# Scene Toolkit v 1.0

### AudioSourceFadeEventHandler

class in CG.SceneToolkit / Inherits from: MonoBehaviour

### Description

This Component is used to fade In/Out a single AudioSource during a scene load / Change.

# LoadingSceneHandler

class in CG.SceneToolkit / Inherits from: MonoBehaviour

### Description

This Component is used to customize the look and feel of the loading scene graphics. Which includes a background image and some text that can be shown during the loading process, a progress bar and a percentage of the progress can also be shown and customized here. Go to the 'loading Scene' to do so.

# **ISceneActivationKey**

interface in CG.SceneToolkit

# **Description**

This interface enables manual activation of the loaded scene based on a key press.

# **Properties**

```
Name string Name { get; }

Name of The Key that activates the scene
```

```
IsPressed | bool IsPressed { get; }

Whether the key is being pressed or not
```

# ISceneChangeTrigger

interface in CG.SceneToolkit

### Description

This interface enables Used as a manual trigger for changing the scene.

## **Properties**

CanTrigger	<pre>public bool CanTrigger { get; }</pre>
Whether or	not to trigger the scene change.

# SceneLoadManager

class in CG.SceneToolkit / Inherits from: MonoBehaviour

## **Description**

This is Main Singleton Component that Handles The Actual scene loading. This is automatically loaded from the resources folder. no need to attach this to a gameobject

### Static Variables

ActiveSceneSettings	public SceneSettings ActiveSceneSettings
It is automatically A 'SceneSetings' ob	set when the load method is called. ject is passed.

SceneToLoad

public static string SceneToLoad

The final scene that is to be loaded.

OnAudioFadeEvent | public static event System.Action<bool>

This Event is called when The Current scene is Fading In/Out The bool parameter passed here determines a fade in or out.

false = Fade Out true = Fade In

SceneActivationKey

public static ISceneActivationKey SceneActivationKey

Used for manually activating the loaded scene based on a key press.

### **Static Methods**

Load

public static void Load(string sceneToLoad, SceneSettings settings, ISceneActivationKey activationKey = null)

Loads The scene given as a string value, Scene Setting object is used to customize the scene transition and loading scene customization.

"sceneToLoad" => The name of the Scene That is to be loaded, must already be added to build settings.

settings" => A Scene Settings Scriptable object asset to handle the configuraion of scene load and transition.

# TriggerBase

class in CG.SceneToolkit / Inherits from: MonoBehaviour

### Description

Base class that handles triggering of scene changes. This is an abstract class, which is used by both 'SceneSwitchTrigger2D' and 'SceneSwitchTrigger3D'.

Inheriting from this class is Not Recommended.

### **Properties**

TriggerSettings public SceneChangeTriggerSettings	TriggerSettings
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Contains the settings that handle a scene change trigger. Modified in the inspector.

# SceneChangeTriggerSettings

class in CG.SceneToolkit

## **Description**

A serializable Class that holds all the configuration values for Scene transition and audio fade settings.

# **Properties**

SceneToLoad	public string SceneToLoad
Name of the scene this trigger will load, scene must already be added to build settings.	

Mode public DetectionMode Mode	Mode	public DetectionMode Mode
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Determines whether to use a collider based approach or simple physics overlap.

SwitchingDelay | public float SwitchingDelay

The delay/wait time before switching the scene.

### TriggerMode

public TriggerType TriggerMode

Determies what type of trigger is used. Enter = OnTriggerEnter, Stay = OnTriggerStay, OnKeyPress = Manually Triggered when a key is pressed, uses ISceneChangeTrigger interface

LayersToDetect | public LayerMask LayersToDetect

Layer/Layers that this trigger will detect

AutoActivateScene public bool AutoActivateScene

Automatically activate the scene when loading is complete

# SceneChangeTriggerEvent

public SceneChangeEvent SceneChangeTriggerEvent

In case of manual scene activation this unity event is used to load and activate the required scene

# SceneSwitchTrigger2D

class in CG.SceneToolkit / Inherits from: TriggerBase

### Description

This Component is used to create a trigger zone/area, which upon activating/interacted can be. Used to trigger a scene change. This is used for 2D objects and collider

# SceneSwitchTrigger3D

class in CG.SceneToolkit / Inherits from: TriggerBase

### Description

This Component is used to create a trigger zone/area, which upon activating/interacted can be used to trigger a scene change. This is used for 3D objects and collider.

# SceneSettings

class in CG.SceneToolkit / Inherits from: ScriptableObject

# Description

Used as a Scriptable Object Data Container. It contains all the settings needed to configure, Scene Transition, Audio Fade and Loading Scene Customization.

# **Properties**

InfoMessages public string[] InfoMessages
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An array of messages to be used as the loading scene info message, when added multiples a random one is selected at each load

InfoMessageDelay | public float InfoMessageDelay

Time delay while cycling between each info messages

BackgroundImages | public Sprite[] BackgroundImages

An array of images to be used as the loading scene background, when added multiple image a random one is selected at each load.

ShowLoadingProgress public bool ShowLoadingProgress

Show/Hide a Loading progress bar on the loading screen during a scene load.

ShowLoadingPercentage public bool ShowLoadingPercentage

Show/Hide Loading completion percentage value on the loading screen during a scene load.

TransitionSettings

public SceneTransitionSettings **TransitionSettings** 

A serializable class containing the settings related to the transitions from one scene to another

### RandomInfoMessage

public string RandomInfoMessage

Get a random Info message if more than one message is available, otherwise get the first one.

RandomBackgroundImage | public Sprite RandomBackgroundImage

Get a random image. if more than one message is available, otherwise get the first one.

# SceneTransitionSettings

class in CG.SceneToolkit

### Description

This serializable Class contains all the values releated to Transition FX and Audio Fading, When Changing Scene

# **Properties**

TransitionSpeed	public float TransitionSpeed
TransitionSpeed	public

The Speed of the Scene transition

EnableTransition | public bool EnableTransition

Enable or Disable Scene Transition

TransitionMaterial public Material TransitionMaterial

The Transition Material, Added as a renderer feature. It is Loaded automatically from the 'Resources' folder.

TransitionType

public TransitionType TransitionType

Fade or a pattern to be used.

Pattern

public Texture2D Pattern

A Grayscale Image, used as transition pattern.

AudioMixer

public AudioMixer AudioMixer

The main Audio mixer in use

**EnableAudioFade** 

public bool EnableAudioFade

Enable or Disable Audio Fade during Transition.

ExposedParameter	public string ExposedParameter
Name of the exposed Match Exactly.	parameter set inside the audio mixer, Must

# **Public Methods**

StartFade	<pre>public IEnumerator StartFade(float targetVolume)</pre>
targetVolume passed	In/Out of audio volume, based on the volume in decible unit