

# Namespace

## Classes

### [AudioManager](#)

Manages audio settings for the game, including music and sound effects (SFX) volume.

### [Bullet](#)

Player projectile class. Uses MonoBehaviour to interact with enemies and move across the screen. Interacts with enemy HealthManagers to deal damage. Implements `Start`, `FixedUpdate`, and `OnTriggerEnter2D` Unity functions.

### [CameraController](#)

Moves the camera around to follow the player. Implements `FixedUpdate()` to update its position smoothly.

### [CursorObj](#)

Keeps track of the cursor's position in world space, and aligns it to the game grid.

### [Deparent](#)

Utility class which moves the children of a GameObject out of the GameObject when it is initialized.

### [EndzoneTrigger](#)

Implements Unity's `OnTriggerEnter2D` to detect when a player reaches the endzone, then makes [GameManager](#) load the next level.

### [EnemyManager](#)

Manages the behavior and interactions of an enemy character in the game. This includes pathfinding and attacking the player. Implements Unity's `FixedUpdate` to perform actions per frame, and also uses the [IWeapon](#) strategy for flexibility.

### [EnemySpawnpoint](#)

Container to hold an [EnemyManager](#) GameObject

### [ExplodeWeapon](#)

An implementation of [IWeapon](#) which shoots out a burst of bullets when used.

### [GameManager](#)

Singleton which oversees the game.

### [HealthManager](#)

Adds health to a GameObject, allowing it to be damaged, and destroying it when health is set to zero.

### [HelpTile](#)

## [IWeapon](#)

Defines the Weapon Strategy, which is used by EnemyManager. Weapons keep track of their own cooldowns, and have some interfaces so the enemy can act depending on the weapon state (eg. run away if weapon is not ready).

## [Item](#)

container class to hold an ID for serialization.

## [LeaderboardDisplay](#)

Queries the backend to get and display the leaderboard data. Uses Unity's `Start` to do this on scene load.

## [LevelEditor](#)

Manages the editor scene, including selecting the tile to paint, serialization, and making sure levels are of a valid format (eg. tiles must not overlap). Implements Unity's `Start`, `Update`, and `FixedUpdate` to interact with the user per-frame

## [LevelModel](#)

## [LevelRequester](#)

Makes calls to the backend to load levels.

## [LevelResponse](#)

## [LevelSerializer](#)

Serializes levels: Turns a grid of [Tile](#) s into a list of positions and their associated tile IDs.

## [MeleeWeapon](#)

An implementation of [IWeapon](#) which directly damages the player when used, but has a short range.

## [Menu](#)

Controls Scene loading and opening options within the main menu.

## [ObjectIndex](#)

## [PalettItem](#)

Manages the tile painting feature when in the LevelEditor. Uses `Update` to "paint" the level scene per frame the mouse is down, and communicates with [LevelEditor](#) to update the level state accordingly.

## [PlayerController](#)

Implements movement and shooting for the player, as well as player interactions with water tiles. Uses Unity's `Update` and `FixedUpdate` to respond to input per frame.

## [Projectile](#)

Projectile launched by enemies, implements Unity's `FixedUpdate` to move across the screen per frame, and implements `OnTriggerEnter2D` to define collision logic.

### [RangedWeapon](#)

An implementation of [IWeapon](#) which shoots a [Projectile](#) at the player.

### [SceneAudio](#)

### [ScoreModel](#)

### [ScoreResponse](#)

### [SerializationTest](#)

Class implementing unit tests for level serialization/deserialization.

### [Startzone](#)

### [Tile](#)

A struct so objects interacting with Tile can easily get its `GameObject` and `Transform`, eg. when serializing. GameObjects can't hold onto values otherwise, so sometimes Data classes are necessary in Unity.

### [Transition](#)

Animates menus.

### [WaterTile](#)

Slows the player down when a Tile with this MonoBehaviour collides with the player.

# Class AudioManager

Namespace: [Global](#)

Manages audio settings for the game, including music and sound effects (SFX) volume.

```
public class AudioManager : MonoBehaviour
```

## Inheritance

[object](#)  ← AudioManager

## Fields

manager

```
public static AudioManager manager
```

Field Value

[AudioManager](#)

mixer

```
public AudioManager mixer
```

Field Value

AudioMixer

## Methods

LoadSettings()

Loads the saved music and SFX volume settings from PlayerPrefs and updates the AudioManager.

```
public void LoadSettings()
```

## SetGMusicVol(float)

Sets the global music volume and updates the corresponding AudioManager parameter.

```
public void SetGMusicVol(float vol)
```

### Parameters

vol [float](#)

The desired music volume level (range 0 to 1).

