Properties

- [Scene splashScreen](#) [get]
Gets the default splash screen.
- [Scene fadeScreen](#) [get]
Gets the default fade loading screen.
- [Scene progressBarScreen](#) [get]
Gets the default progress bar loading screen.
- [Scene iconBounceScreen](#) [get]
Gets the default icon bounce loading screen.
- [Scene pressAnyButtonScreen](#) [get]
Gets the default press any button loading screen.
- [Scene quoteScreen](#) [get]
Gets the default quote loading screen.
- [Scene videoScreen](#) [get]
Gets the default video loading screen.
- [Scene pauseScreen](#) [get]
Gets the default pause screen.
- [Scene inGameToolbar](#) [get]
Gets the default in-game-toolbar scene.

4.21.1 Detailed Description

Provides access to the default ASM scenes.

4.21.2 Member Function Documentation

4.21.2.1 Enumerate()

```
IEnumerable< Scene > Enumerate (  
    bool listNulls = false )
```

Enumerates all default scenes.

Parameters

<i>listNulls</i>	Specifies whatever <code>null</code> will be returned for scenes that could not be found.
------------------	---

4.21.2.2 GetScene()

```
Scene GetScene (
    string name )
```

Gets a default scene.

May be `null` if scene has been removed, or is not imported.

4.21.3 Property Documentation

4.21.3.1 fadeScreen

```
Scene fadeScreen [get]
```

Gets the default fade loading screen.

May be `null` if scene has been removed, or is not imported.

4.21.3.2 iconBounceScreen

```
Scene iconBounceScreen [get]
```

Gets the default icon bounce loading screen.

May be `null` if scene has been removed, or is not imported.

4.21.3.3 inGameToolbar

```
Scene inGameToolbar [get]
```

Gets the default in-game-toolbar scene.

May be `null` if scene has been removed, or is not imported.

4.21.3.4 pauseScreen

```
Scene pauseScreen [get]
```

Gets the default pause screen.

May be `null` if scene has been removed, or is not imported.

4.21.3.5 pressAnyButtonScreen

`Scene pressAnyButtonScreen [get]`

Gets the default press any button loading screen.

May be `null` if scene has been removed, or is not imported.

4.21.3.6 progressBarScreen

`Scene progressBarScreen [get]`

Gets the default progress bar loading screen.

May be `null` if scene has been removed, or is not imported.

4.21.3.7 quoteScreen

`Scene quoteScreen [get]`

Gets the default quote loading screen.

May be `null` if scene has been removed, or is not imported.

4.21.3.8 splashScreen

`Scene splashScreen [get]`

Gets the default splash screen.

May be `null` if scene has been removed, or is not imported.

4.21.3.9 videoScreen

`Scene videoScreen [get]`

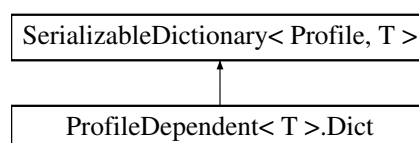
Gets the default video loading screen.

May be `null` if scene has been removed, or is not imported.

4.22 ProfileDependent< T >.Dict

A dictionary of type Profile, *T*.

Inheritance diagram for ProfileDependent< T >.Dict:



4.22.1 Detailed Description

A dictionary of type Profile, T.

4.23 DictionaryUtility

Contains utility functions for working with dictionaries.

Static Public Member Functions

- static void **Add**< TKey, TValue > (this Dictionary< TKey, TValue > d, TKey key, TValue value)
Adds or sets the value of a key.
- static void **Add**< TKey, TList, TItem > (this Dictionary< TKey, TList > d, TKey key, TItem item)
Adds the value to the list with the specified key. Creates list automatically if null and adds key if necessary.
- static void **AddRange**< TKey, TList, TItem > (this Dictionary< TKey, TList > d, TKey key, IEnumerable< TItem > items)
Adds the values to the list with the specified key. Creates list automatically if null and adds key if necessary.
- static void **AddRange**< TKey, TList, TItem > (this Dictionary< TKey, TList > d, TKey key, params TItem[] items)
Adds the values to the list with the specified key. Creates list automatically if null and adds key if necessary.
- static void **Remove**< TKey, TList, TItem > (this Dictionary< TKey, TList > d, TKey key, TItem value)
Removes the value to the list with the specified key.
- static TValue **GetValue**< TKey, TValue > (this Dictionary< TKey, TValue > d, TKey key, TValue default←Value=default)
Gets the value of the specified key, returns default if it does not exist.

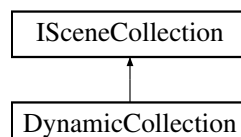
4.23.1 Detailed Description

Contains utility functions for working with dictionaries.

4.24 DynamicCollection

Represents a collection that can take a path and then gather all scenes within, guaranteeing that they are all added to build, including non-imported and blacklisted scenes.

Inheritance diagram for DynamicCollection:



Public Member Functions

- bool **Contains** (string path)
Gets if the specified SceneAsset path is tracked by this dynamic collection.

Properties

- string **id** [get]
Gets the id of this collection.
- [Profile](#) **profile** [get]
Finds the profile associated with this dynamic collection.
- string **path** [get, set]
Specifies the path that this dynamic collection will gather scenes from.
- string **title** [get, set]
Gets the title of this collection.
- string **description** [get, set]
Gets the description of this collection.
- IEnumerable< string > **scenePaths** [get]
Gets the scenes of this collection.
- [Scene](#) **this[int index]** [get]
Gets the scene at the specified index.
- int **count** [get]
Gets the scene count of this collection.

Properties inherited from [ISceneCollection](#)

4.24.1 Detailed Description

Represents a collection that can take a path and then gather all scenes within, guaranteeing that they are all added to build, including non-imported and blacklisted scenes.

Represents a dynamic scene collection.

4.25 CoroutineUtility.Events

Provides events for coroutine events.

Public Member Functions

- delegate void **CoroutineEvent** ([GlobalCoroutine](#) coroutine)

Parameters

coroutine	<i>The coroutine that this event was called for.</i>
-----------	--

- delegate object [CoroutineFrameStartEvent](#) ([GlobalCoroutine](#) coroutine, object data, int level, object parent↔ UserData, bool isPause)
- delegate void [CoroutineFrameEndEvent](#) ([GlobalCoroutine](#) coroutine, object userData)

Static Public Attributes

- static [CoroutineEvent](#) **onCreated**

Occurs when created. Note that *GlobalCoroutine* is pooled, the same object instance will be used multiple times, and this event is called when the pooled instance is 'constructed', meaning this event will be called multiple times for the same object instance.

- static [CoroutineEvent](#) **onDestroyed**

Occurs when a *GlobalCoroutine* is 'destroyed'. Note that *GlobalCoroutine* is pooled, the same object instance will be used multiple times, and this event is called when the pooled instance is 'destroyed', meaning this event will be called multiple times for the same object instance.

- static [CoroutineEvent](#) **onCoroutineStarted**

Occurs when a *GlobalCoroutine* is started.

- static [CoroutineEvent](#) **onCoroutineEnded**

Occurs when a *GlobalCoroutine* is ended.

- static [CoroutineFrameStartEvent](#) **onSubroutineStart**

Occurs before a subroutine in an executing *GlobalCoroutine* is started.

- static [CoroutineFrameEndEvent](#) **onSubroutineEnd**

Occurs when a subroutine in an executing *GlobalCoroutine* has ended.

Properties

- static bool **enableEvents** [get]

Enables or disables events. Setter not available, and getter always returns false, in build. Default is *false*.

4.25.1 Detailed Description

Provides events for coroutine events.

4.25.2 Member Function Documentation

4.25.2.1 CoroutineFrameEndEvent()

```
delegate void CoroutineFrameEndEvent (
    GlobalCoroutine coroutine,
    object userData )
```

Parameters

<i>coroutine</i>	The coroutine that this event was called for.
<i>userData</i>	The userdata that was passed to onSubroutineStart.

4.25.2.2 CoroutineFrameStartEvent()

```
delegate object CoroutineFrameStartEvent (
    GlobalCoroutine coroutine,
    object data,
    int level,
    object parentUserData,
    bool isPause )
```

Parameters

<i>coroutine</i>	The coroutine that this event was called for.
<i>data</i>	The object returned from IEnumerator.Current.
<i>level</i>	The level, or depth, of the current subroutine.
<i>parentUserData</i>	The userdata of the subroutine above this one, depth-wise.
<i>isPause</i>	GlobalCoroutine.Pause is reported as a subroutine, this is true when that is the case.

4.25.3 Member Data Documentation

4.25.3.1 onSubroutineStart

`CoroutineFrameStartEvent` onSubroutineStart [static]

Occurs before a subroutine in an executing GlobalCoroutine is started.

A user object can be returned, which is then passed to onSubroutineEnd.

4.26 FallbackSceneUtility

An utility class that manages the default scene, called '[AdvancedSceneManager](#)'.

Static Public Member Functions

- static bool **IsFallbackScene** (scene scene)
Gets whatever the specified scene is the default scene.

4.26.1 Detailed Description

An utility class that manages the default scene, called '[AdvancedSceneManager](#)'.

The default scene allows us to more easily close all scenes when we need to, since unity requires at least one scene to be open at any time.

4.27 CallbackUtility.FluentInvokeAPI< T >

An helper class to facilitate a fluent api.

Public Member Functions

- `FluentInvokeAPI< T > WithCallback` (Callback callback)
Specify a callback, this should point to the interface method which provides a `IEnumerator`.
- `FluentInvokeAPI< T > WithParam` (object param)
Specify a parameter to use when invoking the callback.
- `IEnumerator On` (`SceneCollection` collection, params `Scene[]` additionalScenes)
Specify the collection scenes to run this callback on and start execution.
- `IEnumerator OnAllOpenScenes` ()
Specify the collection scenes to run this callback on and start execution..
- `IEnumerator On` (params `Scene[]` scenes)
Specify the scenes to run this callback on and start execution.
- `IEnumerator On` (params `ScriptableObject[]` scriptableObjects)
Specify the scenes to run this callback on and start execution.

Properties

- bool `hasDefaultCallback` [get]
Gets whatever `T` has a default callback. All callbacks inheriting from `ISceneCallbacks` should have one.

4.27.1 Detailed Description

An helper class to facilitate a fluent api.

Usage: `Invoke<T>`

4.27.2 Member Function Documentation

4.27.2.1 WithCallback()

```
FluentInvokeAPI< T > WithCallback (
    Callback callback )
```

Specify a callback, this should point to the interface method which provides a `IEnumerator`.

This is not needed for callback interfaces inheriting from `ISceneCallbacks`.

4.28 GlobalCoroutine

Represents a `IEnumerator` coroutine started using `CoroutineUtility`.

Inherits `CustomYieldInstruction`.

Public Member Functions

- void **Pause** ()
Pauses the coroutine. Make sure to not use this from within a coroutine, unless you also make sure to unpause it from outside. No effect if already paused.
- void **Resume** ()
Resumes a paused coroutine. No effect if not paused.
- void **Stop** ()
Stops the coroutine.
- override string **ToString** ()
>

Public Attributes

- MethodBase **method**
Gets the caller info of this coroutine.

Properties

- Action **onComplete** [get]
The callback that is executed when coroutine is finished.
- bool **isPaused** [get]
Gets whatever this coroutine is paused.
- bool **isComplete** [get]
Gets whatever this coroutine is completed.
- bool **isRunning** [get]
Gets whatever this coroutine is currently running. This will still return true when paused.
- bool **wasCancelled** [get]
Gets whatever this coroutine was cancelled.
- string **description** [get, set]
Gets the user defined message that was associated with this coroutine.
- override bool **keepWaiting** [get]
CustomYieldInstruction.keepWaiting, this is how unity knows if this coroutine is done or not.

4.28.1 Detailed Description

Represents a IEnumerator coroutine started using CoroutineUtility.

4.29 GuidReference

Represents a persistent reference to the GameObject that this is attached to, see also GuidReferenceUtility .

Inherits MonoBehaviour.

4.29.1 Detailed Description

Represents a persistent reference to the GameObject that this is attached to, see also GuidReferenceUtility .

4.30 GuidReferenceUtility

An utility for referencing objects globally.

Static Public Member Functions

- static string **AddRuntime** (Object obj)
Adds a reference to the object, returns the id that will be used to find it again.
- static void **RemoveRuntime** (Object obj)
Removes the reference to this object.
- static void **RemoveRuntime** (string id)
Removes the reference to the object with this id.
- static bool **HasReference** (string id)
Gets if reference exists.
- static bool **TryFind**< T > (string id, out T obj)
Gets if reference exists.
- static Object **TryFind** (string id, out Object obj)
Tries to find the reference.
- static Object **Find** (string id)
Finds a reference if it exists.
- static T **Find**< T > (string id)
Finds a reference if it exists.
- static IEnumerator **Find** (string id, Action< Object > callback)
Finds a reference if it exists.
- static string **GetOrAddPersistent** (GameObject obj)
Adds a persistent reference to this GameObject.
- static string **GenerateID** ()
Generates an id.
- static GameObject **FindPersistent** (string guid)
Finds the persistent reference in the currently open scenes.
- static bool **TryFindPersistent** (string guid, out GameObject obj)
Finds the persistent reference in the currently open scenes.

4.30.1 Detailed Description

An utility for referencing objects globally.

4.30.2 Member Function Documentation

4.30.2.1 FindPersistent()

```
static GameObject FindPersistent (
    string guid ) [static]
```

Finds the persistent reference in the currently open scenes.

Parameters

<i>guid</i>	The guid of the GameObject to find.
-------------	-------------------------------------

4.30.2.2 GenerateID()

```
static string GenerateID ( ) [static]
```

Generates an id.

Uses <https://blog.codinghorror.com/equipping-our-ascii-armor>.

4.30.2.3 GetOrAddPersistent()

```
static string GetOrAddPersistent (
    GameObject obj ) [static]
```

Adds a persistent reference to this GameObject.

Can only add in editor, returns `null` otherwise.

4.30.2.4 TryFindPersistent()

```
static bool TryFindPersistent (
    string guid,
    out GameObject obj ) [static]
```

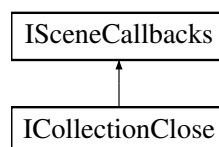
Finds the persistent reference in the currently open scenes.

Parameters

<i>guid</i>	The guid of the GameObject to find.
<i>obj</i>	The found GameObject.

4.31 ICollectionClose

Inheritance diagram for ICollectionClose:

**Public Member Functions**

- void **OnCollectionClose** ([SceneCollection](#) collection)

4.31.1 Detailed Description

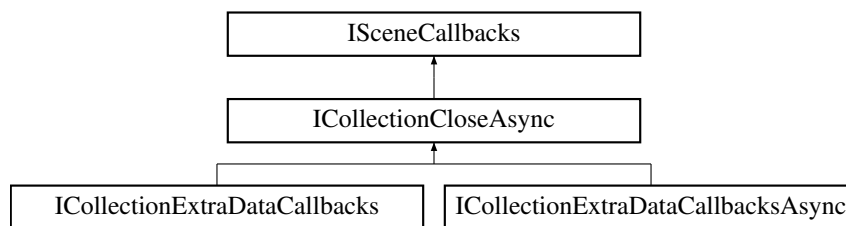
Callback for when a scene in a collection that a MonoBehaviour is contained within is closed.

Called after loading screen has opened, if one is defined, or else just before collection is closed.

See also: ICollectionCloseAsync.

