Impossible Circle - Round The Balls DOCUMENTATION

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

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2 **Hierarchical Index**

Chapter 2

Class Index

2.1 Class List

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

ButtonLeaderboard	
Class attached to the leaderboard button. Works only on mobile (iOS & Android), with Very Simple Leaderboard: http://u3d.as/qxf	5
CameraManager	Ŭ
Class in charge to the camera animation: zoom in at start, shake when player jumps, and follow the player during the game	6
CanvasManager	U
Class in charge to handle UI elements.	7
Circle	,
Class in charge to draw the circles.	7
Collision Detection	
Class attached to the sprite child of the Player GameOBject, in charge to listen if the player collide with an obstacle	
GameManager	
Class in charge of the logic of the game. This class will restart the level at game over, handle and save the point, and call the Ads if you import the VERY SIMPLE ADS asset available here: http://u3d.as/oWD	
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Class in charge to listen the touch or click, and send event to subscribers	10
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Class in charge to desactivate the particles.	12
Player	
Class attached to the Player GameObject in the hierarchy. In charge to handle the Player the player controls, detect touch and collision.	
Singleton< T >	
Be aware this will not prevent a non singleton constructor such as $T \text{ myT} = \text{new } T()$; To prevent that, add protected $T() \in \{\}$ to your singleton class	
SoundManager	
Class in charge to play sound in the game.	15
SpawnManager	
Class in charge to pooled the particle to not have to instantiate and destroy them each time the player make a point (about 200 particles each time the player earns 1 point)	
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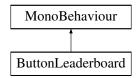
Chapter 3

Class Documentation

3.1 ButtonLeaderboard Class Reference

Class attached to the leaderboard button. Works only on mobile (iOS & Android), with Very Simple Leaderboard : http://u3d.as/qxf

Inheritance diagram for ButtonLeaderboard:



Public Member Functions

void OnClickedOpenLeaderboard ()

If player clics on the leaderbord button, we call this method. Works only on mobile (iOS & Android) if using Very Simple Leaderboard by App Advisory: http://u3d.as/qxf

Private Member Functions

· void Awake ()

3.1.1 Detailed Description

Class attached to the leaderboard button. Works only on mobile (iOS & Android), with Very Simple Leaderboard : http://u3d.as/qxf

3.1.2 Member Function Documentation

3.1.2.1 void ButtonLeaderboard.OnClickedOpenLeaderboard() [inline]

If player clics on the leaderbord button, we call this method. Works only on mobile (iOS & Android) if using Very Simple Leaderboard by App Advisory: http://u3d.as/qxf

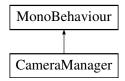
The documentation for this class was generated from the following file:

Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible ←
 Circle_RoudTheBalls/Scripts/ButtonLeaderboard.cs

3.2 CameraManager Class Reference

Class in charge to the camera animation: zoom in at start, shake when player jumps, and follow the player during the game

Inheritance diagram for CameraManager:



Public Member Functions

- · void DOStart (Action callback)
- · void DOShake ()

Public Attributes

· Transform toFollow

Private Member Functions

- · void Awake ()
- IEnumerator Start ()
- IEnumerator **DOFollow** ()

Private Attributes

- · Camera cam
- GameManager gameManager
- float orthoSize = 2.3f

3.2.1 Detailed Description

Class in charge to the camera animation: zoom in at start, shake when player jumps, and follow the player during the game

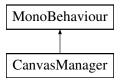
The documentation for this class was generated from the following file:

Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible
 Circle_RoudTheBalls/Scripts/CameraManager.cs

3.3 CanvasManager Class Reference

Class in charge to handle UI elements.

Inheritance diagram for CanvasManager:



Public Member Functions

- · void OnStartGame (Action complete)
- · void OnGameOver (Action complete)
- void OnClickedStart ()

Public Attributes

- CanvasGroup canvasGroupStart
- CanvasGroup canvasGroupInGame
- Text bestScoreText
- Text lastScoreText

Private Member Functions

- · void Awake ()
- void Start ()
- void UpdateText ()

3.3.1 Detailed Description

Class in charge to handle UI elements.