## SetGSFXVol(float)

Sets the global sound effects (SFX) volume and updates the corresponding AudioManager parameter.

```
public void SetGSFXVol(float vol)
```

### Parameters

vol [float](#)

The desired SFX volume level (range 0 to 1).

## UpdateSliders(Slider, Slider)

Updates the UI sliders to reflect the current music and SFX volume levels.

```
public void UpdateSliders(Slider musicSlider, Slider sfxSlider)
```

### Parameters

musicSlider Slider

The UI slider for adjusting music volume.

`sfxSlider` Slider

The UI slider for adjusting SFX volume.

# Class Bullet

Namespace: [Global](#)

Player projectile class. Uses MonoBehaviour to interact with enemies and move across the screen. Interacts with enemy HealthManagers to deal damage. Implements `Start`, `FixedUpdate`, and `OnTriggerEnter2D` Unity functions.

```
public class Bullet : MonoBehaviour
```

## Inheritance

[object](#) ↗ ← Bullet


# Class CameraController

Namespace: [Global](#)

Moves the camera around to follow the player. Implements `FixedUpdate()` to update its position smoothly.

```
public class CameraController : MonoBehaviour
```

## Inheritance

[object](#)  ← CameraController



# Class CursorObj

Namespace: [Global](#)

Keeps track of the cursor's position in world space, and aligns it to the game grid.

```
public class CursorObj : MonoBehaviour
```

## Inheritance

[object](#)  ← CursorObj

## Fields

pos

```
public static Vector2 pos
```

Field Value

Vector2

self

```
public static CursorObj self
```

Field Value

[CursorObj](#)

spriteRenderer

```
public SpriteRenderer spriteRenderer
```

Field Value

SpriteRenderer

trfm

```
public static Transform trfm
```

Field Value

Transform

# Class Deparent

Namespace: [Global](#)

Utility class which moves the children of a GameObject out of the GameObject when it is initialized.

```
public class Deparent : MonoBehaviour
```

## Inheritance

[object](#)  ← Deparent

# Class EndzoneTrigger

Namespace: [Global](#)

Implements Unity's `OnTriggerEnter2D` to detect when a player reaches the endzone, then makes [Game Manager](#) load the next level.

```
public class EndzoneTrigger : MonoBehaviour
```

## Inheritance

[object](#)  ← EndzoneTrigger


# Class EnemyManager

Namespace: [Global](#)

Manages the behavior and interactions of an enemy character in the game. This includes pathfinding and attacking the player. Implements Unity's `FixedUpdate` to perform actions per frame, and also uses the [IWeapon](#) strategy for flexibility.

```
public class EnemyManager : MonoBehaviour
```

## Inheritance

[object](#)  ← EnemyManager

## Methods

### ResetPath()

```
public void ResetPath()
```


# Class EnemySpawnpoint

Namespace: [Global](#)

Container to hold an [EnemyManager](#) GameObject

```
public class EnemySpawnpoint : MonoBehaviour
```

## Inheritance

[object](#)  ← EnemySpawnpoint

## Methods

### GetEnemy()

```
public GameObject GetEnemy()
```

Returns

GameObject

# Class ExplodeWeapon

Namespace: [Global](#)

An implementation of [IWeapon](#) which choots out a burst of bullets when used.

```
public class ExplodeWeapon : IWeapon
```

## Inheritance

[object](#)  ← [IWeapon](#) ← ExplodeWeapon

## Inherited Members

[IWeapon.attackCD](#) , [IWeapon.attackRange](#) , [IWeapon.attackDamage](#)

## Fields

projectilePrefab

```
public GameObject projectilePrefab
```

Field Value

GameObject

## Methods

Ready()

Get whether the weapon is Ready or not, typically when the cooldown is zero.

```
public override bool Ready()
```

Returns

[bool](#) 

Whether the weapon is ready or not

## Usable(GameObject)

Get whether the weapon is Usable, typically when the cooldown is zero AND the player is close enough.

```
public override bool Usable(GameObject target)
```

### Parameters

**target** GameObject

### Returns

[bool](#)<sup>↗</sup>

Whether the weapon is usable

## Use(GameObject)

What to do when the weapon is used, eg. spawn projectiles, damage the player directly, etc.

```
public override IEnumerator Use(GameObject target)
```