4.32 ICollectionCloseAsync

Inheritance diagram for ICollectionCloseAsync:



Public Member Functions

- IEnumerator **OnCollectionClose** ([SceneCollection](#) collection)

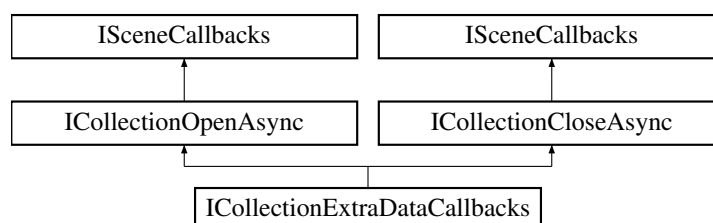
4.32.1 Detailed Description

Scene operation will wait for coroutine callback before continuing.

4.33 ICollectionExtraDataCallbacks

Callbacks for a ScriptableObject that has been set as extra data for a collection.

Inheritance diagram for ICollectionExtraDataCallbacks:



Additional Inherited Members

Public Member Functions inherited from [ICollectionOpenAsync](#)

- IEnumerator **OnCollectionOpen** ([SceneCollection](#) collection)

Public Member Functions inherited from [ICollectionCloseAsync](#)

- IEnumerator **OnCollectionClose** ([SceneCollection](#) collection)

4.33.1 Detailed Description

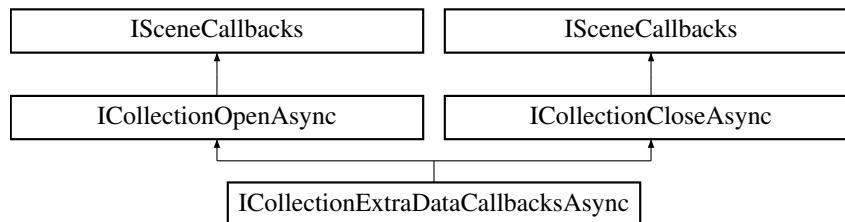
Callbacks for a ScriptableObject that has been set as extra data for a collection.

See also: [ICollectionExtraDataCallbacksAsync](#).

4.34 ICollectionExtraDataCallbacksAsync

Callbacks for a ScriptableObject that has been set as extra data for a collection.

Inheritance diagram for [ICollectionExtraDataCallbacksAsync](#):



Additional Inherited Members

Public Member Functions inherited from [ICollectionOpenAsync](#)

- IEnumerator **OnCollectionOpen** ([SceneCollection](#) collection)

Public Member Functions inherited from [ICollectionCloseAsync](#)

- IEnumerator **OnCollectionClose** ([SceneCollection](#) collection)

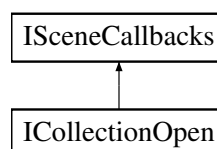
4.34.1 Detailed Description

Callbacks for a ScriptableObject that has been set as extra data for a collection.

Scene operation will wait for coroutine callback before continuing.

4.35 ICollectionOpen

Inheritance diagram for [ICollectionOpen](#):



Public Member Functions

- void **OnCollectionOpen** ([SceneCollection](#) collection)

4.35.1 Detailed Description

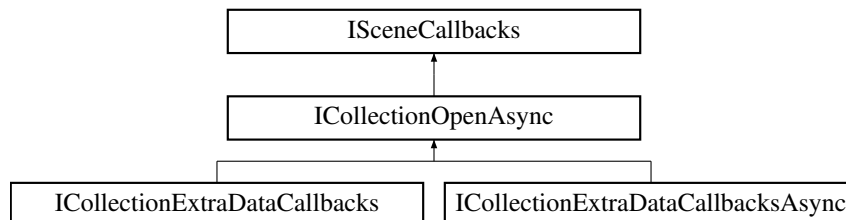
Callback for when a scene in a collection that a MonoBehaviour is contained within is opened.

Called before loading screen is hidden, if one is defined, or else just when collection has opened.

See also: ICollectionOpenAsync.

4.36 ICollectionOpenAsync

Inheritance diagram for ICollectionOpenAsync:

**Public Member Functions**

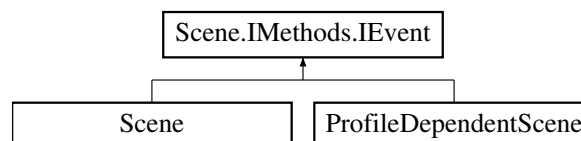
- IEnumerator **OnCollectionOpen** ([SceneCollection](#) collection)

4.36.1 Detailed Description

Scene operation will wait for coroutine callback before continuing.

4.37 Scene.IMethods.IEvent

Inheritance diagram for Scene.IMethods.IEvent:



Public Member Functions

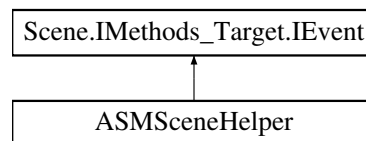
- void **_Open** ()
Event method. Its meant for UnityEngine.Events.UnityEvent.
- void **_ToggleOpenState** ()
- void **_ToggleOpen** (bool? openState=null)
- void **_Close** ()
- void **_Preload** ()
- void **_FinishPreload** ()
- void **_DiscardPreload** ()
- void **_OpenWithLoadingScreen** ([Scene](#) loadingScene)
- void **_SetActive** ()

4.37.1 Detailed Description

Specifies methods to be used in UnityEvent, using the scene itself.

4.38 Scene.IMethods_Target.IEvent

Inheritance diagram for Scene.IMethods_Target.IEvent:



Public Member Functions

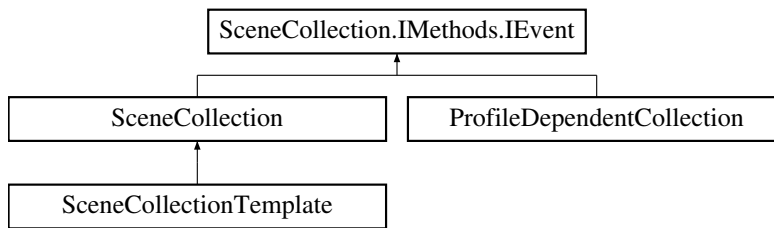
- void **_Open** ([Scene](#) scene)
- void **_ToggleOpen** ([Scene](#) scene)
- void **_Close** ([Scene](#) scene)
- void **_Preload** ([Scene](#) scene)
- void **_FinishPreload** ([Scene](#) scene)
- void **_DiscardPreload** ([Scene](#) scene)
- void **_SetActive** ([Scene](#) scene)

4.38.1 Detailed Description

Specifies methods to be used in UnityEvent, when not using scene itself.

4.39 SceneCollection.IMethods.IEvent

Inheritance diagram for SceneCollection.IMethods.IEvent:



Public Member Functions

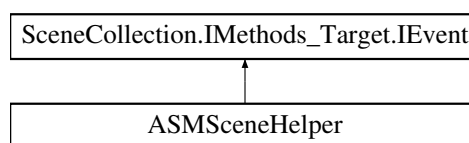
- void **_Open** (bool openAll=false)
- void **_OpenAdditive** (bool openAll=false)
- void **_ToggleOpen** (bool? openState=null)
- void **_Close** ()
- void **_ToggleOpenState** ()

4.39.1 Detailed Description

Specifies methods to be used in UnityEvent, using the collection itself.

4.40 SceneCollection.IMethods_Target.IEvent

Inheritance diagram for SceneCollection.IMethods_Target.IEvent:



Public Member Functions

- void **_Open** ([SceneCollection](#) collection)
- void **_OpenAdditive** ([SceneCollection](#) collection)
- void **_ToggleOpen** ([SceneCollection](#) collection)
- void **_Close** ([SceneCollection](#) collection)

4.40.1 Detailed Description

Specifies methods to be used in UnityEvent, when not using collection itself.

4.41 IFadeLoadingScreen

Used to pass arguments from LoadingScreenUtility.FadeIn>LoadingScreen, float, Color?

Properties

- float **fadeDuration** [get, set]
Specifies the fade duration.
- Color **color** [get, set]
Specifies the color of the fade.

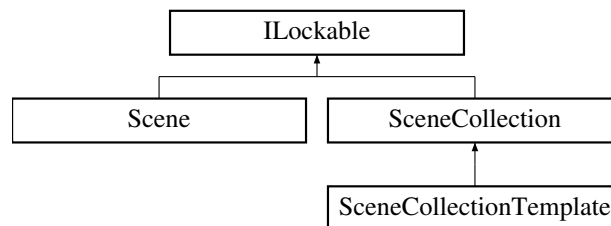
4.41.1 Detailed Description

Used to pass arguments from LoadingScreenUtility.FadeIn>LoadingScreen, float, Color?

4.42 ILockable

Specifies a object that can be locked, using LockUtility.

Inheritance diagram for ILockable:



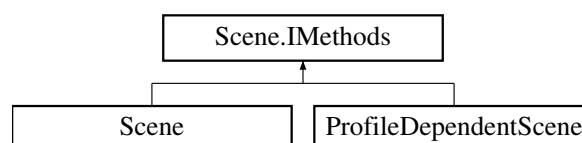
4.42.1 Detailed Description

Specifies a object that can be locked, using LockUtility.

Available, but no effect in build.

4.43 Scene.IMethods

Inheritance diagram for Scene.IMethods:



Classes

- interface [IEvent](#)

Public Member Functions

- [SceneOperation Open](#) ()
Opens the scene.
- [SceneOperation ToggleOpen](#) (bool? openState=null)
Toggles this scene open or closed.
- [SceneOperation Close](#) ()
Closes the scene.
- [SceneOperation Preload](#) (Action onPreloaded=null)
Preloads the scene, to be displayed at a later time. See also: FinishPreload, DiscardPreload.
- [SceneOperation FinishPreload](#) ()
Finishes preloading the scene, displaying it.
- [SceneOperation DiscardPreload](#) ()
Discards the scene, if preloaded.
- [SceneOperation OpenWithLoadingScreen](#) ([Scene](#) loadingScene)
Opens the scene while a loading screen is open.
- void **SetActive** ()
Sets the scene as active in heirarchy.

4.43.1 Detailed Description

Specified methods to be used programmatically, on the scene itself.

4.43.2 Member Function Documentation**4.43.2.1 Close()**

[SceneOperation](#) Close ()

Closes the scene.

No effect if scene is already closed.

Implemented in [ProfileDependentScene](#), and [Scene](#).

4.43.2.2 FinishPreload()

[SceneOperation](#) FinishPreload ()

Finishes preloading the scene, displaying it.

Scene must be preloaded beforehand.

Implemented in [ProfileDependentScene](#), and [Scene](#).

4.43.2.3 Open()

`SceneOperation` `Open ()`

Opens the scene.

No effect if scene is already open.

Implemented in [ProfileDependentScene](#), and [Scene](#).

4.43.2.4 Preload()

`SceneOperation` `Preload (`
 Action onPreloaded = null `)`

Preloads the scene, to be displayed at a later time. See also: `FinishPreload`, `DiscardPreload`.

Scene must be closed beforehand.

Implemented in [ProfileDependentScene](#), and [Scene](#).

4.43.2.5 ToggleOpen()

`SceneOperation` `ToggleOpen (`
 bool? openState = null `)`

Toggles this scene open or closed.

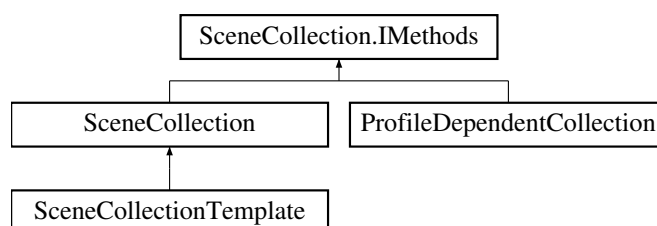
Parameters

<i>openState</i>	Specifies whatever you have a preferred state to toggle to, this means scene will not be closed if <code>true</code> is passed. This can be used to scene collection is open, without having an explicit check beforehand. The inverse is also the case for <code>false</code> .
------------------	--

Implemented in [ProfileDependentScene](#), and [Scene](#).

4.44 SceneCollection.IMethods

Inheritance diagram for `SceneCollection.IMethods`:



Classes

- interface [IEvent](#)

Public Member Functions

- [SceneOperation Open](#) (bool openAll=false)
Opens this collection.
- [SceneOperation OpenAdditive](#) (bool openAll=false)
Opens this collection as additive.
- [SceneOperation ToggleOpen](#) (bool? openState=null, bool openAll=false)
Toggles this collection open or closed.
- [SceneOperation Close](#) ()
Closes this collection.

4.44.1 Detailed Description

Specified methods to be used programmatically, on the collection itself.

4.44.2 Member Function Documentation**4.44.2.1 Close()**

```
SceneOperation Close ( )
```

Closes this collection.

No effect if collection is already closed. Note that "additive collections" are not actually opened, only its scenes are.

Implemented in [SceneCollection](#), and [ProfileDependentCollection](#).

4.44.2.2 Open()

```
SceneOperation Open (
    bool openAll = false )
```

Opens this collection.

Parameters

<i>openAll</i>	Specifies whatever scenes flagged to not open with collection, should.
----------------	--

Reopens all non-persistent scenes.

Implemented in [SceneCollection](#), and [ProfileDependentCollection](#).

4.44.2.3 OpenAdditive()

```
SceneOperation OpenAdditive (
    bool openAll = false )
```

Opens this collection as additive.

Parameters

<i>openAll</i>	Specifies whatever scenes flagged to not open with collection, should.
----------------	--

Additive collections are not "opened", all scenes within are merely opened like normal scenes. Mostly intended for convenience.

Implemented in [SceneCollection](#), and [ProfileDependentCollection](#).

4.44.2.4 ToggleOpen()

```
SceneOperation ToggleOpen (
    bool? openState = null,
    bool openAll = false )
```

Toggles this collection open or closed.

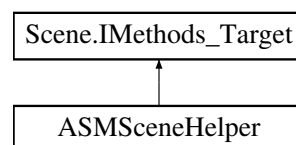
Parameters

<i>openState</i>	Specifies whatever you have a preferred state to toggle to, this means collection will not be closed if <code>true</code> is passed. This can be used to ensure collection is open, without having an explicit check beforehand. The inverse is also the case for <code>false</code> .
<i>openAll</i>	Specifies whatever scenes flagged to not open with collection, should.

Implemented in [SceneCollection](#), and [ProfileDependentCollection](#).

4.45 Scene.IMethods_Target

Inheritance diagram for Scene.IMethods_Target:



Classes

- interface [IEvent](#)

Public Member Functions

- [SceneOperation Open](#) ([Scene](#) scene)
Opens the specified scene.
- [SceneOperation ToggleOpenState](#) ([Scene](#) scene)
Toggles the open state of this scene.
- [SceneOperation ToggleOpen](#) ([Scene](#) scene, bool? openState=null)
Toggles the open state of the specified scene, or ensures the state specified.
- [SceneOperation Close](#) ([Scene](#) scene)
Closes the specified scene.
- [SceneOperation Preload](#) ([Scene](#) scene, Action onPreloaded=null)
Preloads the specified scene, to be displayed at a later time. See also: FinishPreload(Scene), DiscardPreload(← Scene).
- [SceneOperation FinishPreload](#) ([Scene](#) scene)
Finishes preloading the specified scene, displaying it.
- [SceneOperation DiscardPreload](#) ([Scene](#) scene)
Discards the specified scene, if preloaded.
- [SceneOperation OpenWithLoadingScreen](#) ([Scene](#) scene, [Scene](#) loadingScene)
Opens the specified scene while a loading screen is open.
- void [SetActive](#) ([Scene](#) scene)
Sets the specified scene as active in heirarchy.

4.45.1 Detailed Description

Specifies methods to be used programmatically, using scene as first parameter.

4.45.2 Member Function Documentation

4.45.2.1 Close()

```
SceneOperation Close (
    Scene scene )
```

Closes the specified scene.

Already closed scenes not affected.

Implemented in [ASMSceneHelper](#).