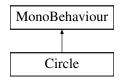
The documentation for this class was generated from the following file:

Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible ←
 Circle_RoudTheBalls/Scripts/CanvasManager.cs

3.4 Circle Class Reference

Class in charge to draw the circles.

Inheritance diagram for Circle:



Public Member Functions

- · void SetRadius (float radius)
- float GetRadius ()
- float GetWidth ()
- void DOParticle ()
- void DOStart ()
- · void CreatePoints ()

Private Member Functions

· void Awake ()

Private Attributes

- GameManager gameManager
- int segments = 200
- · LineRenderer line
- · float radius
- float width = 0.3f
- Transform playerSpriteTransform

3.4.1 Detailed Description

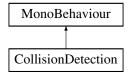
Class in charge to draw the circles.

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

• /Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible ← Circle_RoudTheBalls/Scripts/Circle.cs

3.5 Collision Detection Class Reference

Class attached to the sprite child of the Player GameOBject, in charge to listen if the player collide with an obstacle Inheritance diagram for CollisionDetection:



Public Member Functions

• void OnTriggerEnter2D (Collider2D other)

Listen the collision. If collision: all the Player method DOOnTriggerEnter2D

3.5.1 Detailed Description

Class attached to the sprite child of the Player GameOBject, in charge to listen if the player collide with an obstacle

3.5.2 Member Function Documentation

3.5.2.1 void CollisionDetection.OnTriggerEnter2D (Collider2D other) [inline]

Listen the collision. If collision: all the Player method DOOnTriggerEnter2D

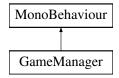
The documentation for this class was generated from the following file:

• /Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible ← Circle RoudTheBalls/Scripts/CollisionDetection.cs

3.6 GameManager Class Reference

Class in charge of the logic of the game. This class will restart the level at game over, handle and save the point, and call the Ads if you import the VERY SIMPLE ADS asset available here: http://u3d.as/oWD

Inheritance diagram for GameManager:



Public Member Functions

- void Start ()
- void Add1Point ()
- void InstantiateCircle ()
- void **DOStart** ()
- void ShowAds ()
- · void GameOver ()

Public Attributes

- string VerySimpleAdsURL = "http://u3d.as/oWD"
- Color backgroundColor = Color.white
- Color circleColor = Color.black
- Color playerColor = Color.white
- bool activateCameraShake = false
- int numberOfPlayToShowInterstitial = 5
- bool isStarted = false
- bool isGameOver = false
- Text pointText
- · GameObject circlePrefab
- · GameObject particle
- · GameObject obstaclePrefab
- · float radiusBorder

Properties

• Color hazardColor [get]

Private Member Functions

- · void Awake ()
- void Init ()
- IEnumerator ObstacleInstantiator ()
- void DOInstantiateObstacle ()
- void SetNewGame ()
- void ReportScoreToLeaderboard (int p)

If using Very Simple Leaderboard by App Advisory, report the score: http://u3d.as/qxf

Private Attributes

- · CanvasScaler canvasScaler
- int **point** = 0
- Player player
- SoundManager soundManager

3.6.1 Detailed Description

Class in charge of the logic of the game. This class will restart the level at game over, handle and save the point, and call the Ads if you import the VERY SIMPLE ADS asset available here: http://u3d.as/oWD

3.6.2 Member Function Documentation

3.6.2.1 void GameManager.ReportScoreToLeaderboard (int *p* **)** [inline], [private]

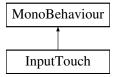
If using Very Simple Leaderboard by App Advisory, report the score: http://u3d.as/qxf

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

Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible
 — Circle_RoudTheBalls/Scripts/GameManager.cs