### Parameters

**target** GameObject

### Returns

[IEnumerator](#)<sup>↗</sup>

IEnumerator: This happens asynchronously as a Unity coroutine, so it must return an IEnumerator




# Class GameManager

Namespace: [Global](#)

Singleton which oversees the game.

```
public class GameManager : MonoBehaviour
```

## Inheritance

[object](#)  ← GameManager

## Fields

### GameStart

```
public static UnityEvent GameStart
```

Field Value

UnityEvent

## Instance

```
public static GameManager Instance
```

Field Value

[GameManager](#)

## Properties

### LevelSerializer

```
public LevelSerializer LevelSerializer { get; }
```

Property Value

[LevelSerializer](#)

## Methods

### EndGame()


```
public void EndGame()
```

### LoadLevel(string)

Loads a level based on the

```
public void LoadLevel(string levelString)
```

### Parameters

**levelString** [string](#) 

The level to load, serialized as a string

### SetupLevel(bool)

Queries the backend using [LevelRequester](#) , then loads the level based on the serialized level strings returned.

```
public void SetupLevel(bool skipped = false)
```

### Parameters

**skipped** [bool](#) 

If set to true, increments the player's score

# UnloadLevel()

Deletes all GameObjects associated with the level.

Remark: Switching levels doesn't actually involve changing scenes, only resetting certain states and loading/destroying GameObjects

```
public void UnloadLevel()
```

# Class HealthManager

Namespace: [Global](#)

Adds health to a GameObject, allowing it to be damaged, and destroying it when health is set to zero.

```
public class HealthManager : MonoBehaviour
```

## Inheritance

[object](#)  ← HealthManager

## Fields

### MaxHealth

Health cap and the amount of health the GameObject starts with.

```
public int MaxHealth
```

Field Value

[int](#) 

## Properties

### Dying

Dying is set to true if the GameObject is in the process of being destroyed, eg. when a death animation is playing.

```
public bool Dying { get; }
```

Property Value

[bool](#) 

# Health

```
public int Health { get; set; }
```

## Property Value

[int](#)

# Class HelpTile

Namespace: [Global](#)

```
public class HelpTile : MonoBehaviour
```

## Inheritance

[object](#)  ← HelpTile

# Class IWeapon

Namespace: [Global](#)

Defines the Weapon Strategy, which is used by EnemyManager. Weapons keep track of their own cooldowns, and have some interfaces so the enemy can act depending on the weapon state (eg. run away if weapon is not ready).

```
public abstract class IWeapon : MonoBehaviour
```

## Inheritance

[object](#) ↗ ← IWeapon

## Derived

[ExplodeWeapon](#), [MeleeWeapon](#), [RangedWeapon](#)

## Fields

### attackCD

All weapons have an attack cooldown

```
protected float attackCD
```

Field Value

[float](#) ↗

### attackDamage

The amount of damage to do when the weapon hits.

```
protected int attackDamage
```

Field Value

[int](#) ↗

# attackRange

Get the attack range of the weapon. Enemies need to know this to get in range of the player.

```
public float attackRange
```

Field Value

[float](#)

## Methods

### Ready()

Get whether the weapon is Ready or not, typically when the cooldown is zero.

```
public abstract bool Ready()
```

Returns

[bool](#)

Whether the weapon is ready or not

### Usable(GameObject)

Get whether the weapon is Usable, typically when the cooldown is zero AND the player is close enough.

```
public abstract bool Usable(GameObject target)
```

Parameters

**target** GameObject

Returns



[bool](#)

Whether the weapon is usable

## Use(GameObject)

What to do when the weapon is used, eg. spawn projectiles, damage the player directly, etc.

```
public abstract IEnumerator Use(GameObject target)
```

### Parameters

**target** GameObject

### Returns

[IEnumerator](#)

IEnumerator: This happens asynchronously as a Unity coroutine, so it must return an IEnumerator

# Class Item

Namespace: [Global](#)

container class to hold an ID for serialization.

```
public class Item : MonoBehaviour
```

## Inheritance

[object](#)  ← Item

## Fields

id

```
public int id
```

Field Value

[int](#) 


# Class LeaderboardDisplay

Namespace: [Global](#)

Queries the backend to get and display the leaderboard data. Uses Unity's **Start** to do this on scene load.

```
public class LeaderboardDisplay : MonoBehaviour
```