4.45.2.2 FinishPreload()

```
SceneOperation FinishPreload (
    Scene scene )
```

Finishes preloading the specified scene, displaying it.

Scene must be preloaded beforehand.

Implemented in [ASMSceneHelper](#).

4.45.2.3 Open()

```
SceneOperation Open (
    Scene scene )
```

Opens the specified scene.

Already open scenes not affected.

Implemented in [ASMSceneHelper](#).

4.45.2.4 Preload()

```
SceneOperation Preload (
    Scene scene,
    Action onPreloaded = null )
```

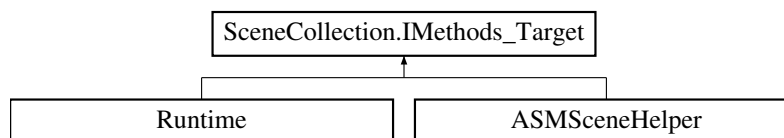
Preloads the specified scene, to be displayed at a later time. See also: [FinishPreload\(Scene\)](#), [DiscardPreload\(←Scene\)](#).

Scene must be closed beforehand.

Implemented in [ASMSceneHelper](#).

4.46 SceneCollection.IMethods_Target

Inheritance diagram for SceneCollection.IMethods_Target:



Classes

- interface [IEvent](#)

Public Member Functions

- [SceneOperation Open](#) ([SceneCollection](#) collection, bool openAll=false)
- [SceneOperation OpenAdditive](#) ([SceneCollection](#) collection, bool openAll=false)
- [SceneOperation ToggleOpen](#) ([SceneCollection](#) collection, bool? openState=null, bool openAll=false)
- [SceneOperation Close](#) ([SceneCollection](#) collection)

4.46.1 Detailed Description

Specifies methods to be used programmatically, using collection as first parameter.

4.47 InitializeInEditorAttribute

Initializes a class in editor on recompile.

Inherits Attribute.

4.47.1 Detailed Description

Initializes a class in editor on recompile.

Available in build, but no effect.

4.48 InitializeInEditorMethodAttribute

Initializes a class in editor on recompile.

Inherits Attribute.

4.48.1 Detailed Description

Initializes a class in editor on recompile.

Available in build, but no effect.

4.49 InputBinding

Represents a input binding for InputSystem. Available even when InputSystem is uninstalled.

Properties

- List< [InputButton](#) > **buttons** [get]
Specifies the buttons.
- bool **openCollectionAsAdditive** [get, set]
Specifies whatever collection should be opened as a collection.
- [InputBindingInteractionType](#) **interactionType** [get, set]
Specifies the interaction type.

4.49.1 Detailed Description

Represents a input binding for InputSystem. Available even when InputSystem is uninstalled.

4.50 InputButton

Specifies a input binding for use with InputSystem.

Public Attributes

- string **name**
Specifies the name of this binding.
- string **path**
Specifies the path of this binding.

Properties

- readonly bool **isValid** [get]
Gets if this binding is valid.

4.50.1 Detailed Description

Specifies a input binding for use with InputSystem.

4.50.2 Member Data Documentation

4.50.2.1 path

```
string path
```

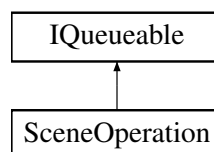
Specifies the path of this binding.

This would be UnityEngine.InputSystem.InputBinding.path.

4.51 IQueueable

Represents a queueable item.

Inheritance diagram for IQueueable:



Public Member Functions

- void **OnTurn** (Action onComplete)
Called when it is this queueables turn.
- void **OnCancel** ()
Called when queueable is cancelled.
- bool **CanQueue** ()
Called to make sure the item can actually be queued.

4.51.1 Detailed Description

Represents a queueable item.

See also QueueUtility<T>.

4.51.2 Member Function Documentation**4.51.2.1 OnTurn()**

```
void OnTurn (
    Action onComplete )
```

Called when it is this queueables turn.

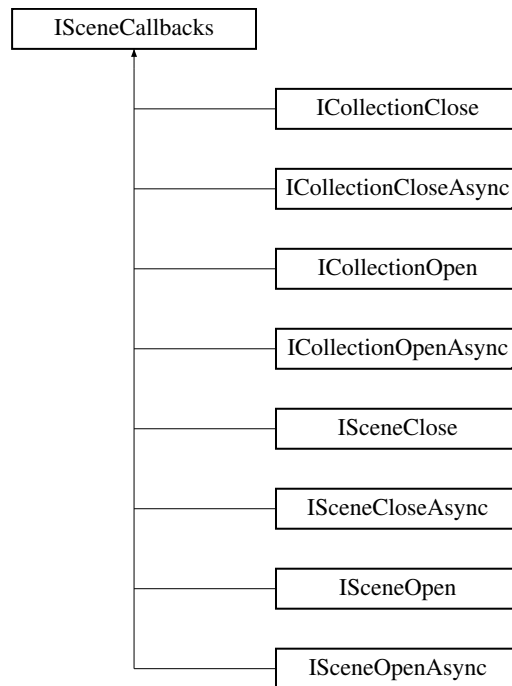
Parameters

<i>onComplete</i>	Must be called when operation is done, otherwise queue will be stuck.
-------------------	---

4.52 ISceneCallbacks

Base interface for ISceneOpen, ISceneClose, ICollectionOpen, ICollectionClose. Does nothing on its own, used by CallbackUtility.

Inheritance diagram for ISceneCallbacks:



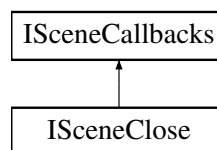
4.52.1 Detailed Description

Base interface for ISceneOpen, ISceneClose, ICollectionOpen, ICollectionClose. Does nothing on its own, used by CallbackUtility.

4.53 ISceneClose

Callback for when the scene that a MonoBehaviour is contained within is closed.

Inheritance diagram for ISceneClose:



Public Member Functions

- void **OnSceneClose** ()

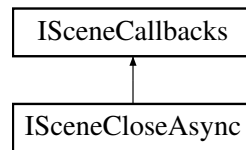
4.53.1 Detailed Description

Callback for when the scene that a MonoBehaviour is contained within is closed.

See also: ISceneCloseAsync.

4.54 ISceneCloseAsync

Inheritance diagram for ISceneCloseAsync:



Public Member Functions

- IEnumerator **OnSceneClose** ()

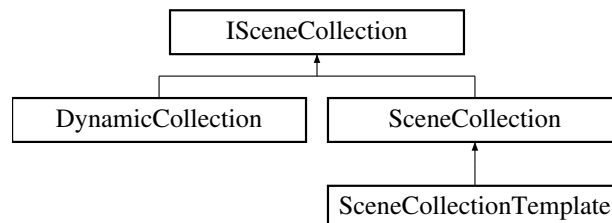
4.54.1 Detailed Description

Scene operation will wait for coroutine callback before continuing.

4.55 ISceneCollection

Represents the core variables of what makes up a scene collection.

Inheritance diagram for ISceneCollection:



Properties

- IEnumerable< [Scene](#) > **scenes** [get]
Gets the scenes of this collection.
- IEnumerable< string > **scenePaths** [get]
Gets the scenes of this collection.
- string **title** [get]
Gets the title of this collection.
- string **description** [get]
Gets the description of this collection.
- int **count** [get]
Gets the scene count of this collection.
- string **id** [get]
Gets the id of this collection.
- [Scene](#) **this[int index]** [get]
Gets the scene at the specified index.

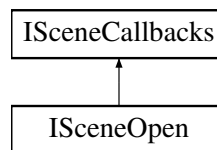
4.55.1 Detailed Description

Represents the core variables of what makes up a scene collection.

4.56 ISceneOpen

Callback for when the scene that a MonoBehaviour is contained within is opened.

Inheritance diagram for ISceneOpen:



Public Member Functions

- void **OnSceneOpen** ()

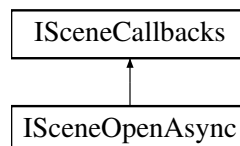
4.56.1 Detailed Description

Callback for when the scene that a MonoBehaviour is contained within is opened.

See also: ISceneOpenAsync.

4.57 ISceneOpenAsync

Inheritance diagram for ISceneOpenAsync:



Public Member Functions

- IEnumerator **OnSceneOpen** ()

4.57.1 Detailed Description

Scene operation will wait for coroutine callback before continuing.

4.58 LerpUtility

Provides some convinience functions for lerping.

Static Public Member Functions

- static IEnumerator **Lerp** (float start, float end, float duration, Action< float > callback, Action on↵ Complete=null)
Lerp from start to end over duration seconds.
- static IEnumerator **Lerp** (Vector3 start, Vector3 end, float duration, Action< Vector3 > callback, Action on↵ Complete=null)
- static IEnumerator **Lerp** (Vector2 start, Vector2 end, float duration, Action< Vector2 > callback, Action on↵ Complete=null)

4.58.1 Detailed Description

Provides some convinience functions for lerping.

4.58.2 Member Function Documentation

4.58.2.1 Lerp()

```
static IEnumerator Lerp (
    float start,
    float end,
    float duration,
    Action< float > callback,
    Action onComplete = null ) [static]
```

Lerp from *start* to *end* over *duration* seconds.

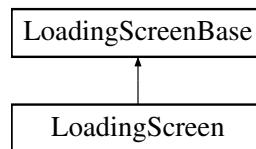
Parameters

<i>start</i>	The start value.
<i>end</i>	The end value.
<i>duration</i>	The duration in seconds to lerp for.
<i>callback</i>	The callback each lerp interval.
<i>onComplete</i>	Callback when complete.

4.59 LoadingScreen

A class that contains callbacks for loading screens.

Inheritance diagram for LoadingScreen:



Public Member Functions

- virtual void **OnProgressChanged** (float progress)
Called when progress has changed.
- override IEnumerator **OnOpen** ()
- override IEnumerator **OnClose** ()

Public Member Functions inherited from [LoadingScreenBase](#)

- IEnumerator **OnOpen** ()
Called when the loading screen is opened.
- IEnumerator **OnClose** ()
Called when the loading screen is about to close.

Properties

- [SceneOperation](#) **operation** [get, set]
The current scene operation that this loading screen is associated with. May be null for the first few frames, before loading has actually begun.

Additional Inherited Members

Public Attributes inherited from [LoadingScreenBase](#)

- Action< [LoadingScreenBase](#) > **onDestroy**
Occurs when loading screen is destroyed.
- Canvas [canvas](#)

4.59.1 Detailed Description

A class that contains callbacks for loading screens.

SplashScreen and LoadingScreen cannot co-exist within the same scene.

4.59.2 Member Function Documentation

4.59.2.1 OnClose()

```
override IEnumerator OnClose ( ) [abstract]
```

Use this callback to hide your loading screen.

4.59.2.2 OnOpen()

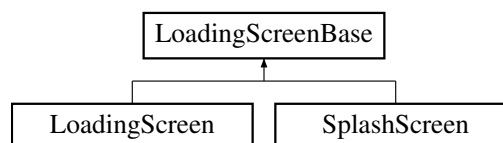
```
override IEnumerator OnOpen ( ) [abstract]
```

Use this callback to show your loading screen, the scene manager will wait until its done.

4.60 LoadingScreenBase

A generic base class for loading screens. You probably want to inherit from LoadingScreen though.

Inheritance diagram for LoadingScreenBase:



Public Member Functions

- IEnumerator **OnOpen** ()
Called when the loading screen is opened.
- IEnumerator **OnClose** ()
Called when the loading screen is about to close.

Public Attributes

- Action< [LoadingScreenBase](#) > **onDestroy**
Occurs when loading screen is destroyed.
- Canvas [canvas](#)

4.60.1 Detailed Description

A generic base class for loading screens. You probably want to inherit from LoadingScreen though.

When multiple loading screens exist within the same scene, only the first found one will be used.

4.60.2 Member Data Documentation

4.60.2.1 canvas

```
Canvas canvas
```

The canvas that this loading screen uses.

This will automatically register canvas with CanvasSortOrderUtility, to automatically manage canvas sort order.

You probably want to set this through the inspector.

4.61 LoadingScreenUtility

Manager for loading screens.

Static Public Member Functions

- static bool **IsLoadingScreenOpen** (Scene scene)
Gets if this scene is a loading screen.
- static Async< T > **OpenLoadingScreen**< T > (Scene loadingScene, SceneOperation operation=null, Action< T > callbackBeforeBegin=null, Action< float > progress=null)
Shows a loading screen.
- static IEnumerator **CloseLoadingScreen** (Scene scene)
- static IEnumerator **CloseLoadingScreen** (LoadingScreenBase loadingScreen, Action< float > progress=null, bool closeScene=true)
Hide the loading screen.
- static IEnumerator **CloseLoadingScreenScene** (Scene scene, Action< float > progress=null)
Close the scene that contained a loading screen.
- static IEnumerator **CloseAll** ()
Hide all loading screens.
- static Async< LoadingScreen > **FadeOut** (float duration=1, Color? color=null, Action< float > progress=null)
Fades out the screen.
- static IEnumerator **FadeIn** (LoadingScreenBase loadingScreen, float duration=1, Color? color=null, Action< float > progress=null)
Fades in the screen.
- static IEnumerator **DoAction** (Scene scene, Action action, Action< LoadingScreenBase > loadingScreen↔ Callback=null)
- static IEnumerator **DoAction** (Scene scene, Func< IEnumerator > coroutine, Action< LoadingScreenBase > loadingScreenCallback=null)
Opens loading screen, performs action and hides loading screen again.
- static IEnumerator **WithProgress** (this AsyncOperation asyncOperation, Action< float > onProgress)
Returns a coroutine that returns when AsyncOperation.isDone becomes true. onProgress will be called every frame with AsyncOperation.progress.
- static AsyncOperation **Preload** (this AsyncOperation asyncOperation, out Func< IEnumerator > activate↔ Callback)
Sets AsyncOperation.allowSceneActivation to false.

Properties

- static bool **isAnyLoadingScreenOpen** [get]
Gets if any loading screens are open.
- static Scene **fade** [get]
Finds the default fade loading screen. Will be null if not included in build.
- static Scene **defaultLoadingScreen** [get]
Gets the current default loading screen.
- static IEnumerable< LoadingScreenBase > **loadingScreens** [get]
The currently open loading screens.

4.61.1 Detailed Description

Manager for loading screens.

4.61.2 Member Function Documentation

4.61.2.1 CloseLoadingScreen()

```
static IEnumerator CloseLoadingScreen (
    LoadingScreenBase loadingScreen,
    Action< float > progress = null,
    bool closeScene = true ) [static]
```

Hide the loading screen.

Parameters

<i>loadingScreen</i>	The loading screen to hide.
<i>progress</i>	The callback to receive progress.
<i>closeScene</i>	Specifies whatever the scene should be closed afterwards. Use <code>CloseLoadingScreenScene(Scene, Action<float>)</code> if <code>false</code> .

4.61.2.2 DoAction()

```
static IEnumerator DoAction (
    Scene scene,
    Func< IEnumerator > coroutine,
    Action< LoadingScreenBase > loadingScreenCallback = null ) [static]
```

Opens loading screen, performs action and hides loading screen again.

Parameters

<i>scene</i>	The loading screen scene.
<i>coroutine</i>	To coroutine to execute.
<i>loadingScreenCallback</i>	The callback to perform when loading script is loaded, but before ASM has called <code>LoadingScreenBase.OnOpen()</code> .

4.62 MainThreadUtility

Static Public Member Functions

- static T `Invoke< T >` (Func< T > func)
Queues the function to be run on the main thread, during the next frame.
- static void `Invoke` (Action action)
Queues the action to be run on the main thread, during the next frame.
- static T `Invoke< T >` (this Func< T > func, bool mainThread=false)
Invokes the action .
- static void `Invoke` (this Action action, bool mainThread=false)
Invokes the action .
- static void `Start` ()
Starts main thread utility coroutine.
- static void `Stop` ()
Stops main thread utility coroutine.