3.7 InputTouch Class Reference

Class in charge to listen the touch or click, and send event to subscribers Inheritance diagram for InputTouch:



Public Member Functions

delegate void OnTouchDown (TouchDirection td)

Delegate to listen the touch down or click down, and send event to subscribers

delegate void OnTouchUp ()

Delegate to listen the touch up or click up, and send event to subscribers

Events

- static OnTouchDown OnTouchedDown
- static OnTouchUp OnTouchedUp

Private Member Functions

• void Update ()

Listening for inputs

3.7.1 Detailed Description

Class in charge to listen the touch or click, and send event to subscribers

3.7.2 Member Function Documentation

3.7.2.1 delegate void InputTouch.OnTouchDown (TouchDirection td)

Delegate to listen the touch down or click down, and send event to subscribers

3.7.2.2 delegate void InputTouch.OnTouchUp ()

Delegate to listen the touch up or click up, and send event to subscribers

3.7.2.3 void InputTouch.Update() [inline], [private]

Listening for inputs

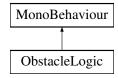
The documentation for this class was generated from the following file:

Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible
 Circle_RoudTheBalls/Scripts/InputTouch.cs

3.8 ObstacleLogic Class Reference

Attached to ObstaclePrefab prefab in the prefab folder. In charge to initialize the spike and anim them in, and destroy them if ot of screen.

Inheritance diagram for ObstacleLogic:



Public Member Functions

- void Init (float rot, bool isDown)
- void DOPosition (Vector3 rotation, bool isDown, Action callback)

Public Attributes

- · GameObject obstacleSprite
- bool isVisible = false

Private Member Functions

- · void Awake ()
- · IEnumerator DOStart (float rot, bool isDown)
- IEnumerator CheckVisibility ()

Private Attributes

- · SpriteRenderer sr
- GameManager gameManager
- float decal = -1f

3.8.1 Detailed Description

Attached to ObstaclePrefab prefab in the prefab folder. In charge to initialize the spike and anim them in, and destroy them if ot of screen.

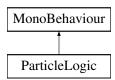
The documentation for this class was generated from the following file:

Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible ←
 Circle RoudTheBalls/Scripts/ObstacleLogic.cs

3.9 ParticleLogic Class Reference

Class in charge to desactivate the particles.

Inheritance diagram for ParticleLogic:



Private Member Functions

- void OnEnable ()
- void OnDisable ()
- IEnumerator waitForDesactivate ()

3.9.1 Detailed Description

Class in charge to desactivate the particles.

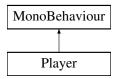
The documentation for this class was generated from the following file:

Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible
 Circle_RoudTheBalls/Scripts/ParticleLogic.cs

3.10 Player Class Reference

Class attached to the Player GameObject in the hierarchy. In charge to handle the Player the player controls, detect touch and collision.

Inheritance diagram for Player:



Public Member Functions

- · float GetRotation ()
- void **DOPosition** (float x, float y)
- · void DOStart ()
- void ActivateTouchControl ()
- void DesactivateTouchControl ()
- void AnimPlayer (float targetPos)
- IEnumerator _AnimPlayer (float targetPos)
- · void DOOnTriggerEnter2D (Collider2D other)

Public Attributes

- Transform playerSprite
- SpriteRenderer sr
- Vector3 defaultPosition = Vector3.zero

Properties

• float jumpWidth [get]

Private Member Functions

- void Awake ()
- void Start ()
- void OnTouchDown (TouchDirection td)
- void OnCompleteJump ()

Private Attributes

GameManager gameManager

3.10.1 Detailed Description

Class attached to the Player GameObject in the hierarchy. In charge to handle the Player the player controls, detect touch and collision.