## Inheritance

[object](#)  ← LeaderboardDisplay

# Class LevelEditor

Namespace: [Global](#)

Manages the editor scene, including selecting the tile to paint, serialization, and making sure levels are of a valid format (eg. tiles must not overlap). Implements Unity's [Start](#), [Update](#), and [FixedUpdate](#) to interact with the user per-frame

```
public class LevelEditor : MonoBehaviour
```

## Inheritance

[object](#)  ← LevelEditor

## Fields

### TILE\_BRICK

```
public const int TILE_BRICK = 2
```

Field Value

[int](#) 

### TILE\_END

```
public const int TILE_END = 1
```

Field Value

[int](#) 

### TILE\_ENEMY

```
public const int TILE_ENEMY = 5
```

Field Value

[int](#)

## TILE\_LAVA

```
public const int TILE_LAVA = 4
```

Field Value

[int](#)

## TILE\_START

```
public const int TILE_START = 0
```

Field Value

[int](#)

## TILE\_WATER

```
public const int TILE_WATER = 3
```

Field Value

[int](#)

## brushType

```
public int brushType
```

Field Value

[int](#)

## mapSerialization

```
public string mapSerialization
```

Field Value

[string](#)

## origin

```
public Vector2 origin
```

Field Value

Vector2

## paletteHover

```
public static bool paletteHover
```

Field Value

[bool](#)

## self

```
public static LevelEditor self
```

Field Value

[LevelEditor](#)

## tileIDsMap

Maps positions in the scene to Tile IDs for serialization

```
public Dictionary<Vector2, int> tileIDsMap
```

Field Value

[Dictionary](#) <[Vector2](#), [int](#)>

## tileObjMap

Maps positions in the scene to GameObjects to control game state

```
public Dictionary<Vector2, Tile> tileObjMap
```

Field Value

[Dictionary](#) <[Vector2](#), [Tile](#)>

## tileSize

```
public float tileSize
```

Field Value

[float](#)

## Methods

### RequestBrush(int)

```
public void RequestBrush(int id)
```

Parameters

id [int](#)




# Class LevelModel








Namespace: [Global](#)

```
[Serializable]  
public class LevelModel
```

## Inheritance

[object](#)  ← LevelModel

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,  
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

## Fields

### author

```
public string author
```

### Field Value

[string](#) 

### level\_name

```
public string level_name
```

### Field Value

[string](#) 

### serialized\_level

```
public string serialized_level
```

Field Value

[string](#) 

# Class LevelRequester

Namespace: [Global](#)

Makes calls to the backend to load levels.

```
public class LevelRequester : MonoBehaviour
```

## Inheritance

[object](#)  ← LevelRequester

## Methods

### GetLevel()

Returns a random level from the levels which have been received by [RequestLevels](#).

```
public LevelModel GetLevel()
```

Returns

[LevelModel](#)

LevelModel: a struct containing a Level's name, creator, and serialized string

### QueryAllLevels()

Queries a certain number levels from the backend at once.

```
public IEnumerator QueryAllLevels()
```

Returns

[IEnumerator](#) 

IEnumerator: this is required for Unity's coroutines feature, which lets us make backend calls asynchronously



# Class LevelResponse








Namespace: [Global](#)

```
[Serializable]  
public class LevelResponse
```

## Inheritance

[object](#)  ← LevelResponse

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,  
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

## Fields

### data

```
public List<LevelModel> data
```

### Field Value

[List](#)  <[LevelModel](#)>

### message

```
public string message
```

### Field Value

[string](#) 

### statusCode

```
public int statusCode
```

Field Value

[int](#)

# Class LevelSerializer

Namespace: [Global](#)

Serializes levels: Turns a grid of [Tile](#) s into a list of positions and their associated tile IDs.

```
public class LevelSerializer : MonoBehaviour
```

## Inheritance

[object](#) ↗ ← LevelSerializer

## Methods

### LoadField(string, GameObject, Transform)

Loads a level by turning the serialized string into [GameObjects](#) under the [parent](#) parameter, then moves the player to starting location provided by [playerTransform](#)

```
public void LoadField(string data, GameObject parent, Transform playerTransform)
```

## Parameters

[data](#) [string](#) ↗

Serialized level data

[parent](#) [GameObject](#)

Parent under which to create the level's [GameObjects](#)

[playerTransform](#) [Transform](#)

Where to move the player

### SaveField(GameObject)

Serializes and uploads a [GameObject](#) [parent](#) to the backend.

```
public void SaveField(GameObject parent)
```

## Parameters

**parent** GameObject

The **GameObject** to be serialized and saved

## SerializeLevel(GameObject)

Serializes a GameObject **parent** representing the level into a string which can be stored and later deserialized.

```
public string SerializeLevel(GameObject parent)
```

## Parameters

**parent** GameObject

Unity **GameObject** representing the parent of all of the tiles in a level (like the html root element).

