

Word Blocks Documentation

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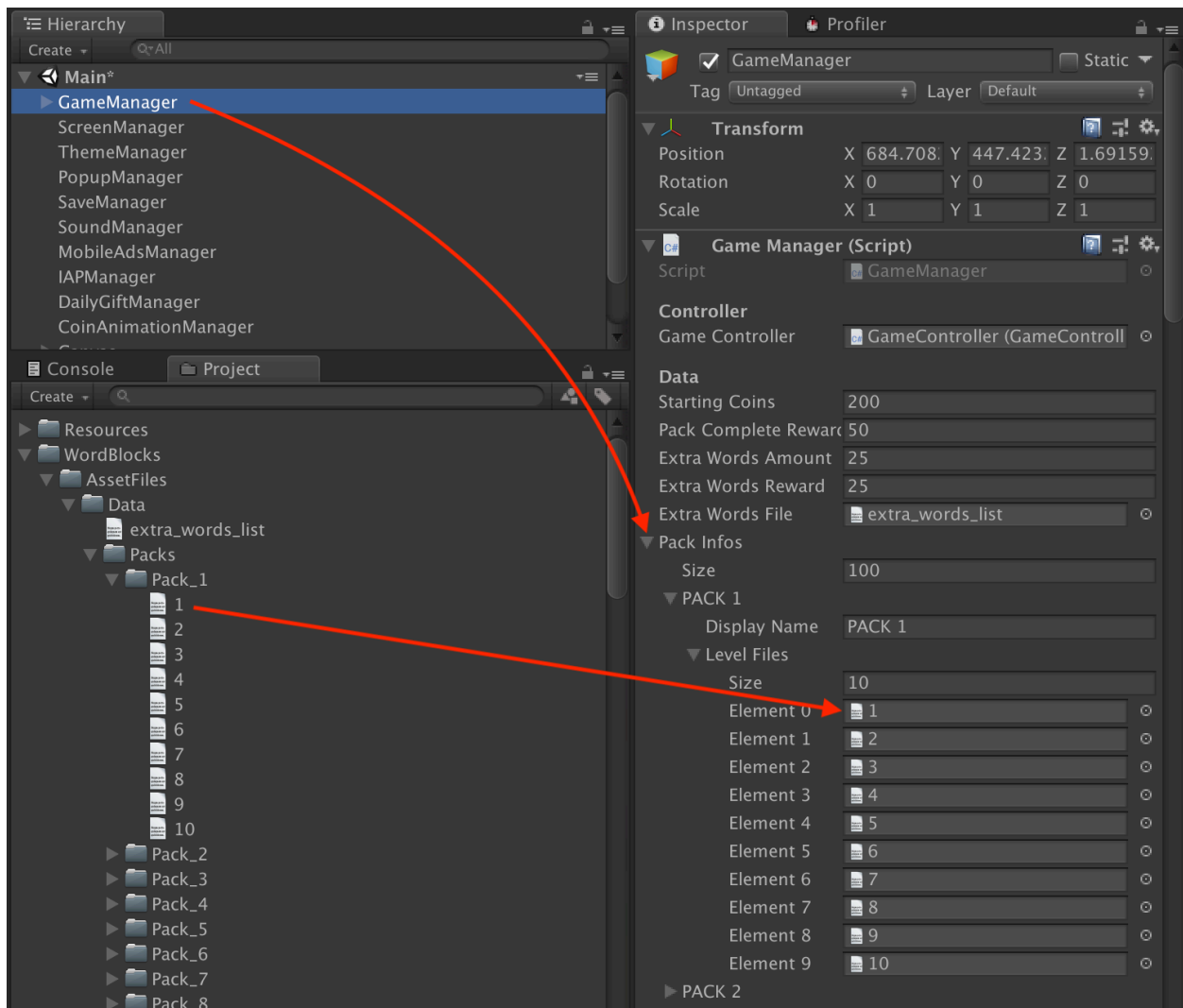
Creating Levels

Each level file is a text file which contains the **hint** on the first line followed by all **words** in the level on their own lines.

For example level one's hint is SCHOOL SUBJECTS and the words are GYM, ART, and DRAMA so it's level file contains:

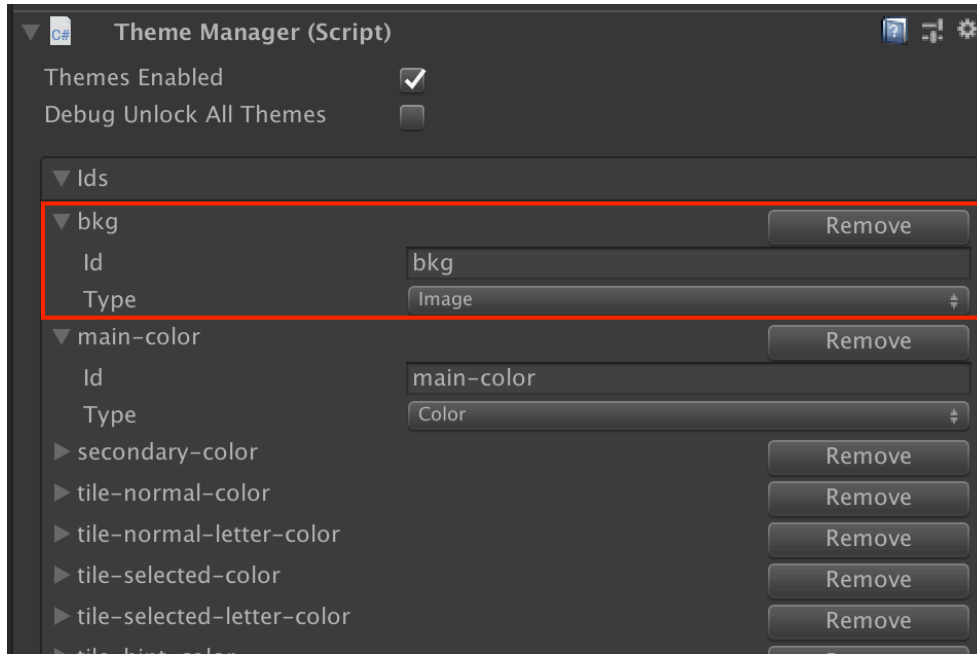
```
SCHOOL SUBJECTS
GYM
ART
DRAMA
```

After you create the level text file it can be added to the game using the **GameManager's** inspector. Click on the GameManager then expand **Pack Infos** and create or expand the pack you would like to add the level to and add the level file to the **Level Files** list.

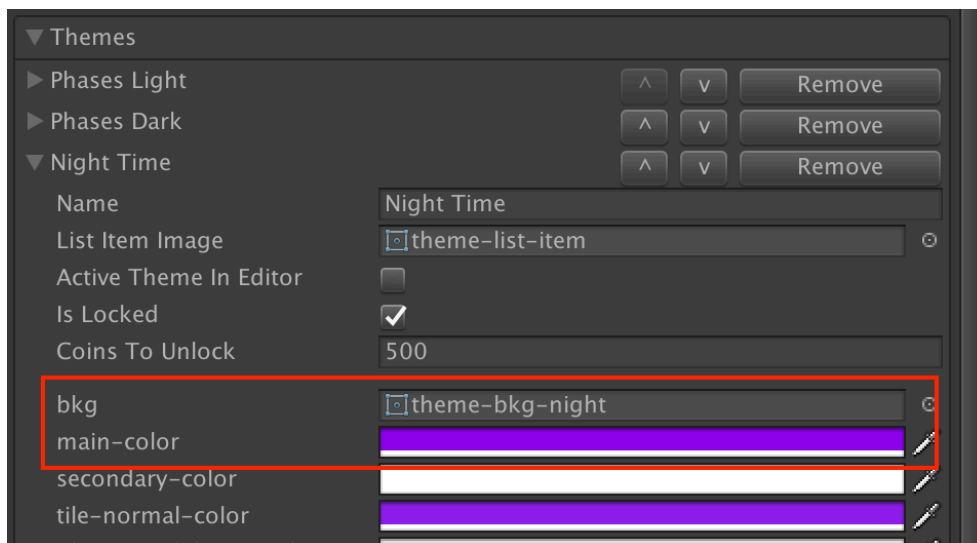


Themes

The themes are created and controlled using the **ThemeManager**. The ThemeManager works by first adding **Ids** and assigning them to a **type** (Image, Color, or Prefab).



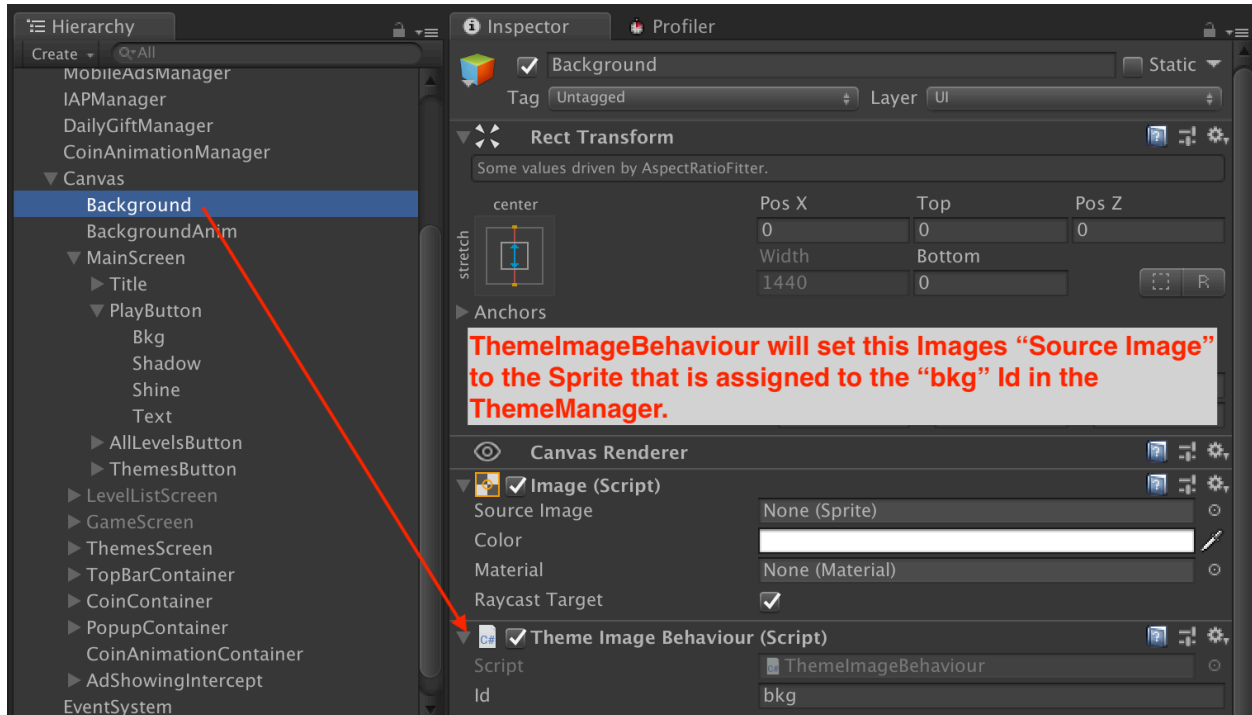
A new field will appear in each **Theme** where you can set the Sprite, Color, or prefab reference for the Id you just created:



To use the themes in the application you can use one of the three components: **ThemeImageBehaviour**, **ThemeColorBehaviour**, and **ThemePrefabBehaviour**. Or you can programmatically fetch the ThemeItem using the ThemeManager.

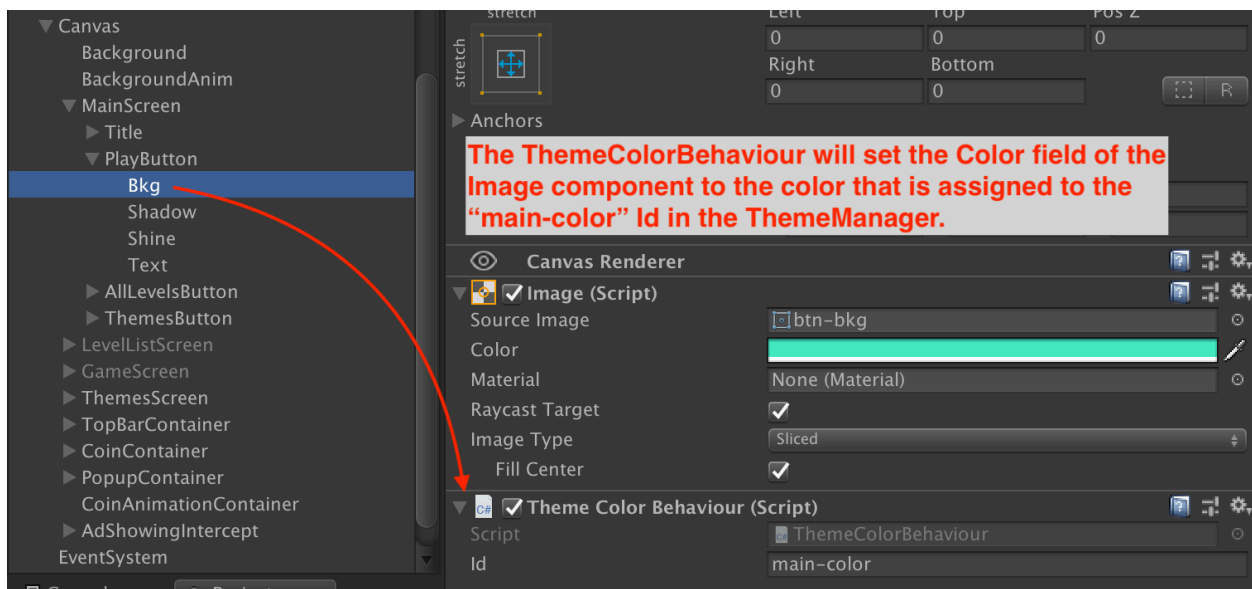
ThemeImageBehaviour

The ThemeImageBehaviour is used for theme Ids that are set to the Image type. When the game runs it sets the **Source Image** of the **Image component** that is attached to the same GameObject to the Sprite set in the ThemeManager for the specified Id. Example:



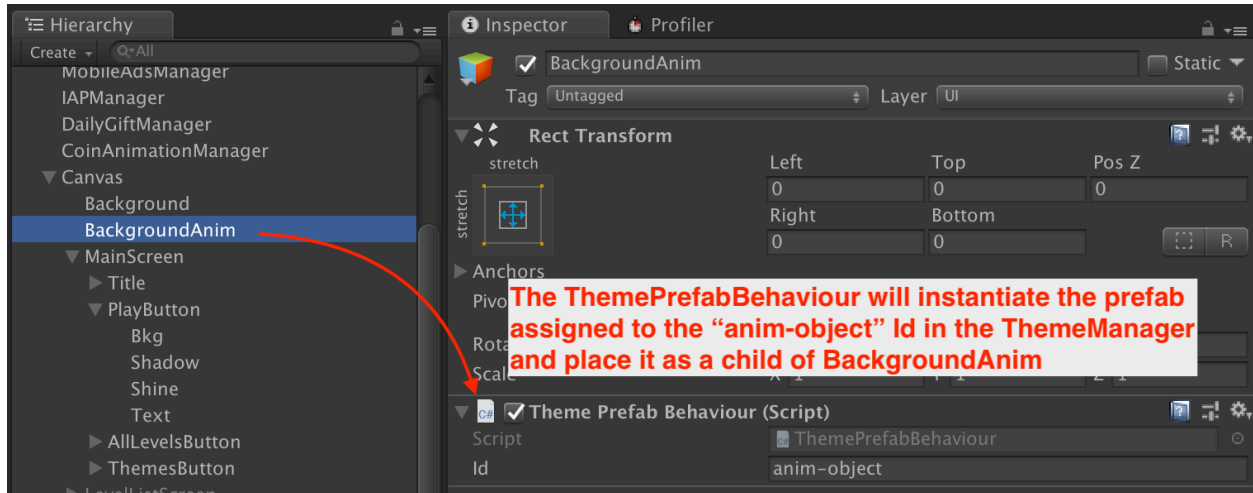
ThemeColorBehaviour

The ThemeColorBehaviour is used for theme Ids that are set to the Color type. When the game runs it sets the Color of the Graphic component (Image, RawImage, Text) to the the color set in the ThemeManager for the specified Id. Example:



ThemePrefabBehaviour

The ThemePrefabBehaviour is used for theme Ids that are set to the Prefab type. When the game runs it will instantiate the prefab set in the ThemeManager for the specified Id and set it as a child. Example:



Programmatically

To fetch a ThemeItem for an Id you can call the following method:

```
ThemeManager.Instance.GetThemeItem(string id, out ThemeItem themeItem, out ItemId itemId);
```

This will get the ThemeItem object for the active theme with the given id. An example of this can be found in **GridLetterTile.cs** in the **SetColor** method where it gets the various colors for different states of the tile (normal, selected, etc).

Sounds

Sounds in the game are controlled using the SoundManager. On the SoundManager's inspector you will find a number of Sounds Infos already created and used in the game.

Sound Info fields

Id - The Id used to play the sound in the game.

Audio Clip - The sound file from your project.

Type - The type of sound (Sound Effect or Music), this is used to turn on/off all sounds of a particular type.

Play And Loop On Start - If selected the Audio Clip will play when the game starts and will loop forever unless it is stopped.

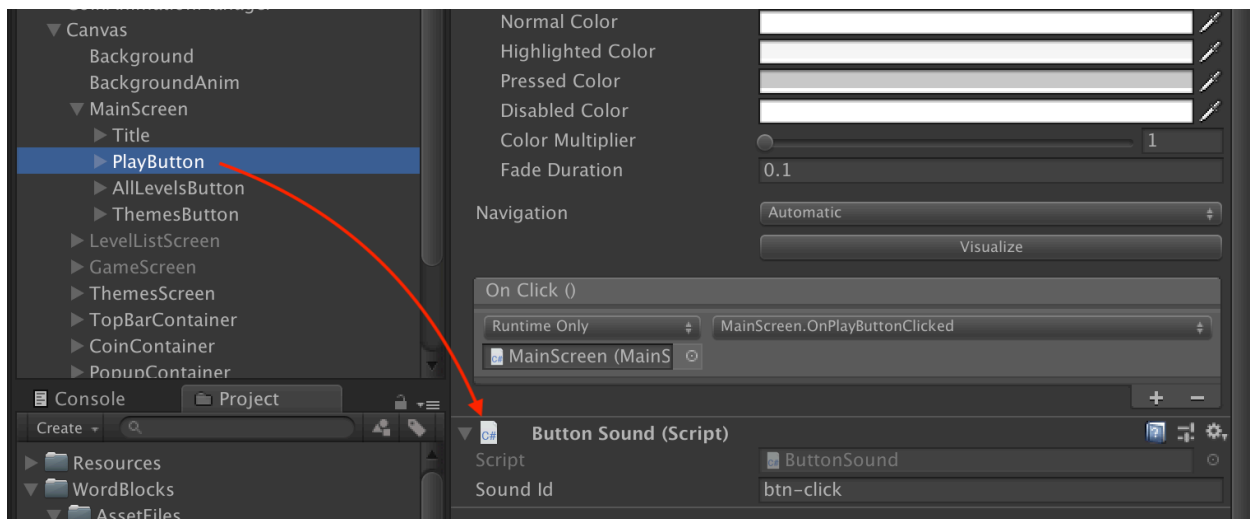
Clip Volume - Sets the volume of the sound when it is played.

Playing Sounds

Sounds can be played by calling the **Play** method on the SoundManager like so:

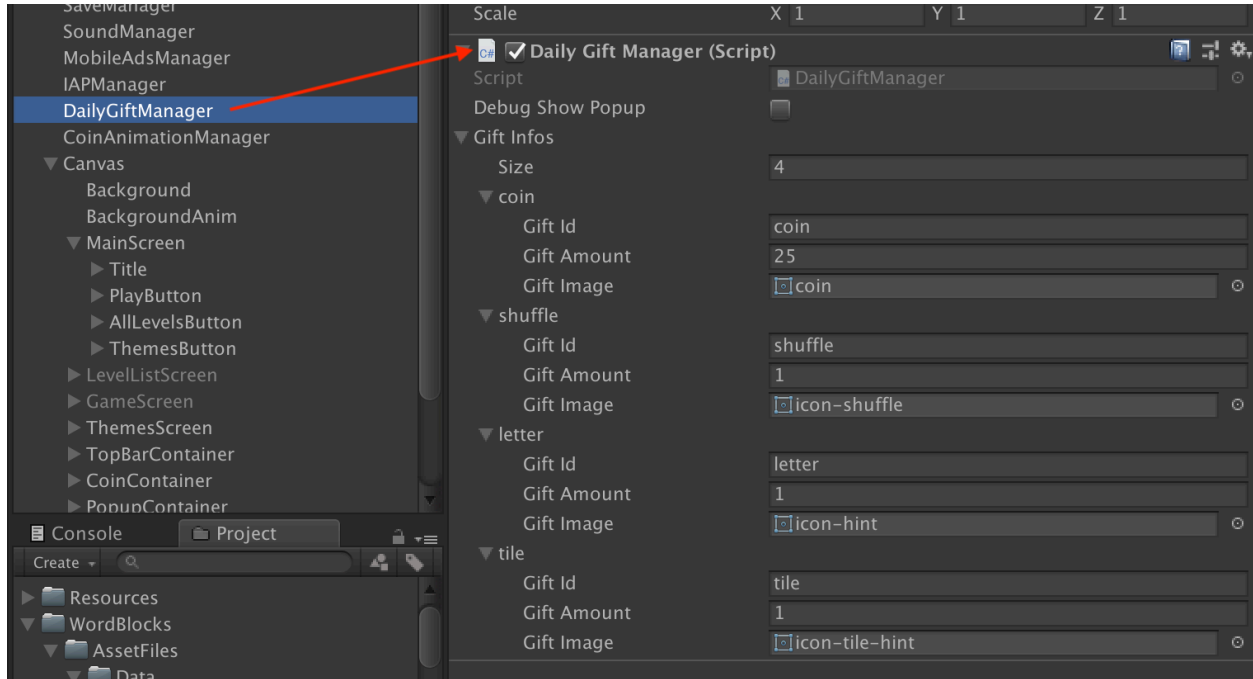
```
SoundManager.Instance.Play(string id);
```