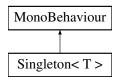
The documentation for this class was generated from the following file:

Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible
 — Circle_RoudTheBalls/Scripts/Player.cs

3.11 Singleton < T > Class Template Reference

Be aware this will not prevent a non singleton constructor such as T myT = new T (); To prevent that, add protected T () {} to your singleton class.

Inheritance diagram for Singleton< T >:



Public Member Functions

void OnDestroy ()

When Unity quits, it destroys objects in a random order. In principle, a Singleton is only destroyed when application quits. If any script calls Instance after it have been destroyed, it will create a buggy ghost object that will stay on the Editor scene even after stopping playing the Application. Really bad! So, this was made to be sure we're not creating that buggy ghost object.

Properties

- static T instance [get]
- static T Instance [get]

Static Private Attributes

- static T instance
- static object _lock = new object()
- static bool applicationIsQuitting = false

3.11.1 Detailed Description

Be aware this will not prevent a non singleton constructor such as T myT = new T (); To prevent that, add protected T () {} to your singleton class.

As a note, this is made as MonoBehaviour because we need Coroutines.

Type Constraints

T: MonoBehaviour

3.11.2 Member Function Documentation

```
3.11.2.1 void Singleton < T >.OnDestroy() [inline]
```

When Unity quits, it destroys objects in a random order. In principle, a Singleton is only destroyed when application quits. If any script calls Instance after it have been destroyed, it will create a buggy ghost object that will stay on the Editor scene even after stopping playing the Application. Really bad! So, this was made to be sure we're not creating that buggy ghost object.

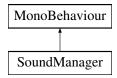
The documentation for this class was generated from the following file:

Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible
 — Circle_RoudTheBalls/Scripts/Singleton.cs

3.12 SoundManager Class Reference

Class in charge to play sound in the game.

Inheritance diagram for SoundManager:



Public Member Functions

- · void PlayFail ()
- · void PlayTouch ()

Properties

• AudioSource audioSource [get]

Private Attributes

- AudioSource _audioSource
- AudioClip soundFail
- AudioClip soundTouch

3.12.1 Detailed Description

Class in charge to play sound in the game.

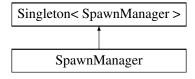
The documentation for this class was generated from the following file:

• /Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible ← Circle_RoudTheBalls/Scripts/SoundManager.cs

3.13 SpawnManager Class Reference

Class in charge to pooled the particle to not have to instantiate and destroy them each time the player make a point (about 200 particles each time the player earns 1 point).

Inheritance diagram for SpawnManager:



Public Member Functions

- void Init ()
- void SpawnParticle (Color c, Vector3 pos, Vector3 rot)

Public Attributes

· GameObject particle

Private Member Functions

- void Awake ()
- void CreatePoolParticle ()

Private Attributes

List< EllipsoidParticleEmitter > listParticle = new List<EllipsoidParticleEmitter>()

Additional Inherited Members

3.13.1 Detailed Description

Class in charge to pooled the particle to not have to instantiate and destroy them each time the player make a point (about 200 particles each time the player earns 1 point).

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

• /Volumes/LaCie/Dropbox/Anthony/__AppAdvisory/Impossible Circle Round The Ball/Assets/Impossible ← Circle_RoudTheBalls/Scripts/SpawnManager.cs

3.14 Util Class Reference

Utility class.

Static Public Member Functions

- static double GetRandomNumber (double minimum, double maximum)
- static float GetRandomNumber (float minimum, float maximum)
- · static void SetLastScore (int score)
- static int GetBestScore ()
- static int GetLastScore ()

Static Private Member Functions

· static void SetBestScore (int score)

Static Private Attributes

• static System.Random random = new System.Random()

3.14.1 Detailed Description

Utility class.

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

3.14 Util Class Reference 17 $\bullet \ / Volumes/LaCie/Dropbox/Anthony/_AppAdvisory/Impossible \ Circle \ Round \ The \ Ball/Assets/Impossible \leftarrow \\$ Circle_RoudTheBalls/Scripts/Util.cs

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