## Returns

[string](#)<sup>↗</sup>

String representing the serialized level



# Class MeleeWeapon

Namespace: [Global](#)

An implementation of [IWeapon](#) which directly damages the player when used, but has a short range.

```
public class MeleeWeapon : IWeapon
```

## Inheritance

[object](#)  ← [IWeapon](#) ← MeleeWeapon

## Inherited Members

[IWeapon.attackCD](#) , [IWeapon.attackRange](#) , [IWeapon.attackDamage](#)

# Methods

## Ready()

Get whether the weapon is Ready or not, typically when the cooldown is zero.

```
public override bool Ready()
```

## Returns

[bool](#) 

Whether the weapon is ready or not

## Usable(GameObject)

Get whether the weapon is Usable, typically when the cooldown is zero AND the player is close enough.

```
public override bool Usable(GameObject target)
```

## Parameters

**target** GameObject

## Returns

[bool](#)

Whether the weapon is usable

## Use(GameObject)

What to do when the weapon is used, eg. spawn projectiles, damage the player directly, etc.

```
public override IEnumerator Use(GameObject target)
```

## Parameters

**target** GameObject

## Returns

[IEnumerator](#)

IEnumerator: This happens asynchronously as a Unity coroutine, so it must return an IEnumerator

# Class Menu

Namespace: [Global](#)

Controls Scene loading and opening options within the main menu.

```
public class Menu : MonoBehaviour
```

## Inheritance

[object](#)  ← Menu

## Fields

### errorText

```
public GameObject errorText
```

Field Value

GameObject

### panel

```
public GameObject panel
```

Field Value

GameObject

### usernameInput

```
public TMP_InputField usernameInput
```

Field Value

TMP\_InputField

## Methods

### CloseOptions()

```
public void CloseOptions()
```

### LoadScene(string)

```
public void LoadScene(string game)
```

Parameters

game [string](#) 

### OpenOptions()

```
public void OpenOptions()
```

### PauseGame()

```
public void PauseGame()
```

### PlayGame(string)

```
public void PlayGame(string game)
```

Parameters

game [string](#)

## Quit()

```
public void Quit()
```

## UnpauseGame()


```
public void UnpauseGame()
```

# Class ObjectIndex

Namespace: [Global](#)

```
public class ObjectIndex : ScriptableObject
```

## Inheritance


[object](#)  ← ObjectIndex

## Fields

objects

```
public List<GameObject> objects
```

## Field Value

[List](#)  <GameObject>

# Class PalettetItem

Namespace: [Global](#)

Manages the tile painting feature when in the LevelEditor. Uses `Update` to "paint" the level scene per frame the mouse is down, and communicates with [LevelEditor](#) to update the level state accordingly.

```
public class PaletteItem : MonoBehaviour
```

## Inheritance

[object](#)  ← PalettetItem

# Class PlayerController

Namespace: [Global](#)

Implements movement and shooting for the player, as well as player interactions with water tiles. Uses Unity's `Update` and `FixedUpdate` to respond to input per frame.

```
public class PlayerController : MonoBehaviour
```

## Inheritance

[object](#)  ← PlayerController

## Fields

### moveSpeed

```
public float moveSpeed
```

Field Value

[float](#) 

### self

```
public static PlayerController self
```

Field Value

[PlayerController](#)

### trfm

```
public static Transform trfm
```



Field Value

Transform

## Methods

EnterWater()

```
public void EnterWater()
```

ExitWater()

```
public void ExitWater()
```

# Class Projectile

Namespace: [Global](#)

Projectile launched by enemies, implements Unity's `FixedUpdate` to move across the screen per frame, and implements `OnTriggerEnter2D` to define collision logic.

```
public class Projectile : MonoBehaviour
```

## Inheritance

[object](#) ↗ ← Projectile

## Properties

### Direction

```
public Vector3 Direction { get; set; }
```

### Property Value

Vector3

# Class RangedWeapon

Namespace: [Global](#)