Properties

- static bool **isEnabled** [get]
Gets whatever MainThreadUtility is enabled, set to `false` in source code to disable.
- static bool **isOnMainThread** [get]
Gets if the thread we're currently on is the main thread.
- static bool **IsRunning** [get]
Gets if main thread utility is running.

4.62.1 Detailed Description

An utility for running actions on the main thread.

Only usable in play mode.

4.62.2 Member Function Documentation

4.62.2.1 Invoke() [1/2]

```
static void Invoke (
    Action action ) [static]
```

Queues the action to be run on the main thread, during the next frame.

Parameters

<i>action</i>	The action to invoke.
---------------	-----------------------

4.62.2.2 Invoke() [2/2]

```
static void Invoke (
    this Action action,
    bool mainThread = false ) [static]
```

Invokes the *action* .

Parameters

<i>action</i>	The action to invoke.
<i>mainThread</i>	Queues the action to be run on the main thread, during the next frame.

4.62.2.3 Invoke< T >() [1/2]

```
static T Invoke< T > (
    Func< T > func ) [static]
```

Queues the function to be run on the main thread, during the next frame.

Parameters

<i>func</i>	The action to invoke.
-------------	-----------------------

4.62.2.4 Invoke< T >() [2/2]

```
static T Invoke< T > (
    this Func< T > func,
    bool mainThread = false ) [static]
```

Invokes the *action* .

Parameters

<i>func</i>	The action to invoke.
<i>mainThread</i>	Queues the action to be run on the main thread, during the next frame.

4.63 ObjectReference

A reference to an object in a scene.

Inherits `IEqualityComparer< ObjectReference >`.

Public Member Functions

- **ObjectReference With** (Component component)
Adds data about a component.
- **ObjectReference With** (int? unityEventIndex=null, int? arrayIndex=null)
Adds data about an unity event.
- **bool IsValid** (bool returnTrueWhenScenelsUnloaded=false)
Returns true if the reference is still valid.

4.63.1 Detailed Description

A reference to an object in a scene.

4.64 ParallelASMCallbacks

Specifies whatever the ASM callbacks should be run in parallel for any callbacks defined in this script.

Inherits `Attribute`.

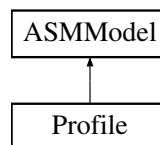
4.64.1 Detailed Description

Specifies whatever the ASM callbacks should be run in parallel for any callbacks defined in this script.

4.65 Profile

A profile, contains settings, collections.

Inheritance diagram for Profile:



Public Member Functions

- bool **IsStartupCollection** ([SceneCollection](#) collection)
Gets whatever the specified collection is a startup collection.
- int **IndexOf** ([SceneCollection](#) collection)
Gets the index of the specified collection.
- int **IndexOf** ([DynamicCollection](#) collection)
Gets the index of the specified collection.
- bool **Contains** ([ISceneCollection](#) collection, bool checkRemoved=false)
Gets whatever this profile contains the specified collection.
- IEnumerable< [ISceneCollection](#) > **FindCollections** ([Scene](#) scene)
Finds all collection that the scene is included in. Includes dynamic collections.
- override string **ToString** (int indent)

Public Member Functions inherited from [ASMMModel](#)

- virtual void **Save** ()
Saves the scriptable object after modifying.
- void **MarkAsDirty** ()
Mark scriptable object as dirty after modifying.
- virtual bool **IsMatch** (string q)
Gets if q matches name.
- override string **ToString** ()
Gets a text summarization of this model.

Static Public Member Functions

- static [Profile](#) **Find** (string q)
Finds the profile with the specified name or id.
- static bool **TryFind** (string q, out [Profile](#) profile)
Finds the profile with the specified name or id.

Static Public Attributes

- static readonly string **AssetSearchString** = "t:" + typeof(Profile).FullName
Gets 't:AdvancedSceneManager.Models.Profile', the string to use in AssetDatabase.FindAssets(string).

Properties

- static Profile **current** [get]
Gets the currently active profile.
- IEnumerable< Scene > **scenes** [get]
Gets the scenes managed by this profile.
- IEnumerable< SceneCollection > **collections** [get]
Gets the collections contained within this profile.
- IEnumerable< DynamicCollection > **dynamicCollections** [get]
Gets the dynamic collections contained within this profile.
- StandaloneCollection **standaloneScenes** [get]
Gets the standalone scenes contained within this profile.
- IEnumerable< Scene > **startupScenes** [get]
Gets the scenes flagged to open on startup.
- IEnumerable< ISceneCollection > **removedCollections** [get]
Gets all removed collections in this profile.
- IEnumerable< ISceneCollection > **allCollections** [get]
Gets collections, standaloneScenes, dynamicCollections.
- IEnumerable< Scene > **specialScenes** [get]
Gets default loading screen, splash screen and startup loading screen.
- IEnumerable< SceneCollection > **startupCollections** [get]
Gets the collections that will be opened on startup.
- Scene **startupScene** [get, set]
The startup scene.
- Scene **startupLoadingScreen** [get, set]
The loading screen to use during startup.
- Scene **loadingScreen** [get, set]
The default loading screen.
- Scene **splashScreen** [get, set]
The splash screen.
- ThreadPriority **backgroundLoadingPriority** [get, set]
Application.backgroundLoadingPriority setting is not saved, and must be manually set every time build or editor starts, this property persists the value and automatically sets it during startup.
- bool **enableChangingBackgroundLoadingPriority** [get, set]
Enable or disable ASM automatically changing Application.backgroundLoadingPriority.
- bool **createCameraDuringStartup** [get, set]
Enable or disable ASM automatically creating a camera during startup.
- bool **unloadUnusedAssetsForStandalone** [get, set]
Enable or disable ASM calling Resources.UnloadUnusedAssets after standalone scenes has been opened or closed.

Properties inherited from ASMMModel

- string **id** [get]
Gets the id of this ASMMModel.
- new string **name** [get, protected set]

Additional Inherited Members

Static Protected Member Functions inherited from [ASMMModel](#)

- static T **CreateInternal**< T > (string [name](#))
Creates a profile. Throws if name is invalid.

4.65.1 Detailed Description

A profile, contains settings, collections.

4.65.2 Member Function Documentation

4.65.2.1 ToString()

```
override string ToString (
    int indent ) [virtual]
```

Parameters

<i>indent</i>	The indentation level, used for nested calls.
---------------	---

Parameters

<i>indent</i>	The indentation level, used for nested calls.
---------------	---

Reimplemented from [ASMMModel](#).

4.65.3 Property Documentation

4.65.3.1 removedCollections

```
IEnumerable<ISceneCollection> removedCollections [get]
```

Gets all removed collections in this profile.

Removed collections still exist until deleted, and may be manually opened, but they will not be listed in collections or dynamicCollections.

4.65.3.2 scenes

```
IEnumerable<Scene> scenes [get]
```

Gets the scenes managed by this profile.

Includes both collection and standalone scenes.

4.65.3.3 specialScenes

```
IEnumerable<Scene> specialScenes [get]
```

Gets default loading screen, splash screen and startup loading screen.

`null` is filtered out.

4.65.3.4 startupCollections

```
IEnumerable<SceneCollection> startupCollections [get]
```

Gets the collections that will be opened on startup.

If no collection is explicitly defined to be opened during startup, then the first available collection in list will be returned.

4.66 ProfileDependent< T >

Specifies a *T* that changes depending on active Profile.

Inherits ScriptableObject.

Classes

- class [Dict](#)
A dictionary of type Profile, T.

Public Member Functions

- bool [GetModel](#) (out T scene)
Gets the selected scene.
- T2 [DoAction](#)< T2 > (Func< T, T2 > action)
Performs an action on the scene.
- void [DoAction](#) (Action< T > action)
Performs an action on the scene.

Public Attributes

- [Dict list](#) = new [Dict](#)()
The list of proxies for this T.

Properties

- bool [IsValid](#) [get]
Gets if the current state of this T is valid.

4.66.1 Detailed Description

Specifies a *T* that changes depending on active Profile.

Type Constraints

T : *ASMMModel*

4.66.2 Member Function Documentation

4.66.2.1 DoAction()

```
void DoAction (
    Action< T > action )
```

Performs an action on the scene.

Does nothing if isValid is false.

4.66.2.2 DoAction< T2 >()

```
T2 DoAction< T2 > (
    Func< T, T2 > action )
```

Performs an action on the scene.

Does nothing if isValid is false.

4.66.2.3 GetModel()

```
bool GetModel (
    out T scene )
```

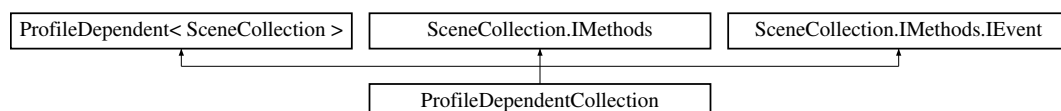
Gets the selected scene.

Returns null if scene something went wrong.

4.67 ProfileDependentCollection

Represents a SceneCollection that changes depending on active Profile.

Inheritance diagram for ProfileDependentCollection:



Public Member Functions

- [SceneOperation Open](#) (bool openAll=false)
Opens this collection.
- [SceneOperation OpenAdditive](#) (bool openAll=false)
Opens this collection as additive.
- [SceneOperation ToggleOpen](#) (bool? openState=null, bool openAll=false)
Toggles this collection open or closed.
- [SceneOperation Close](#) ()
Closes this collection.
- void **_Open** (bool openAll=false)
- void **_OpenAdditive** (bool openAll=false)
- void **_ToggleOpen** (bool? openState=null)
- void **_ToggleOpenState** ()
- void **_Close** ()

Public Member Functions inherited from [ProfileDependent< SceneCollection >](#)

- bool [GetModel](#) (out T scene)
Gets the selected scene.
- T2 [DoAction< T2 >](#) (Func< T, T2 > action)
Performs an action on the scene.
- void [DoAction](#) (Action< T > action)
Performs an action on the scene.

Additional Inherited Members**Public Attributes inherited from [ProfileDependent< SceneCollection >](#)**

- Dict **list**
The list of proxies for this T .

Properties inherited from [ProfileDependent< SceneCollection >](#)

- bool **isValid** [get]
Gets if the current state of this T is valid.

4.67.1 Detailed Description

Represents a SceneCollection that changes depending on active Profile.

4.67.2 Member Function Documentation**4.67.2.1 Close()**

```
SceneOperation Close ( )
```

Closes this collection.

No effect if collection is already closed. Note that "additive collections" are not actually opened, only its scenes are.

Implements [SceneCollection.IMethods](#).

4.67.2.2 Open()

```
SceneOperation Open (
    bool openAll = false )
```

Opens this collection.

Parameters

<i>openAll</i>	Specifies whatever scenes flagged to not open with collection, should.
----------------	--

Reopens all non-persistent scenes.

Implements [SceneCollection.IMethods](#).

4.67.2.3 OpenAdditive()

```
SceneOperation OpenAdditive (
    bool openAll = false )
```

Opens this collection as additive.

Parameters

<i>openAll</i>	Specifies whatever scenes flagged to not open with collection, should.
----------------	--

Additive collections are not "opened", all scenes within are merely opened like normal scenes. Mostly intended for convenience.

Implements [SceneCollection.IMethods](#).

4.67.2.4 ToggleOpen()

```
SceneOperation ToggleOpen (
    bool? openState = null,
    bool openAll = false )
```

Toggles this collection open or closed.

Parameters

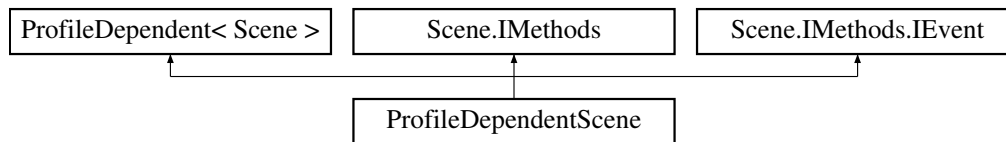
<i>openState</i>	Specifies whatever you have a preferred state to toggle to, this means collection will not be closed if <code>true</code> is passed. This can be used to ensure collection is open, without having an explicit check beforehand. The inverse is also the case for <code>false</code> .
<i>openAll</i>	Specifies whatever scenes flagged to not open with collection, should.

Implements [SceneCollection.IMethods](#).

4.68 ProfileDependentScene

Represents a Scene that changes depending on active Profile.

Inheritance diagram for ProfileDependentScene:



Public Member Functions

- [SceneOperation Open](#) ()
Opens the scene.
- [SceneOperation ToggleOpen](#) (bool? openState=null)
Toggles this scene open or closed.
- [SceneOperation Close](#) ()
Closes the scene.
- [SceneOperation Preload](#) (Action onPreloaded=null)
Preloads the scene, to be displayed at a later time. See also: FinishPreload, DiscardPreload.
- [SceneOperation FinishPreload](#) ()
Finishes preloading the scene, displaying it.
- [SceneOperation DiscardPreload](#) ()
Discards the scene, if preloaded.
- [SceneOperation OpenWithLoadingScreen](#) ([Scene](#) loadingScreen)
Opens the scene while a loading screen is open.
- void **SetActive** ()
Sets the scene as active in heirarchy.
- void **_Open** ()
Event method. Its meant for UnityEngine.Events.UnityEvent.
- void **_ToggleOpenState** ()
- void **_ToggleOpen** (bool? openState=null)
- void **_Close** ()
- void **_Preload** ()
- void **_FinishPreload** ()
- void **_DiscardPreload** ()
- void **_OpenWithLoadingScreen** ([Scene](#) loadingScene)
- void **_SetActive** ()

Public Member Functions inherited from [ProfileDependent< Scene >](#)

- bool [GetModel](#) (out T scene)
Gets the selected scene.
- T2 [DoAction< T2 >](#) (Func< T, T2 > action)
Performs an action on the scene.
- void [DoAction](#) (Action< T > action)
Performs an action on the scene.

Additional Inherited Members

Public Attributes inherited from [ProfileDependent< Scene >](#)

- Dict **list**

The list of proxies for this T .

Properties inherited from [ProfileDependent< Scene >](#)

- bool **isValid** [get]

Gets if the current state of this T is valid.

4.68.1 Detailed Description

Represents a Scene that changes depending on active Profile.

4.68.2 Member Function Documentation

4.68.2.1 Close()

[SceneOperation](#) Close ()

Closes the scene.

No effect if scene is already closed.

Implements [Scene.IMethods](#).

4.68.2.2 FinishPreload()

[SceneOperation](#) FinishPreload ()

Finishes preloading the scene, displaying it.

Scene must be preloaded beforehand.

Implements [Scene.IMethods](#).

4.68.2.3 Open()

[SceneOperation](#) Open ()

Opens the scene.

No effect if scene is already open.

Implements [Scene.IMethods](#).

4.68.2.4 Preload()

```
SceneOperation Preload (
    Action onPreloaded = null )
```

Preloads the scene, to be displayed at a later time. See also: FinishPreload, DiscardPreload.

Scene must be closed beforehand.

Implements [Scene.IMethods](#).

4.68.2.5 ToggleOpen()

```
SceneOperation ToggleOpen (
    bool? openState = null )
```

Toggles this scene open or closed.

Parameters

<i>openState</i>	Specifies whatever you have a preferred state to toggle to, this means scene will not be closed if <code>true</code> is passed. This can be used to scene collection is open, without having an explicit check beforehand. The inverse is also the case for <code>false</code> .
------------------	--

Implements [Scene.IMethods](#).

4.69 App.Props

An object that persists start properties across domain reload, which is needed when configurable enter play mode is set to reload domain on enter play mode.