You can easily play a sound when a Button is clicked by adding the **ButtonSound** component to a GameObject with a **Button** component. The ButtonSound will play the sound with the specified Id every time the button is clicked.



Daily Gifts

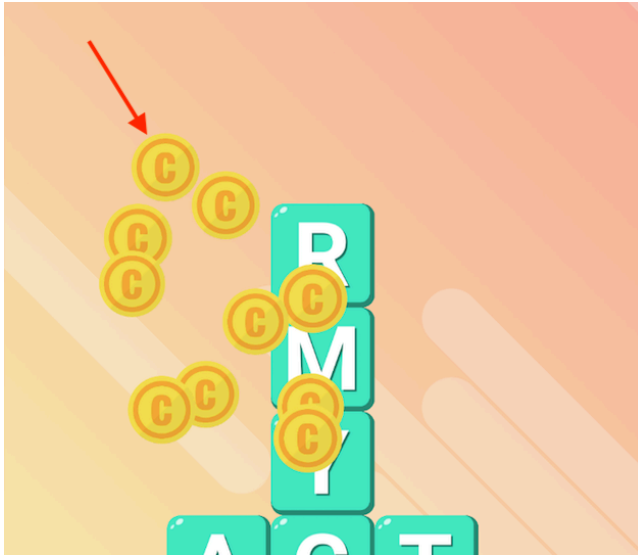
The DailyGiftManager is used to award a gift to the user when they open the application the first time each day. There are 4 gifts in the Word Blocks asset that can be given to the player: coins, shuffle, letter hints, and tile hints. The amount the player gets can be assigned on the DailyGiftManagers inspector.



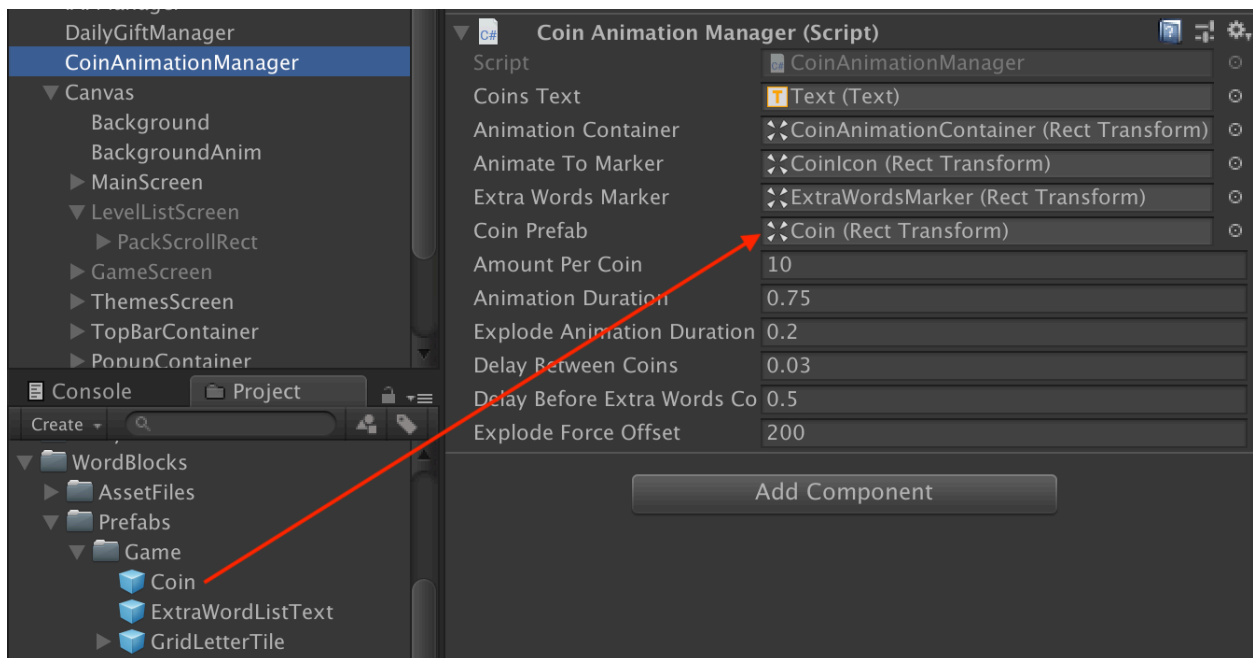
Project

In this section I will show you where you can find / edit some game elements that are instantiated when the game runs and are not located in the Scenes hierarchy.