An implementation of [IWeapon](#) which shoots a [Projectile](#) at the player.

```
public class RangedWeapon : IWeapon
```

## Inheritance

[object](#)  ← [IWeapon](#) ← RangedWeapon

## Inherited Members

[IWeapon.attackCD](#) , [IWeapon.attackRange](#) , [IWeapon.attackDamage](#)

## Fields

### projectilePrefab

```
public GameObject projectilePrefab
```

Field Value

GameObject

## Methods

### Ready()

Get whether the weapon is Ready or not, typically when the cooldown is zero.

```
public override bool Ready()
```

Returns

[bool](#) 

Whether the weapon is ready or not

## Usable(GameObject)

Get whether the weapon is Usable, typically when the cooldown is zero AND the player is close enough.

```
public override bool Usable(GameObject target)
```

### Parameters

**target** GameObject

### Returns

[bool](#)<sup>↗</sup>

Whether the weapon is usable

## Use(GameObject)

What to do when the weapon is used, eg. spawn projectiles, damage the player directly, etc.

```
public override IEnumerator Use(GameObject target)
```

### Parameters

**target** GameObject

### Returns

[IEnumerator](#)<sup>↗</sup>

IEnumerator: This happens asynchronously as a Unity coroutine, so it must return an IEnumerator

# Class SceneAudio

Namespace: [Global](#)

```
public class SceneAudio : MonoBehaviour
```

## Inheritance

[object](#) ↗ ← SceneAudio

## Fields

### musicSlider

```
public Slider musicSlider
```

Field Value

Slider

### sfxSlider

```
public Slider sfxSlider
```

Field Value

Slider

## Methods

### PlaySound(AudioSource)

```
public void PlaySound(AudioSource sound)
```

## Parameters

**sound** AudioSource

## SetMusicVol(float)

```
public void SetMusicVol(float vol)
```

## Parameters

**vol** [float](#)

## SetSFXVol(float)

```
public void SetSFXVol(float vol)
```

## Parameters

**vol** [float](#)

# Class ScoreModel








Namespace: [Global](#)

```
[Serializable]  
public class ScoreModel
```

## Inheritance

[object](#)  ← ScoreModel

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#) 

## Fields

### name

```
public string name
```

### Field Value

[string](#) 

### score

```
public int score
```

### Field Value

[int](#) 

# Class ScoreResponse

Namespace: [Global](#)








[Serializable]

```
public class ScoreResponse
```

## Inheritance

[object](#)  ← ScoreResponse

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,  
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

## Fields

### data

```
public List<ScoreModel> data
```

### Field Value

[List](#)  <[ScoreModel](#)>

### message

```
public string message
```

### Field Value

[string](#) 

### statusCode



```
public int statusCode
```

Field Value

[int](#)


# Class SerializationTest

Namespace: [Global](#)

Class implementing unit tests for level serialization/deserialization.

```
public class SerializationTest : MonoBehaviour
```

## Inheritance

[object](#)  ← SerializationTest

## Methods

### RunTest()

Tests serialization by verifying a level is deserialized, then serialized back into the same string.


```
public void RunTest()
```

# Class Startzone

Namespace: [Global](#)

```
public class Startzone : MonoBehaviour
```

## Inheritance

[object](#)  ← Startzone

## Fields

## Instance

```
protected static Startzone Instance
```

## Field Value

[Startzone](#)

# Class Tile

Namespace: [Global](#)

A struct so objects interacting with Tile can easily get its **GameObject** and **Transform**, eg. when serializing. GameObjects can't hold onto values otherwise, so sometimes Data classes are necessary in Unity.

```
public class Tile : MonoBehaviour
```

## Inheritance

[object](#)  ← Tile

## Fields

obj

```
public GameObject obj
```

Field Value

GameObject

trfm

```
public Transform trfm
```

Field Value

Transform

# Class Transition

Namespace: [Global](#)

Animates menus.

```
public class Transition : MonoBehaviour
```

## Inheritance

[object](#)  ← Transition

## Fields

### Instance

```
public static Transition Instance
```

Field Value

[Transition](#)

## Methods

### HideScreen()

```
public void HideScreen()
```

### ShowScreen()

```
public void ShowScreen()
```

# Class WaterTile

Namespace: [Global](#)

Slows the player down when a Tile with this Monobehavior collides with the player.

```
public class WaterTile : MonoBehaviour
```

## Inheritance

[object](#)  ← WaterTile