Public Member Functions

- **Props ()**
Creates a new props.
- **Props (Props props)**
Creates a new props, from the specified props, copying its values.

Public Attributes

- bool? **displaySplashScreen** = null
Specifies whatever the splash screen should be played.
- bool **forceOpenAllScenesOnCollection** = false
Specifies whatever all scenes on openCollection should be opened.
- Color? **fadeColor**
The color for the fade out.
- float **fadeInDuration** = 1f
Specifies the duration for the fade out animation.
- float **fadeOutDuration** = 1f
Specifies the duration for the fade in animation.
- **SceneCollection openCollection**
Specifies a collection to be opened after startup process is done.

Properties

- static `Props defaultProps = new()` [get]
Gets the default Props.
- bool `runStartupProcessWhenPlayingCollection` [get, set]
Specifies whatever startup process should run before openCollection is opened.
- bool `runStartupProcess` [get]
Gets if startup process should run.
- Color `effectiveFadeColor` [get]
Gets the effective fade animation color, uses fadeColor if specified, but falls back to ProjectSettings.buildUnity←→ SplashScreenColor.

4.69.1 Detailed Description

An object that persists start properties across domain reload, which is needed when configurable enter play mode is set to reload domain on enter play mode.

4.69.2 Member Data Documentation

4.69.2.1 fadeColor

`Color? fadeColor`

The color for the fade out.

Unity splash screen color will be used if `null`.

4.69.2.2 fadeOutDuration

`float fadeOutDuration = 1f`

Specifies the duration for the fade in animation.

This would normally be 0 during first startup, then on restart it would be > 0 .

4.69.3 Property Documentation

4.69.3.1 defaultProps

`Props defaultProps = new()` [static], [get]

Gets the default Props.

Cannot be called during Object constructor.

4.70 QueueUtility< T >

A utility that provides queuing.

Static Public Member Functions

- static bool **IsQueued** (T queueable)
Get if the item is queued.
- static bool **IsRunning** (T queueable)
Gets if the item is running.
- static void **Stop** (T queueable)
Cancel the queueable.
- static void **StopAll** ()
Cancel all queued and running items.

Properties

- static bool **isBusy** [get]
Gets whatever any items in the queue are running.
- static IEnumerable< T > **queue** [get]
Gets the items currently in queue.
- static IEnumerable< T > **running** [get]
Gets the items that are currently running.

Events

- static Action **queueEmpty**
Occurs when an queued item finishes and queue is empty.
- static Action **queueFilled**
Occurs when an queued is added.

4.70.1 Detailed Description

A utility that provides queuing.

Type Constraints

T: *IQueueable*

4.71 ResolvedCrossReference

Represents a resolved reference.

Public Attributes

- [CrossSceneReference](#) **reference**
The unresolved reference.
- [ObjectReference](#) **reference**
The unresolved and resolved reference to the variable.
- [ResolveStatus](#) **result**
The result when setting value.

4.71.1 Detailed Description

Represents a resolved reference.

4.71.2 Member Data Documentation

4.71.2.1 **reference** [1/2]

[ObjectReference](#) **reference**

The unresolved reference.

The unresolved and resolved reference to the value.

4.71.2.2 **reference** [2/2]

[ObjectReference](#) **reference**

The unresolved and resolved reference to the variable.

The unresolved and resolved reference to the value.

4.72 ResolvedReference

Represents a resolved ObjectReference.

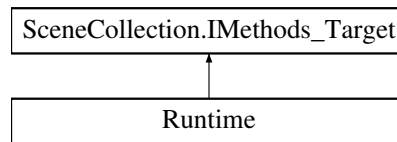
4.72.1 Detailed Description

Represents a resolved ObjectReference.

4.73 Runtime

Manages runtime functionality for Advanced Scene Manager such as open scenes and collection.

Inheritance diagram for Runtime:



Public Member Functions

- `IEnumerable< SceneLoader > GetToggleableSceneLoaders ()`
Gets a list of all added scene loaders that can be toggled scene by scene.
- `SceneLoader GetLoaderForScene (Scene scene)`
Gets the loader for scene .
- `void AddSceneLoader< T > ()`
Adds a scene loader.
- `void RemoveSceneLoader< T > ()`
Removes a scene loader.
- `SceneOperation Open (params Scene[] scenes)`
- `SceneOperation Open (IEnumerable< Scene > scenes)`
Opens the scenes.
- `SceneOperation OpenWithLoadingScreen (IEnumerable< Scene > scene, Scene loadingScreen)`
Opens a scene with a loading screen.
- `SceneOperation Close (params Scene[] scenes)`
- `SceneOperation Close (IEnumerable< Scene > scenes)`
Closes the scenes.
- `SceneOperation FinishPreload ()`
Finishes the preload of the currently preloaded scene.
- `SceneOperation DiscardPreload (Scene scene)`
Discards preload of the scene, if preloaded.
- `SceneOperation DiscardPreload ()`
Discards the preload of the currently preloaded scene.
- `SceneOperation ToggleOpenState (Scene scene)`
- `SceneOperation ToggleOpen (Scene scene, bool? openState=null)`
Toggles the open state of this scene.
- `void SetActive (Scene scene)`
Sets the scene as active.
- `SceneOperation Open (SceneCollection collection, bool openAll=false)`
- `SceneOperation OpenAdditive (SceneCollection collection, bool openAll=false)`
Opens the collection without closing existing scenes.
- `SceneOperation Close (SceneCollection collection)`
- `SceneOperation ToggleOpenState (SceneCollection collection, bool openAll=false)`
- `SceneOperation ToggleOpen (SceneCollection collection, bool? openState=null, bool openAll=false)`
- `SceneState GetState (Scene scene)`
Gets the current state of the scene.
- `void Track (Scene scene, UnityEngine.SceneManagement.Scene unityScene)`

- Tracks the specified scene as open.*
- void **Track** ([Scene](#) scene)
- bool **Untrack** ([Scene](#) scene)
- Untracks the specified scene as open.*
- void **UntrackScenes** ()
- Untracks all open scenes.*
- void **Track** ([SceneCollection](#) collection, bool isAdditive=false)
- Tracks the collection as open.*
- void **Untrack** ([SceneCollection](#) collection, bool isAdditive=false)
- Untracks the collection.*
- void **UntrackCollections** ()
- Untracks all collections.*
- bool **IsTracked** ([Scene](#) scene)
- Gets whatever this scene is tracked as open.*
- bool **IsTracked** ([SceneCollection](#) collection)
- Gets whatever this collection is tracked as open.*
- [SceneOperation](#) **CloseAll** (bool exceptLoadingScreens=true, bool exceptUnimported=true, params [Scene](#)[])
except)
- Closes all scenes and collections.*

Public Attributes

- Action [onAllScenesClosed](#)
- Occurs when the last user scene closes.*

Properties

- IEnumerable< [Scene](#) > **openScenes** [get]
- Gets the scenes that are open.*
- IEnumerable< [SceneCollection](#) > **openAdditiveCollections** [get]
- Gets the collections that are opened as additive.*
- [SceneCollection](#) **openCollection** [get]
- Gets the collection that is currently open.*
- [Scene](#) **preloadedScene** [get]
- Gets the scene that is currently preloaded.*
- [Scene](#) **activeScene** [get]
- Gets the active scene.*
- [Scene](#) **dontDestroyOnLoad** [get]
- Gets the dontDestroyOnLoad scene.*
- bool **isBusy** [get]
- Gets whatever ASM is busy with any scene operations.*
- IEnumerable< [SceneOperation](#) > **runningOperations** [get]
- The currently running scene operations.*
- IEnumerable< [SceneOperation](#) > **queuedOperations** [get]
- Gets the current scene operation queue.*
- [SceneOperation](#) **currentOperation** [get]
- Gets the current active operation in the queue.*

Events

- Action< [Scene](#) > **sceneOpened**
Occurs when a scene is opened.
- Action< [Scene](#) > **sceneClosed**
Occurs when a scene is closed.
- Action< [SceneCollection](#) > **collectionOpened**
Occurs when a collection is opened.
- Action< [SceneCollection](#) > **collectionClosed**
Occurs when a collection is closed.
- Action< [Scene](#) > **scenePreloaded**
Occurs when a scene is preloaded.
- Action **startedWorking**
Occurs when ASM has started working and is running scene operations.
- Action **stoppedWorking**
Occurs when ASM has finished working and no scene operations are running.

4.73.1 Detailed Description

Manages runtime functionality for Advanced Scene Manager such as open scenes and collection.

4.73.2 Member Function Documentation

4.73.2.1 Close()

```
SceneOperation Close (
    IEnumerable< Scene > scenes )
```

Closes the scenes.

Closes persistent scenes.

4.73.2.2 Open()

```
SceneOperation Open (
    IEnumerable< Scene > scenes )
```

Opens the scenes.

Open scenes will not be re-opened, please close it first.

4.73.2.3 OpenAdditive()

```
SceneOperation OpenAdditive (
    SceneCollection collection,
    bool openAll = false )
```

Opens the collection without closing existing scenes.

Parameters

<i>collection</i>	The collection to open.
<i>openAll</i>	Specifies whatever all scenes should open, regardless of open flag.

Implements [SceneCollection.IMethods_Target](#).

4.73.2.4 SetActive()

```
void SetActive (
    Scene scene )
```

Sets the scene as active.

No effect if not open.

4.73.2.5 Track() [1/2]

```
void Track (
    Scene scene,
    UnityEngine::SceneManagement::Scene unityScene )
```

Tracks the specified scene as open.

Does not open scene.

4.73.2.6 Track() [2/2]

```
void Track (
    SceneCollection collection,
    bool isAdditive = false )
```

Tracks the collection as open.

Does not open collection.

4.73.2.7 Untrack() [1/2]

```
bool Untrack (
    Scene scene )
```

Untracks the specified scene as open.

Does not close scene.

4.73.2.8 Untrack() [2/2]

```
void Untrack (
    SceneCollection collection,
    bool isAdditive = false )
```

Untracks the collection.

Does not close the collection.

4.73.2.9 UntrackCollections()

```
void UntrackCollections ( )
```

Untracks all collections.

Does not close collections.

4.73.2.10 UntrackScenes()

```
void UntrackScenes ( )
```

Untracks all open scenes.

Does not close scenes.

4.73.3 Member Data Documentation

4.73.3.1 onAllScenesClosed

```
Action onAllScenesClosed
```

Occurs when the last user scene closes.

This usually happens by mistake, and likely means that no user code would run, this is your chance to restore to a known state (return to main menu, for example), or crash to desktop.

Returning to main menu can be done like this:

```
SceneManager.app.Restart()
```

4.73.4 Property Documentation

4.73.4.1 activeScene

```
Scene activeScene [get]
```

Gets the active scene.

Returns `null` if the active scene is not imported.

4.73.4.2 dontDestroyOnLoad

`Scene dontDestroyOnLoad [get]`

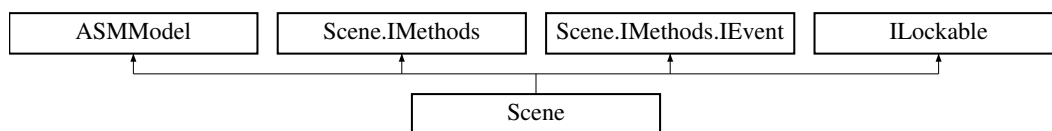
Gets the dontDestroyOnLoad scene.

Returns `null` outside of play mode.

4.74 Scene

Represents a scene.

Inheritance diagram for Scene:



Classes

- interface [IMethods](#)
- interface [IMethods_Target](#)

Public Member Functions

- `IEnumerable< GameObject > GetRootGameObjects ()`
Gets the root game objects in this Scene.
- `T FindObject< T > ()`
Finds the object in the hierarchy of this Scene.
- `bool FindObject< T > (out T component)`
- `IEnumerable< T > FindObjects< T > ()`
Finds the objects in the hierarchy of this Scene.
- `SceneOperation Open ()`
Opens the scene.
- `SceneOperation ToggleOpen (bool? openState=null)`
Toggles this scene open or closed.
- `SceneOperation Close ()`
Closes the scene.
- `SceneOperation Preload (Action onPreloaded=null)`
Preloads the scene, to be displayed at a later time. See also: [FinishPreload](#), [DiscardPreload](#).
- `SceneOperation FinishPreload ()`
Finishes preloading the scene, displaying it.
- `SceneOperation DiscardPreload ()`
Discards the scene, if preloaded.
- `SceneOperation OpenWithLoadingScreen (Scene loadingScreen)`
Opens the scene while a loading screen is open.
- `void SetActive ()`

- Sets the scene as active in heirarchy.*
- void **_Open** ()
 - Event method. Its meant for UnityEngine.Events.UnityEvent.*
- void **_ToggleOpenState** ()
- void **_ToggleOpen** (bool? openState=null)
- void **_Close** ()
- void **_Preload** ()
- void **_FinishPreload** ()
- void **_DiscardPreload** ()
- void **_OpenWithLoadingScreen** ([Scene](#) loadingScene)
- void **_SetActive** ()
- override bool **IsMatch** (string q)
 - Gets if q matches ASMMModel.name, id, path.*
- T **UserData**< T > (T defaultValue=default)
 - Gets user specified data.*
- T **UserData**< T > (string key, T defaultValue=default)
 - Gets user specified data.*
- void **SetUserData**< T > (T value)
 - Sets user specified data.*
- void **SetUserData**< T > (string key, T value)
 - Sets user specified data.*
- void **UnsetUserData**< T > ()
 - Unsets user specified data.*
- void **UnsetUserData** (string key)
 - Unsets user specified data.*
- bool **EvalOpenAsPersistent** ([SceneCollection](#) parentCollection, [SceneCollection](#) collectionToOpen=null)
 - Gets whatever this scene will be opened as persistent.*
- void **SetSceneLoader**< T > ()
 - Specifies the scene loader to use for this scene.*
- Type **GetSceneLoader** ()
 - Gets the scene loader specified for this scene. null if none set.*
- [SceneLoader](#) **GetEffectiveSceneLoader** ()
 - Gets the effective, contextual, scene loader for this scene. null if none found (this means normal ASM loader will be used).*
- void **ClearSceneLoader** ()
 - Clears custom scene loader for this scene. This means normal ASM functionality will be used.*
- override string **ToString** (int indent)

Public Member Functions inherited from [ASMMModel](#)

- virtual void **Save** ()
 - Saves the scriptable object after modifying.*
- void **MarkAsDirty** ()
 - Mark scriptable object as dirty after modifying.*
- override string **ToString** ()
 - Gets a text summarization of this model.*

Static Public Member Functions

- static IEnumerable< [Scene](#) > **Find** (Func< [Scene](#), bool > predicate)
Find scenes by predicate, in the specified collection or profile, if defined.
- static [Scene](#) **Find** (string q)
Find scene by name, path, or id, in the specified collection or profile, if defined.
- static bool **TryFind** (string q, out [Scene](#) scene)

Static Public Attributes

- static readonly string **AssetSearchString** = "t:" + typeof([Scene](#)).FullName
Gets 't:AdvancedSceneManager.Models.Scene', the string to use in AssetDatabase.FindAssets(string).

Properties

- string **path** [get, set]
Gets the path of the associated SceneAsset.
- bool **isLoadingScreen** [get, set]
Gets if this scene is a loading screen.
- bool **isSplashScreen** [get, set]
Gets if this scene is a splash screen.
- bool **isSpecial** [get]
Gets if this is a 'special' scene.
- bool **isIncluded** [get]
Gets whatever this scene is included in build.
- bool **keepOpenWhenCollectionsClose** [get, set]
Specifies whatever this scene will remain open when collections close.
- bool **keepOpenWhenNewCollectionWouldReopen** [get, set]
Specifies whatever this will remain open when a newly opened collection would have reopened it.
- bool **isNonPersistent** [get]
Gets whatever this scene will close normally after a collection closes.
- bool **openOnStartup** [get, set]
Specifies whatever this scene should be opened on startup.
- bool **openOnPlayMode** [get, set]
Specifies whatever this scene should be opened when entering playmode.
- [EditorPersistentOption](#) **autoOpenInEditor** [get, set]
Specifies whatever this scene should be opened automatically outside of play-mode.
- List< [Scene](#) > **autoOpenInEditorScenes** [get]
*Specifies the scenes that should trigger this scene to open when autoOpenInEditor is set to EditorPersistentOption.↔
WhenAnyOfTheFollowingScenesAreOpened.*
- bool **isLocked** [get, set]
Gets if this scene is locked.
- string **lockMessage** [get, set]
Gets the lock message for this scene.
- bool **isActive** [get]
Gets if this scene is currently active.
- bool **isOpenInHierarchy** [get]
Gets whatever the scene is open in the hierarchy, this is true if scene is currently loading, if scene is preloaded, if scene is fully open..
- [SceneState](#) **state** [get]

- bool **isOpen** [get]
Gets whatever the scene is open.
- bool **isPreloaded** [get]
Gets whatever the scene is preloaded.
- unityScene? **internalScene** [get, set]
Gets the unityScene that this scene is associated with.
- bool **isPersistent** [get]
Gets if this scene is opened as persistent.
- bool **isDefaultScene** [get]
Gets if this is a default ASM scene. These are located in '/AdvancedSceneManager/Defaults/'.
- bool **isDontDestroyOnLoad** [get]
Gets if this scene is the dontDestroyOnLoad scene.
- bool **isDynamic** [get]
Gets if this scene is dynamic, it is not persisted to disk.
- string **sceneLoader** [get, set]
Specifies what SceneManager.SceneLoader to use.

Properties inherited from **ASMMModel**

- string **id** [get]
Gets the id of this ASMMModel.
- new string **name** [get, protected set]

Additional Inherited Members

Static Protected Member Functions inherited from **ASMMModel**

- static T **CreateInternal**< T > (string **name**)
Creates a profile. Throws if name is invalid.

4.74.1 Detailed Description

Represents a scene.

4.74.2 Member Function Documentation

4.74.2.1 Close()

```
SceneOperation Close ( )
```

Closes the scene.

No effect if scene is already closed.

Implements [Scene.IMethods](#).

4.74.2.2 EvalOpenAsPersistent()

```
bool EvalOpenAsPersistent (
    SceneCollection parentCollection,
    SceneCollection collectionToOpen = null )
```

Gets whatever this scene will be opened as persistent.

Parameters

<i>parentCollection</i>	Specifies the parent collection that was opened before <i>finalCollection</i> .
<i>collectionToOpen</i>	Specifies the collection that will be opened, if you are not evaluating state after it would have opened, pass <code>null</code> . If multiple collections are opened in sequence, then pass the final one.

4.74.2.3 FindObject< T >()

```
T FindObject< T > ( )
```

Finds the object in the hierarchy of this Scene.

Only works if scene is loaded.

Type Constraints

T* : *Component

4.74.2.4 FindObjects< T >()

```
IEnumerable< T > FindObjects< T > ( )
```

Finds the objects in the hierarchy of this Scene.

Only works if scene is loaded.

Type Constraints

T* : *Component

4.74.2.5 FinishPreload()

```
SceneOperation FinishPreload ( )
```

Finishes preloading the scene, displaying it.

Scene must be preloaded beforehand.

Implements [Scene.IMethods](#).

4.74.2.6 GetRootGameObjects()

```
IEnumerable< GameObject > GetRootGameObjects ( )
```

Gets the root game objects in this Scene.

Only usable if scene is open.

4.74.2.7 Open()

```
SceneOperation Open ( )
```

Opens the scene.

No effect if scene is already open.

Implements [Scene.IMethods](#).

4.74.2.8 Preload()

```
SceneOperation Preload (
    Action onPreloaded = null )
```

Preloads the scene, to be displayed at a later time. See also: FinishPreload, DiscardPreload.

Scene must be closed beforehand.

Implements [Scene.IMethods](#).

4.74.2.9 SetSceneLoader< T >()

```
void SetSceneLoader< T > ( )
```

Specifies the scene loader to use for this scene.

If the specified scene loader is not registered when scene is opened, then ASM will fallback to other scene loaders, if any (normal ASM functionality is used if not).

Type Constraints

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

4.74.2.10 ToggleOpen()

```
SceneOperation ToggleOpen (
    bool? openState = null )
```

Toggles this scene open or closed.

Parameters

<i>openState</i>	Specifies whatever you have a preferred state to toggle to, this means scene will not be closed if <code>true</code> is passed. This can be used to scene collection is open, without having an explicit check beforehand. The inverse is also the case for <code>false</code> .
------------------	--

Implements [Scene.IMethods](#).

4.74.2.11 ToString()

```
override string ToString (
    int indent ) [virtual]
```

Parameters

<i>indent</i>	The indentation level, used for nested calls.
---------------	---

Parameters

<i>indent</i>	The indentation level, used for nested calls.
---------------	---

Reimplemented from [ASMMModel](#).

4.74.3 Property Documentation

4.74.3.1 internalScene

```
unityScene? internalScene [get], [set]
```

Gets the unityScene that this scene is associated with.

null if scene is not open.

4.74.3.2 isLoadingScreen

```
bool isLoadingScreen [get], [set]
```

Gets if this scene is a loading screen.

Automatically updated.

If this is `false` for an actual loading screen, please make sure scene contains a `Callbacks.LoadingScreen` script.

Scene might sometimes have to be re-saved for this flag to appear.

Might not be 100% reliable.

4.74.3.3 isSpecial

```
bool isSpecial [get]
```

Gets if this is a 'special' scene.

A scene is special if any of the following is `true`: `isSplashScreen`, `isLoadingScreen` or `isDontDestroyOnLoad`.

4.74.3.4 isSplashScreen

```
bool isSplashScreen [get], [set]
```

Gets if this scene is a splash screen.

Automatically updated.

If this is `false` for an actual splash screen screen, please make sure scene contains a `Callbacks.SplashScreen` script.

Scene might sometimes have to be re-saved for this flag to appear.

Might not be 100% reliable.

4.74.3.5 keepOpenWhenCollectionsClose

```
bool keepOpenWhenCollectionsClose [get], [set]
```

Specifies whatever this scene will remain open when collections close.

You'll have to close it manually, if needed.

4.74.3.6 keepOpenWhenNewCollectionWouldReopen

```
bool keepOpenWhenNewCollectionWouldReopen [get], [set]
```

Specifies whatever this will remain open when a newly opened collection would have reopened it.

You'll have to close it manually, if needed.

4.74.3.7 openOnPlayMode

```
bool openOnPlayMode [get], [set]
```

Specifies whatever this scene should be opened when entering playmode.

Only effective when scene added to `Profile.standaloneScenes`.

4.74.3.8 openOnStartup

```
bool openOnStartup [get], [set]
```

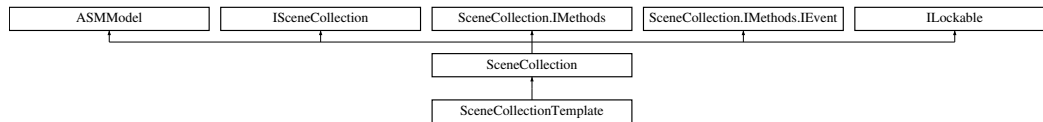
Specifies whatever this scene should be opened on startup.

Only effective when scene added to `Profile.standaloneScenes`.

4.75 SceneCollection

Represents a collection of scenes.

Inheritance diagram for SceneCollection:



Classes

- interface [IMethods](#)
- interface [IMethods_Target](#)

Public Member Functions

- override bool **IsMatch** (string q)
Gets if q matches ASMMModel.name.
- [SceneOperation Open](#) (bool openAll=false)
Opens this collection.
- [SceneOperation OpenAdditive](#) (bool openAll=false)
Opens this collection as additive.
- [SceneOperation ToggleOpen](#) (bool? openState=null, bool openAll=false)
Toggles this collection open or closed.
- [SceneOperation Close](#) ()
Closes this collection.
- void **_Open** (bool openAll=false)
- void **_OpenAdditive** (bool openAll=false)
- void **_ToggleOpenState** ()
- void **_ToggleOpen** (bool? openState=null)
- void **_Close** ()
- bool **FindProfile** (out [Profile](#) profile)
Find the Profile that this collection is associated with.
- [Profile FindProfile](#) ()
Find the Profile that this collection is associated with.
- T **UserData**< T > ()
Casts and returns userData as the specified type. Returns null if invalid type.
- bool **Contains** ([Scene](#) scene)
Gets if this collection contains scene .
- bool **AutomaticallyOpenScene** ([Scene](#) scene, bool? value=null)
Gets or sets whatever the scene should automatically open, when this collection is open. Default is true.
- override string [ToString](#) (int indent)

Public Member Functions inherited from [ASMMModel](#)

- virtual void [Save](#) ()
Saves the scriptable object after modifying.
- void [MarkAsDirty](#) ()
Mark scriptable object as dirty after modifying.
- override string [ToString](#) ()
Gets a text summarization of this model.

Static Public Member Functions

- static [SceneCollection](#) [Find](#) (string q, bool activeProfile=true)
Finds a collection based on its title or id.
- static bool [TryFind](#) (string q, out [SceneCollection](#) collection, bool activeProfile=true)
Finds a collection based on its title or id.

Static Public Attributes

- static readonly string [AssetSearchString](#) = "t:" + typeof([SceneCollection](#)).FullName
Gets 't:AdvancedSceneManager.Models.SceneCollection', the string to use in AssetDatabase.FindAssets(string).

Properties

- int [count](#) [get]
Gets the scene count of this collection.
- [Scene](#) [this\[int index\]](#) [get]
Gets the scene at the specified index.
- string [title](#) [get]
Gets the title of this collection.
- string [description](#) [get, set]
Gets the description of this collection.
- IEnumerable< string > [scenePaths](#) [get]
Gets the scenes of this collection.
- IEnumerable< [Scene](#) > [scenes](#) [get]
Gets the scenes of this collection.
- IEnumerable< [Scene](#) > [allScenes](#) [get]
Gets both scenes and loadingScreen.
- bool [hasScenes](#) [get]
Gets if this collection has any scenes.
- bool [isStartupCollection](#) [get]
Gets if this is a startup collection.
- ScriptableObject [userData](#) [get, set]
The extra data that is associated with this collection.
- bool [isIncluded](#) [get, set]
Gets whatever this collection should be included in build.
- [Scene](#) [loadingScreen](#) [get, set]
The loading screen that is associated with this collection.
- [Scene](#) [effectiveLoadingScreen](#) [get]
Gets effective loading screen depending on loadingScreenUsage.

- [LoadingScreenUsage](#) **loadingScreenUsage** [get, set]
Specifies what loading screen to use.
- [Scene](#) **activeScene** [get, set]
Specifies the scene that should be activated after collection is opened.
- [CollectionStartupOption](#) **startupOption** [get, set]
Specifies startup option.
- [CollectionLoadingThreadPriority](#) **loadingPriority** [get, set]
Specifies the thread priority to use when opening this collection.
- bool **openAsPersistent** [get, set]
Specifies whatever this collection should be opened as persistent.
- bool **openAsDisabled** [get, set]
Specifies whatever this collection should be opened as disabled.
- bool **unloadUnusedAssets** [get, set]
Calls Resources.UnloadUnusedAssets after collection is opened or closed.
- List< [Scene](#) > **scenesThatShouldNotAutomaticallyOpen** [get]
Specifies scenes that should not open automatically.
- [InputBinding](#) **binding** [get]
Specifies bindings for this scene.
- bool **isLocked** [get, set]
Gets if this collection is locked.
- string **lockMessage** [get, set]
Gets the lock message for this collection.
- bool **isOpen** [get]
Gets if this collection is open.
- bool **isOpenAdditive** [get]
Gets if this collection is opened additively.
- bool **isOpenNonAdditive** [get]
Gets if this collection is opened additively.

Properties inherited from [ASMMModel](#)

- string **id** [get]
Gets the id of this ASMMModel.
- new string **name** [get, protected set]

Properties inherited from [ISceneCollection](#)

- string **id** [get]
Gets the id of this collection.

Additional Inherited Members

Static Protected Member Functions inherited from [ASMMModel](#)

- static T **CreateInternal**< T > (string [name](#))
Creates a profile. Throws if name is invalid.

4.75.1 Detailed Description

Represents a collection of scenes.

Only one collection can be open at a time.

4.75.2 Member Function Documentation

4.75.2.1 Close()

```
SceneOperation Close ( )
```

Closes this collection.

No effect if collection is already closed. Note that "additive collections" are not actually opened, only its scenes are.

Implements [SceneCollection.IMethods](#).

4.75.2.2 Open()

```
SceneOperation Open (
    bool openAll = false )
```

Opens this collection.

Parameters

<i>openAll</i>	Specifies whatever scenes flagged to not open with collection, should.
----------------	--

Reopens all non-persistent scenes.

Implements [SceneCollection.IMethods](#).

4.75.2.3 OpenAdditive()

```
SceneOperation OpenAdditive (
    bool openAll = false )
```

Opens this collection as additive.

Parameters

<i>openAll</i>	Specifies whatever scenes flagged to not open with collection, should.
----------------	--

Additive collections are not "opened", all scenes within are merely opened like normal scenes. Mostly intended for convenience.

Implements [SceneCollection.IMethods](#).

4.75.2.4 ToggleOpen()

```
SceneOperation ToggleOpen (
    bool? openState = null,
    bool openAll = false )
```

Toggles this collection open or closed.

Parameters

<i>openState</i>	Specifies whatever you have a preferred state to toggle to, this means collection will not be closed if <code>true</code> is passed. This can be used to ensure collection is open, without having an explicit check beforehand. The inverse is also the case for <code>false</code> .
<i>openAll</i>	Specifies whatever scenes flagged to not open with collection, should.

Implements [SceneCollection.IMethods](#).

4.75.2.5 ToString()

```
override string ToString (
    int indent ) [virtual]
```

Parameters

<i>indent</i>	The indentation level, used for nested calls.
---------------	---

Parameters

<i>indent</i>	The indentation level, used for nested calls.
---------------	---

Reimplemented from [ASMMModel](#).

4.75.3 Property Documentation

4.75.3.1 allScenes

```
IEnumerable<Scene> allScenes [get]
```

Gets both scenes and loadingScreen.

`null` is filtered out.

4.75.3.2 isStartupCollection

```
bool isStartupCollection [get]
```

Gets if this is a startup collection.

Only available in editor.

4.75.3.3 userData

```
ScriptableObject userData [get], [set]
```

The extra data that is associated with this collection.

Use `UserData<T>` to cast it to the desired type.

4.76 SceneCollectionExtensions

Provides utility methods for working with SceneCollection.

Static Public Member Functions

- static int `IndexOf< T >` (this T collection, `Scene` scene)
Finds the index of scene .

4.76.1 Detailed Description

Provides utility methods for working with SceneCollection.

4.76.2 Member Function Documentation

4.76.2.1 IndexOf< T >()

```
static int IndexOf< T > (
    this T collection,
    Scene scene ) [static]
```

Finds the index of *scene* .

Returns -1 if it does not exist.

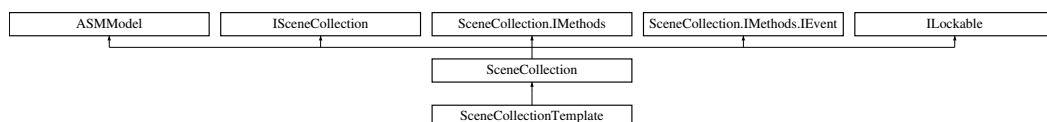
Type Constraints

T : ISceneCollection

4.77 SceneCollectionTemplate

Represents a template for a SceneCollection.

Inheritance diagram for SceneCollectionTemplate:



Properties

- new string **name** [get]

Properties inherited from [SceneCollection](#)

- int **count** [get]
Gets the scene count of this collection.
- [Scene](#) **this[int index]** [get]
Gets the scene at the specified index.
- string **title** [get]
Gets the title of this collection.
- string **description** [get, set]
Gets the description of this collection.
- IEnumerable< string > **scenePaths** [get]
Gets the scenes of this collection.
- IEnumerable< [Scene](#) > **scenes** [get]
Gets the scenes of this collection.
- IEnumerable< [Scene](#) > **allScenes** [get]
Gets both scenes and loadingScreen.
- bool **hasScenes** [get]
Gets if this collection has any scenes.
- bool **isStartupCollection** [get]
Gets if this is a startup collection.
- ScriptableObject **userData** [get, set]
The extra data that is associated with this collection.
- bool **isIncluded** [get, set]
Gets whatever this collection should be included in build.
- [Scene](#) **loadingScreen** [get, set]
The loading screen that is associated with this collection.
- [Scene](#) **effectiveLoadingScreen** [get]
Gets effective loading screen depending on loadingScreenUsage.
- [LoadingScreenUsage](#) **loadingScreenUsage** [get, set]
Specifies what loading screen to use.
- [Scene](#) **activeScene** [get, set]
Specifies the scene that should be activated after collection is opened.
- [CollectionStartupOption](#) **startupOption** [get, set]
Specifies startup option.
- [CollectionLoadingThreadPriority](#) **loadingPriority** [get, set]
Specifies the thread priority to use when opening this collection.
- bool **openAsPersistent** [get, set]
Specifies whatever this collection should be opened as persistent.
- bool **openAsDisabled** [get, set]
Specifies whatever this collection should be opened as disabled.
- bool **unloadUnusedAssets** [get, set]
Calls Resources.UnloadUnusedAssets after collection is opened or closed.
- List< [Scene](#) > **scenesThatShouldNotAutomaticallyOpen** [get]
Specifies scenes that should not open automatically.
- [InputBinding](#) **binding** [get]
Specifies bindings for this scene.

- bool **isLocked** [get, set]
Gets if this collection is locked.
- string **lockMessage** [get, set]
Gets the lock message for this collection.
- bool **isOpen** [get]
Gets if this collection is open.
- bool **isOpenAdditive** [get]
Gets if this collection is opened additively.
- bool **isOpenNonAdditive** [get]
Gets if this collection is opened additively.

Properties inherited from [ASMMModel](#)

- string **id** [get]
Gets the id of this ASMMModel.
- new string **name** [get, protected set]

Properties inherited from [ISceneCollection](#)

- string **id** [get]
Gets the id of this collection.

Additional Inherited Members

Public Member Functions inherited from [SceneCollection](#)

- override bool **IsMatch** (string q)
Gets if q matches ASMMModel.name.
- [SceneOperation](#) **Open** (bool openAll=false)
Opens this collection.
- [SceneOperation](#) **OpenAdditive** (bool openAll=false)
Opens this collection as additive.
- [SceneOperation](#) **ToggleOpen** (bool? openState=null, bool openAll=false)
Toggles this collection open or closed.
- [SceneOperation](#) **Close** ()
Closes this collection.
- void **_Open** (bool openAll=false)
- void **_OpenAdditive** (bool openAll=false)
- void **_ToggleOpenState** ()
- void **_ToggleOpen** (bool? openState=null)
- void **_Close** ()
- bool **FindProfile** (out [Profile](#) profile)
Find the Profile that this collection is associated with.
- [Profile](#) **FindProfile** ()
Find the Profile that this collection is associated with.
- T **UserData**< T > ()
Casts and returns userData as the specified type. Returns null if invalid type.
- bool **Contains** ([Scene](#) scene)
Gets if this collection contains scene .
- bool **AutomaticallyOpenScene** ([Scene](#) scene, bool? value=null)
Gets or sets whatever the scene should automatically open, when this collection is open. Default is true.
- override string **ToString** (int indent)

Public Member Functions inherited from [ASMMModel](#)

- virtual void [Save](#) ()
Saves the scriptable object after modifying.
- void [MarkAsDirty](#) ()
Mark scriptable object as dirty after modifying.
- override string [ToString](#) ()
Gets a text summarization of this model.

Static Public Member Functions inherited from [SceneCollection](#)

- static [SceneCollection](#) [Find](#) (string q, bool activeProfile=true)
Finds a collection based on its title or id.
- static bool [TryFind](#) (string q, out [SceneCollection](#) collection, bool activeProfile=true)
Finds a collection based on its title or id.

Static Public Attributes inherited from [SceneCollection](#)

- static readonly string [AssetSearchString](#) = "t:" + typeof([SceneCollection](#)).FullName
Gets 't:AdvancedSceneManager.Models.SceneCollection', the string to use in AssetDatabase.FindAssets(string).

Static Protected Member Functions inherited from [ASMMModel](#)

- static T [CreateInternal](#)< T > (string name)
Creates a profile. Throws if name is invalid.

4.77.1 Detailed Description

Represents a template for a SceneCollection.

4.78 SceneDataUtility

A utility for storing scene related data. Data can only be saved to disk in editor.

Static Public Member Functions

- static IEnumerable<(Scene scene, T data)> [Enumerate](#)< T > (string key)
Enumerates data using the specified key on all scenes that uses it.
- static T [Get](#)< T > (Scene scene, string key, T defaultValue=default)
Gets the value with the specified key, for the specified scene.
- static T [Get](#)< T > (string scene, string key, T defaultValue=default)
Gets the value with the specified key, for the specified scene.
- static string [GetRaw](#) (Scene scene, string key)
Gets the raw value with the specified key, for the specified scene.
- static void [Set](#)< T > (Scene scene, string key, T value)
Sets the value with the specified key, for the specified scene.
- static void [Set](#)< T > (string scene, string key, T value)
Sets the value with the specified key, for the specified scene.
- static void [SetRaw](#) (string scene, string key, string value)
Sets the value with the specified key, for the specified scene. This is the direct version, all values are stores as string, which means Get<T>(string, string, T) must convert value beforehand, this method doesn't.
- static void [Unset](#) (Scene scene, string key)
Unsets the value with the specified key, for the specified scene.

4.78.1 Detailed Description

A utility for storing scene related data. Data can only be saved to disk in editor.

4.78.2 Member Function Documentation

4.78.2.1 Set< T >() [1/2]

```
static void Set< T > (
    Scene scene,
    string key,
    T value ) [static]
```

Sets the value with the specified key, for the specified scene.

Changes will only be persisted in editor.

4.78.2.2 Set< T >() [2/2]

```
static void Set< T > (
    string scene,
    string key,
    T value ) [static]
```

Sets the value with the specified key, for the specified scene.

Changes will only be persisted in editor.

4.78.2.3 SetRaw()

```
static void SetRaw (
    string scene,
    string key,
    string value ) [static]
```

Sets the value with the specified key, for the specified scene. This is the direct version, all values are stores as string, which means Get<T>(string, string, T) must convert value beforehand, this method doesn't.

Changes will only be persisted in editor.

4.78.2.4 Unset()

```
static void Unset (
    Scene scene,
    string key ) [static]
```

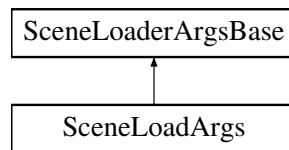
Unsets the value with the specified key, for the specified scene.

Changes will only be persisted in editor.

4.79 SceneLoadArgs

Specifies arguments for `SceneLoader.LoadScene(Models.Scene, SceneLoadArgs)`.

Inheritance diagram for `SceneLoadArgs`:



Public Member Functions

- void [SetCompleted](#) (UnityEngine.SceneManagement.Scene scene)
Notifies ASM that the load is done.
- void [SetCompleted](#) (UnityEngine.SceneManagement.Scene scene, Func< IEnumerator > preloadCallback)
- void **SetCompletedWithoutScene** ()
Sets this loader as complete even though no scene was loaded.
- bool **ChecksIncluded** (bool logError=true)
Checks if the scene is actually included in build.
- UnityEngine.SceneManagement.Scene [GetOpenedScene](#) ()
Gets the UnityEngine.SceneManagement.Scene that was opened by this override.

Properties

- bool **isPreload** [get, set]
Specifies if the scene should be preloaded.

Properties inherited from [SceneLoaderArgsBase](#)

- bool **isLoadingScreen** [get]
Gets if this scene is a loading screen.
- bool **isSplashScreen** [get]
Gets if this scene is a splash screen.

4.79.1 Detailed Description

Specifies arguments for `SceneLoader.LoadScene(Models.Scene, SceneLoadArgs)`.

4.79.2 Member Function Documentation

4.79.2.1 GetOpenedScene()

```
UnityEngine.SceneManagement.Scene GetOpenedScene ( )
```

Gets the `UnityEngine.SceneManagement.Scene` that was opened by this override.

Will return `default` if not found.

4.79.2.2 SetCompleted() [1/2]

```
void SetCompleted (
    UnityEngine::SceneManager::Scene scene )
```

Notifies ASM that the load is done.

Parameters

<i>scene</i>	The opened scene.
--------------	-------------------

4.79.2.3 SetCompleted() [2/2]

```
void SetCompleted (
    UnityEngine::SceneManagement::Scene scene,
    Func< IEnumerator > preloadCallback )
```

Parameters

<i>scene</i>	The opened scene.
<i>preloadCallback</i>	Specifies a callback that will be called when it is time to activate preloaded scene.

4.80 SceneLoader

Specifies a scene loader.

Inherited by RuntimeSceneLoader.

Public Member Functions

- virtual bool **CanOpen** ([Scene](#) scene)
Gets whatever this scene loader can open the scene.
- IEnumerator **LoadScene** ([Scene](#) scene, [SceneLoadArgs](#) e)
Loads the scene specified in e.scene.
- IEnumerator **UnloadScene** ([Scene](#) scene, [SceneUnloadArgs](#) e)
Unloads the scene specified in e.scene.

Static Public Member Functions

- static string **GetKey**< T > ()
Gets the key for the specified scene loader.
- static string **GetKey**< T > (T obj)
Gets the key for the specified scene loader.

Properties

- string **Key** [get]
Gets the key for this scene loader.
- virtual string **sceneToggleText** [get]
*Specifies the text to display on the toggle in scene popup. Only has an effect if isGlobal is *false*.*
- virtual Indicator **indicator** [get]
Specifies the indicator on scene fields for this scene loader.
- virtual bool **isGlobal** = true [get]
Specifies if this scene loader will can be applied to all scenes. Otherwise scenes will have to be explicitly flagged to open with this loader.
- virtual bool **activeOutsideOfPlayMode** [get]
Specifies whatever this loader will run outside of play mode or not.
- virtual bool **activeInPlayMode** = true [get]
Specifies whatever this loader will run in play mode or not.
- bool **canBeActivated** [get]
Gets whatever this loader may be activated in the current context.

4.80.1 Detailed Description

Specifies a scene loader.

4.80.2 Property Documentation

4.80.2.1 isGlobal

```
virtual bool isGlobal = true [get]
```

Specifies if this scene loader will can be applied to all scenes. Otherwise scenes will have to be explicitly flagged to open with this loader.

To flag a scene to be opened with this loader, the following two methods can be used:

If sceneToggleText is non-empty, a toggle will be displayed in scene popup.

Programmatically Scene.SetSceneLoader<T> can be used.

4.80.2.2 Key

```
string Key [get]
```

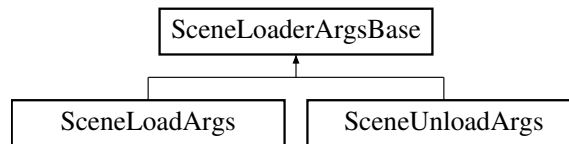
Gets the key for this scene loader.

This is equal to System.Type.FullName.

4.81 SceneLoaderArgsBase

Base class for SceneLoadArgs and SceneUnloadArgs.

Inheritance diagram for SceneLoaderArgsBase:



Properties

- bool **isLoadingScreen** [get]
Gets if this scene is a loading screen.
- bool **isSplashScreen** [get]
Gets if this scene is a splash screen.

4.81.1 Detailed Description

Base class for SceneLoadArgs and SceneUnloadArgs.

4.82 SceneManager

The central Advanced Scene Manager API. Provides access to the most important things in ASM.

Static Public Member Functions

- static void **OnInitialized** (Action action)
Call action when ASM has initialized.

Properties

- static **AssetsProxy assets** = new() [get]
- static IEnumerable< **Scene** > **openScenes** [get]
- static **SceneCollection openCollection** [get]
- static **Scene preloadedScene** [get]
- static **Runtime runtime** = new() [get]
- static **App app** = new **App**() [get]
- static **SettingsProxy settings** = new() [get]
- static **Profile profile** [get]
- static bool **isInitialized** [get]

Gets whatever ASM is initialized. Calling ASM methods may fail if `false`, this is due to ASMSettings singleton not being loaded yet.

4.82.1 Detailed Description

The central Advanced Scene Manager API. Provides access to the most important things in ASM.

4.82.2 Member Function Documentation

4.82.2.1 OnInitialized()

```
static void OnInitialized (
    Action action ) [static]
```

Call *action* when ASM has initialized.

Will call immediately if already initialized.

4.82.3 Property Documentation

4.82.3.1 isInitialized

```
bool isInitialized [static], [get]
```

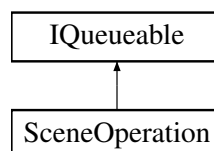
Gets whatever ASM is initialized. Calling ASM methods may fail if *false*, this is due to ASMSingleton not being loaded yet.

See also OnInitialized(Action).

4.83 SceneOperation

A scene operation is a queueable operation that can open or close scenes. See also: SceneAction.

Inheritance diagram for SceneOperation:



Public Member Functions

- **SceneOperation WithFriendlyText** (string text)
Specifies description for coroutine.
- void **Cancel** ()
Cancel this operation.
- **SceneOperation With** (SceneCollection collection, bool setActiveScene=false)
Specifies an associated collection.
- **SceneOperation Open** (SceneCollection collection, bool openAll=false)
- **SceneOperation Close** (SceneCollection collection)
- **SceneOperation Focus** (Scene scene)
Sets focus to the specified scene. Overrides selected scene in collections.
- **SceneOperation Open** (params Scene[] scenes)
Specifies the scenes to open.
- **SceneOperation Close** (params Scene[] scenes)
Specifies the scenes to close.
- **SceneOperation Callback** (params Callback[] callbacks)
Specifies user callbacks.
- **SceneOperation Preload** (Scene scene)
Specifies a scene to preload.
- **SceneOperation Open** (IEnumerable< Scene > scenes)
- **SceneOperation Close** (IEnumerable< Scene > scenes)
- **SceneOperation Callback** (IEnumerable< Callback > callbacks)
- **SceneOperation With** (Scene loadingScene)
Specifies loading screen to use.
- **SceneOperation With** (Action< LoadingScreen > loadingScreenCallback)
Specifies a callback when loading screen is opened, before LoadingScreen.OnOpen is called.
- **SceneOperation DisableLoadingScreen** (bool useLoadingScene=false)
Specifies whatever loading screen should be used.
- **SceneOperation EnableLoadingScreen** (bool useLoadingScene=true)
Specifies whatever loading screen should be used.
- **SceneOperation With** (ThreadPriority loadingPriority)
Specifies the ThreadPriority to use.
- **SceneOperation UnloadUsedAssets** ()
Specifies whatever Resources.UnloadUnusedAssets should be called at the end (before loading screen).
- **SceneOperation With** (Progress< float > customProgress)
Specifies custom progress that will be counted as part of progress.
- void **CloseAll** (params Scene[] except)
Closes all scenes prior to opening any scenes.
- void **CloseAllNonPersistent** (params Scene[] except)
Closes all non-persistent scenes prior to opening any scenes.
- **SceneOperation ReportProgress** (Action< float > progress)
Specifies a callback for when progress changes.

Static Public Member Functions

- static **SceneOperation Queue** ()
Queues a new scene operation.
- static **SceneOperation Start** ()
Starts a new scene operation, ignoring queue.
- static void **AddCallback** (Callback callback)
Adds the callback to every scene operation.
- static void **RemoveCallback** (Callback callback)
Removes a callback that was added to every scene operation.

Properties

- static **SceneOperation** **done** = new **SceneOperation**() [get]
Gets a SceneOperation that has already completed.
- string **description** [get, protected set]
Specifies description for coroutine.
- **SceneCollection** **collection** [get]
Specifies the collection that is being opened or closed.
- bool **setActiveCollectionScene** [get]
Specifies whatever active scene should be set when possible.
- **Scene** **focus** [get]
Sets focus to the specified scene. Overrides selected scene in collections.
- IEnumerable< **Scene** > **open** [get]
Gets the scenes specified to open.
- IEnumerable< **Scene** > **close** [get]
Gets the scenes specified to close.
- IEnumerable< **Callback** > **callbacks** [get]
Gets the user defined callbacks.
- **Scene** **preload** [get]
Gets the scene specified to preload.
- **Scene** **loadingScene** [get]
Gets the specified loading screen.
- Action< **LoadingScreen** > **loadingScreenCallback** [get]
Gets the specified loading screen callback.
- bool **useLoadingScene** [get]
Gets whatever a loading screen should be used.
- ThreadPriority? **loadingPriority** [get]
Gets the specified ThreadPriority to be used.
- bool? **unloadUnusedAssets** [get]
Gets whatever Resources.UnloadUnusedAssets should be called at the end (before loading screen).
- IEnumerable< **Scene** > **closedScenes** [get]
Gets the scenes that was closed during this operation.
- IEnumerable< **Scene** > **openedScenes** [get]
Gets the scenes that was opened during this operation.
- bool **isLoadingScreen** [get, set]
Specifies whatever this scene operation was started by ASM to open a loading screen.
- override bool **keepWaiting** [get]
Inherited from CustomYieldInstruction. Tells unity whatever the operation is done or not.
- **Phase** **phase** [get]
The phase the this scene operation is currently in.
- bool **wasCancelled** [get]
Gets if this scene operation is cancelled.
- Progress< float > **customProgress** [get]
Gets custom progress, if there is any. Will be counted as part of progress.
- **LoadingScreen** **openedLoadingScreen** [get]
Gets the loading screen that was opened by this operation.
- float **progress** [get]
Gets the current progress.

Events

- static OnBeforeStart **beforeStart**
Occurs before operation has started working.

4.83.1 Detailed Description

A scene operation is a queueable operation that can open or close scenes. See also: SceneAction.

4.83.2 Member Function Documentation

4.83.2.1 Cancel()

```
void Cancel ( )
```

Cancel this operation.

Note that the operation might not be cancelled immediately, if user defined callbacks are currently running.

4.83.2.2 Close()

```
SceneOperation Close (
    params Scene[ ] scenes )
```

Specifies the scenes to close.

Can be called multiple times to add more scenes.

4.83.2.3 Focus()

```
SceneOperation Focus (
    Scene scene )
```

Sets focus to the specified scene. Overrides selected scene in collections.

No effect if preloading.

4.83.2.4 Open()

```
SceneOperation Open (
    params Scene[ ] scenes )
```

Specifies the scenes to open.

Can be called multiple times to add more scenes.

4.83.2.5 Preload()

```
SceneOperation Preload (
    Scene scene )
```

Specifies a scene to preload.

A scene specified to preload cannot also be added to open or close lists.

4.83.2.6 ReportProgress()

```
SceneOperation ReportProgress (
    Action< float > progress )
```

Specifies a callback for when progress changes.

Only one callback can be registered, previous one will be replaced by *progress* .

4.83.2.7 With()

```
SceneOperation With (
    Scene loadingScene )
```

Specifies loading screen to use.

Has no effect if useLoadingScene is *false*.

4.83.3 Property Documentation

4.83.3.1 close

```
IEnumerable<Scene> close [get]
```

Gets the scenes specified to close.

List will change depending on when its called (i.e. only open scenes can be closed).

4.83.3.2 focus

```
Scene focus [get]
```

Sets focus to the specified scene. Overrides selected scene in collections.

No effect if preloading.

4.83.3.3 open

```
IEnumerable<Scene> open [get]
```

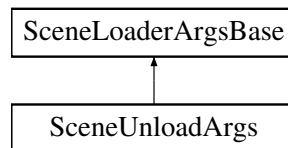
Gets the scenes specified to open.

List will change depending on when its called (i.e. only closed scenes can be opened).

4.84 SceneUnloadArgs

Specifies arguments for `SceneLoader.UnloadScene(Models.Scene, SceneUnloadArgs)`.

Inheritance diagram for SceneUnloadArgs:



Public Member Functions

- void **SetCompleted** ()
Notifies ASM that the unload is done.

Additional Inherited Members

Properties inherited from SceneLoaderArgsBase

- bool **isLoadingScreen** [get]
Gets if this scene is a loading screen.
- bool **isSplashScreen** [get]
Gets if this scene is a splash screen.

4.84.1 Detailed Description

Specifies arguments for `SceneLoader.UnloadScene(Models.Scene, SceneUnloadArgs)`.

4.85 SceneUtility

An utility class to perform actions on scenes.

Static Public Member Functions

- static IEnumerable< scene > **GetAllOpenUnityScenes** ()
Get all open unity scenes.
- static bool **IsIncluded** (Scene scene)
Gets if the scene is included in build.
- static void **Move** (this GameObject obj, Scene scene)
- static void **Move** (this GameObject obj, scene scene)
- static Scene **CreateDynamic** (string name, UnityEngine.SceneManagement.LocalPhysicsMode localPhysicsMode=UnityEngine.SceneManagement.LocalPhysicsMode.None)
Creates a scene at runtime, that is not saved to disk.
- static bool **FindCollection** (this Scene scene, out SceneCollection collection)
- static SceneCollection **FindCollection** (this Scene scene)
Attempts to find best match for collection.
- static IEnumerable< SceneCollection > **FindCollections** (this Scene scene, bool allProfiles=false)
Finds which collections that this scene is a part of.
- static IEnumerable< SceneCollection > **FindCollections** (this Scene scene, Profile profile)
Finds which collections that this scene is a part of.
- static IEnumerable< Scene > **FindOpen** (string q)
Find open scenes by name or path.
- static Scene **Find** (string q)
Find scenes by name or path, in the specified collection or profile, if defined.
- static IEnumerable< Scene > **FindOpen** (Func< Scene, bool > predicate)
Find open scenes by predicate.
- static IEnumerable< Scene > **Find** (Func< Scene, bool > predicate)
Find scenes by predicate, in the specified collection or profile, if defined.
- static bool **ASMScene** (this Component component, out Scene scene)
- static Scene **ASMScene** (this GameObject gameObject, out Scene scene)
- static Scene **ASMScene** (this Component component)
- static Scene **ASMScene** (this GameObject gameObject)
- static bool **ASMScene** (this scene thisScene, out Scene scene)
- static Scene **ASMScene** (this scene scene)
Gets the associated ASM Scene.
- static IEnumerable< Scene > **EvaluateFinalSceneList** (Profile profile, App.Props props)
Evaluate the final scene list after startup.
- static IEnumerable< Scene > **EvaluateFinalSceneList** (IEnumerable< SceneCollection > collections)
Evaluate the final scene list after opening a sequence of collections.
- static void **SetEnabled** (this Scene scene, bool isEnabled)
Sets all root objects as enabled / disabled.
- static void **Enable** (this Scene scene)
Sets all root objects as enabled.
- static void **Disable** (this Scene scene)
Sets all root objects as disabled.

Properties

- static bool **isStartupScene** [get]
Gets if current, and only, scene is the startup scene.
- static scene **dontDestroyOnLoadScene** [get]
Gets the dontDestroyOnLoad scene. Returns null if not open.
- static bool **hasAnyScenes** [get]
Gets if there are any scenes open that are not dynamically created, and not yet saved to disk.
- static int **unitySceneCount** [get]

4.85.1 Detailed Description

An utility class to perform actions on scenes.

4.85.2 Member Function Documentation

4.85.2.1 CreateDynamic()

```
static Scene CreateDynamic (
    string name,
    UnityEngine::SceneManagement::LocalPhysicsMode localPhysicsMode = UnityEngine::SceneManagement::LocalPhysicsMode::None ) [static]
```

Creates a scene at runtime, that is not saved to disk.

Returns `null` if scene could not be created.

4.85.2.2 Disable()

```
static void Disable (
    this Scene scene ) [static]
```

Sets all root objects as disabled.

Only has an effect if scene is open.

4.85.2.3 Enable()

```
static void Enable (
    this Scene scene ) [static]
```

Sets all root objects as enabled.

Only has an effect if scene is open.

4.85.2.4 EvaluateFinalSceneList() [1/2]

```
static IEnumerable< Scene > EvaluateFinalSceneList (
    IEnumerable< SceneCollection > collections ) [static]
```

Evaluate the final scene list after opening a sequence of collections.

Parameters

<i>collections</i>	The sequence of collections that would be opened.
--------------------	---

4.85.2.5 EvaluateFinalSceneList() [2/2]

```
static IEnumerable< Scene > EvaluateFinalSceneList (
    Profile profile,
    App::Props props ) [static]
```

Evaluate the final scene list after startup.

Parameters

<i>profile</i>	The profile that would be used to run startup process with.
<i>props</i>	The startup props that would be used to run process with.

4.85.2.6 FindCollection()

```
static SceneCollection FindCollection (
    this Scene scene ) [static]
```

Attempts to find best match for collection.

Only checks current profile.

4.85.2.7 SetEnabled()

```
static void SetEnabled (
    this Scene scene,
    bool isEnabled ) [static]
```

Sets all root objects as enabled / disabled.

Only has an effect if scene is open.

4.86 ScriptableObjectUtility

Contains utility methods for ScriptableObject.

Static Public Member Functions

- static void [Save](#) (this ScriptableObject obj)
Saves the ScriptableObject.

4.86.1 Detailed Description

Contains utility methods for ScriptableObject.

4.86.2 Member Function Documentation

4.86.2.1 Save()

```
static void Save (
    this ScriptableObject obj ) [static]
```

Saves the ScriptableObject.

Safe to call from outside editor, but has no effect.

4.87 SerializableDictionary< TKey, TValue >

A serializable dictionary.

Inherits Dictionary< TKey, TValue >, and ISerializationCallbackReceiver.

4.87.1 Detailed Description

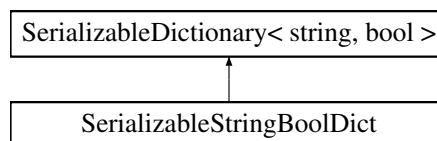
A serializable dictionary.

Older unity versions might need a wrapper class, since they won't support serializing generic types. Don't forget SerializableAttribute on wrapper!

4.88 SerializableStringBoolDict

A serializable dictionary of string and bool.

Inheritance diagram for SerializableStringBoolDict:



4.88.1 Detailed Description

A serializable dictionary of string and bool.

4.89 SettingsProxy

Provides access to ASM settings.

Properties

- [ASMSettings project](#) [get]
The project-wide ASM settings.
- [Profile profile](#) [get]
The current ASM profile.

4.89.1 Detailed Description

Provides access to ASM settings.

4.89.2 Property Documentation

4.89.2.1 profile

[Profile profile](#) [get]

The current ASM profile.

Could be `null`.

4.90 SpamCheck

Provides an easy way to check for spamming.

Public Member Functions

- `bool IsSpam ()`
Gets if an action was executed not long enough ago.
- `void MarkAsExecuted ()`
Marks this spam check as executed, disallowing any actions until cooldown has run out.
- `void Execute (Action action)`
Runs action if allowed.

Properties

- `static SpamCheck Global = new SpamCheck()` [get]
Gets the global spam check.
- `bool isEnabled` [get, set]
Gets or sets if this SpamCheck is enabled.
- `float executeCooldown` [get, set]
Gets or sets the cooldown.
- `float lastExecute` [get]
Gets the time an action was executed last.
- `float timeSinceLastExecute` [get]
Gets the time an action was executed last.

4.90.1 Detailed Description

Provides an easy way to check for spamming.

4.90.2 Property Documentation

4.90.2.1 Global

```
SpamCheck Global = new SpamCheck() [static], [get]
```

Gets the global spam check.

Don't worry about conflicts with ASM stuff, we use a separate one.

4.90.2.2 isEnabled

```
bool isEnabled [get], [set]
```

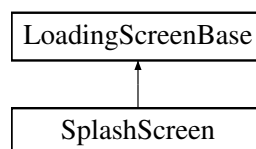
Gets or sets if this SpamCheck is enabled.

When disabled actions will run without checking whatever it is a spam call.

4.91 SplashScreen

A class that contains callbacks for splash screens.

Inheritance diagram for SplashScreen:



Public Member Functions

- IEnumerator [DisplaySplashScreen](#) ()
Called when scene manager is ready to display the splash screen.
- override IEnumerator **OnOpen** ()
Called when the splash screen is opened.
- override IEnumerator [OnClose](#) ()
Called when the loading screen is about to close.

Public Member Functions inherited from [LoadingScreenBase](#)

- IEnumerator **OnOpen** ()
Called when the loading screen is opened.
- IEnumerator **OnClose** ()
Called when the loading screen is about to close.

Additional Inherited Members

Public Attributes inherited from [LoadingScreenBase](#)

- Action< [LoadingScreenBase](#) > **onDestroy**
Occurs when loading screen is destroyed.
- Canvas [canvas](#)

4.91.1 Detailed Description

A class that contains callbacks for splash screens.

SplashScreen and LoadingScreen cannot coexist within the same scene.

4.91.2 Member Function Documentation

4.91.2.1 DisplaySplashScreen()

```
IEnumerator DisplaySplashScreen ( ) [abstract]
```

Called when scene manager is ready to display the splash screen.

Example: yielding new WaitForSeconds(5) will show the splash screen for 5 seconds.

4.91.2.2 OnClose()

```
override IEnumerator OnClose ( )
```

Called when the loading screen is about to close.

Calls DisplaySplashScreen, so make sure to call it manually or call base if overridden.

4.92 StandaloneCollection

Represents a collection of standalone scenes. These scenes are guaranteed to be included in build (if the associated Profile is active).

Inherits ISceneCollection.IEditable.

Properties

- string **id** [get]
Gets the id of this collection.
- IEnumerable< [Scene](#) > **scenes** [get]
Gets the scenes of this collection.
- IEnumerable< string > **scenePaths** [get]
Gets the scenes of this collection.
- string **title** [get]
Gets the title of this collection.
- string **description** [get]
Gets the description of this collection.
- IEnumerable< [Scene](#) > **startupScenes** [get]
Gets all scenes that will be opened on startup.
- int **count** [get]
Gets the scene count of this collection.
- [Scene](#) **this[int index]** [get]
Gets the scene at the specified index.

4.92.1 Detailed Description

Represents a collection of standalone scenes. These scenes are guaranteed to be included in build (if the associated Profile is active).

Usage: Profile.standaloneScenes.

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