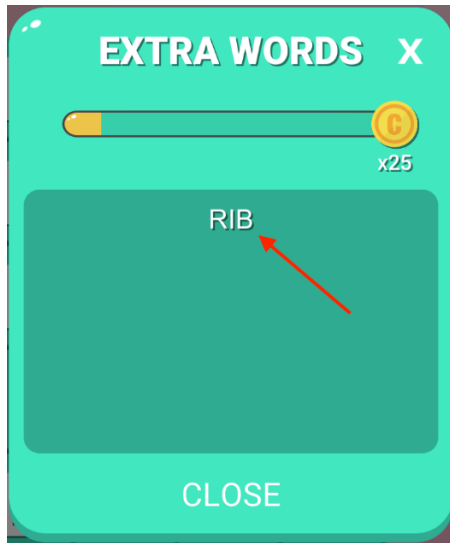
Coins



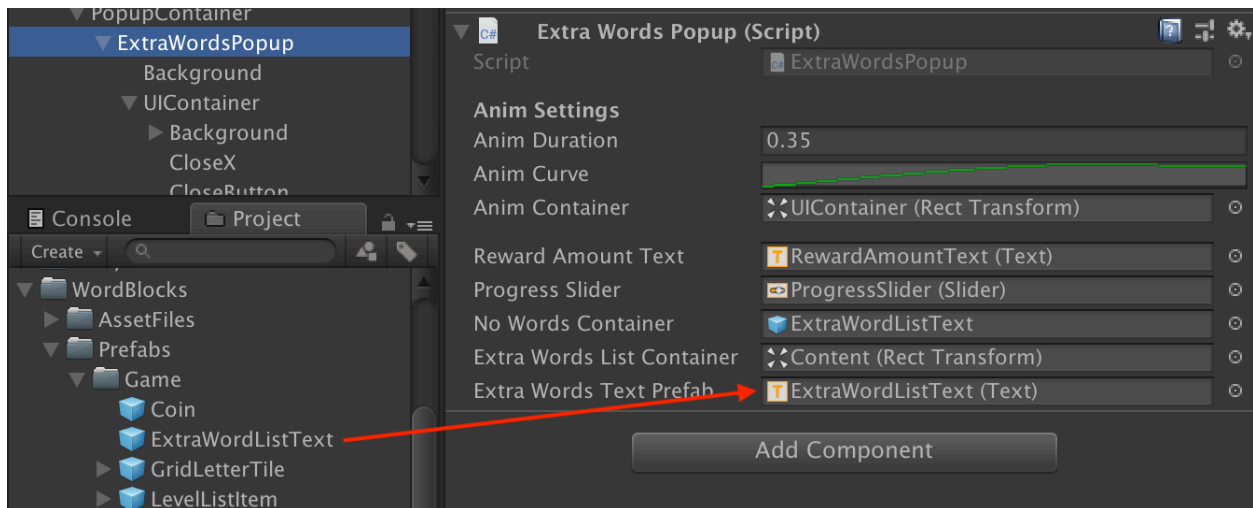
The flying coins are created / controlled by the CoinAnimationManager. The **CoinPrefab** is the prefab that is instantiated when a coin needs to be animated across the screen. The **Coin** prefab in the Prefabs folder is the coin that is being used in the asset.



Extra Words Text



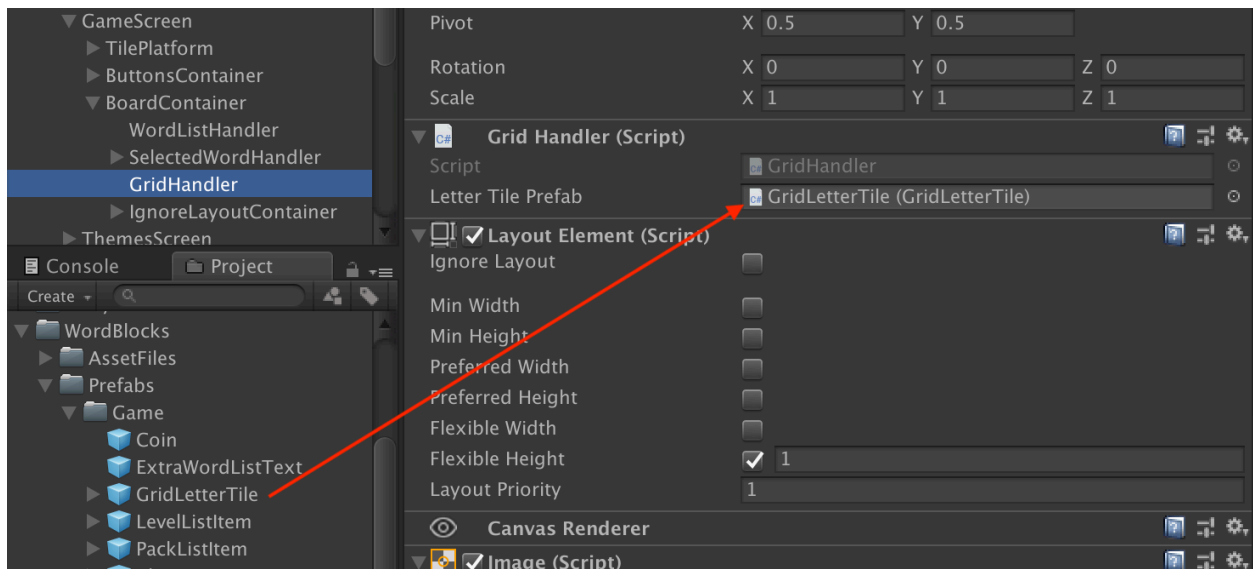
The extra words text is instantiated by the ExtraWordsPopup. The **Extra Words Text Prefab** is the prefab that is instantiated when the popup populates the list of found extra words. The ExtraWordListText prefab in the Prefabs folder is the one used in the asset:



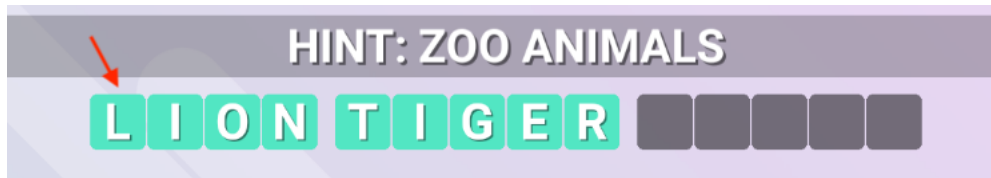
Grid Letter Tiles



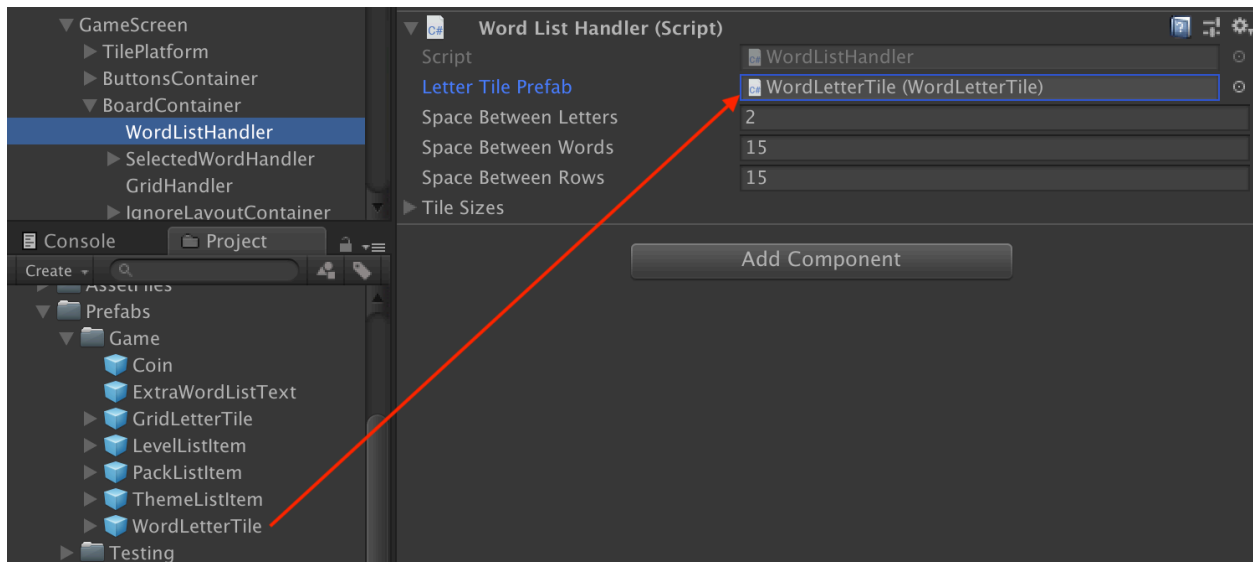
The **GridHandler** is responsible for instantiating and positioning the tiles that the player selects. The **Letter Tile Prefab** is the prefab that is instantiated for each cell in the grid. The GridLetterTile in the Prefabs folder is the prefab used in the asset:



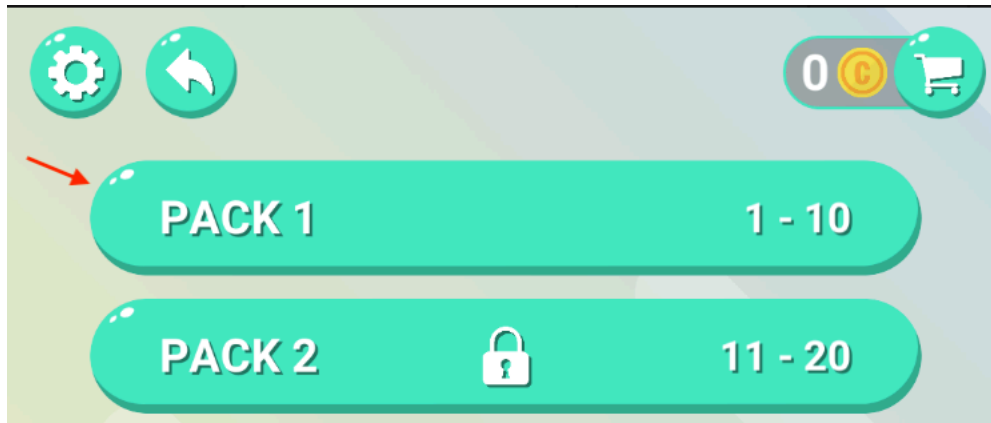
Word Letter Tile



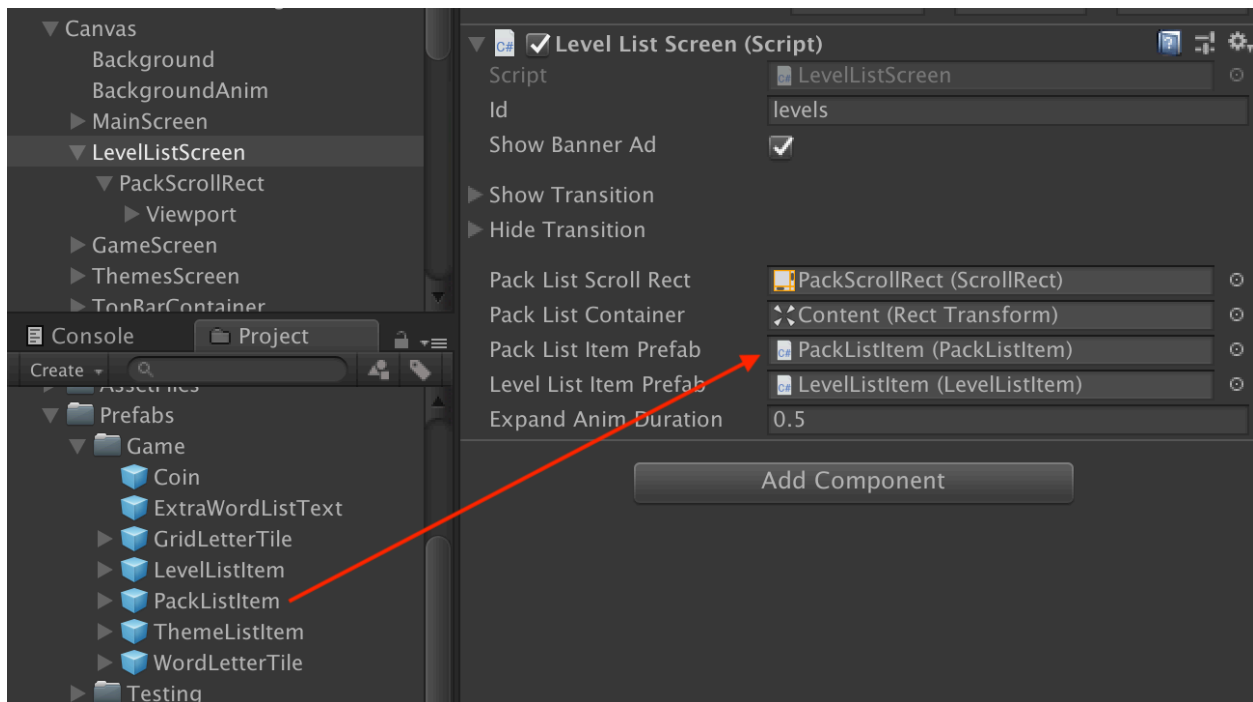
The **WordListHandler** is responsible for instantiating and positioning the tiles for the words at the top of the game screen. The **Letter Tile Prefab** is the prefab that is instantiated for each letter in each word. The WordLetterTile in the Prefabs folder is the prefab used in the asset:



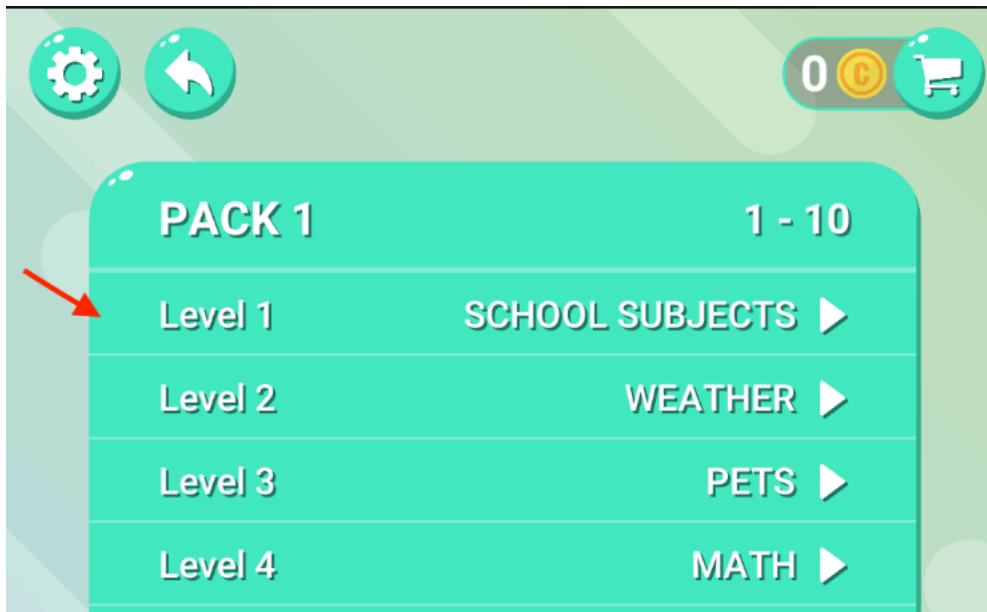
Pack List Item



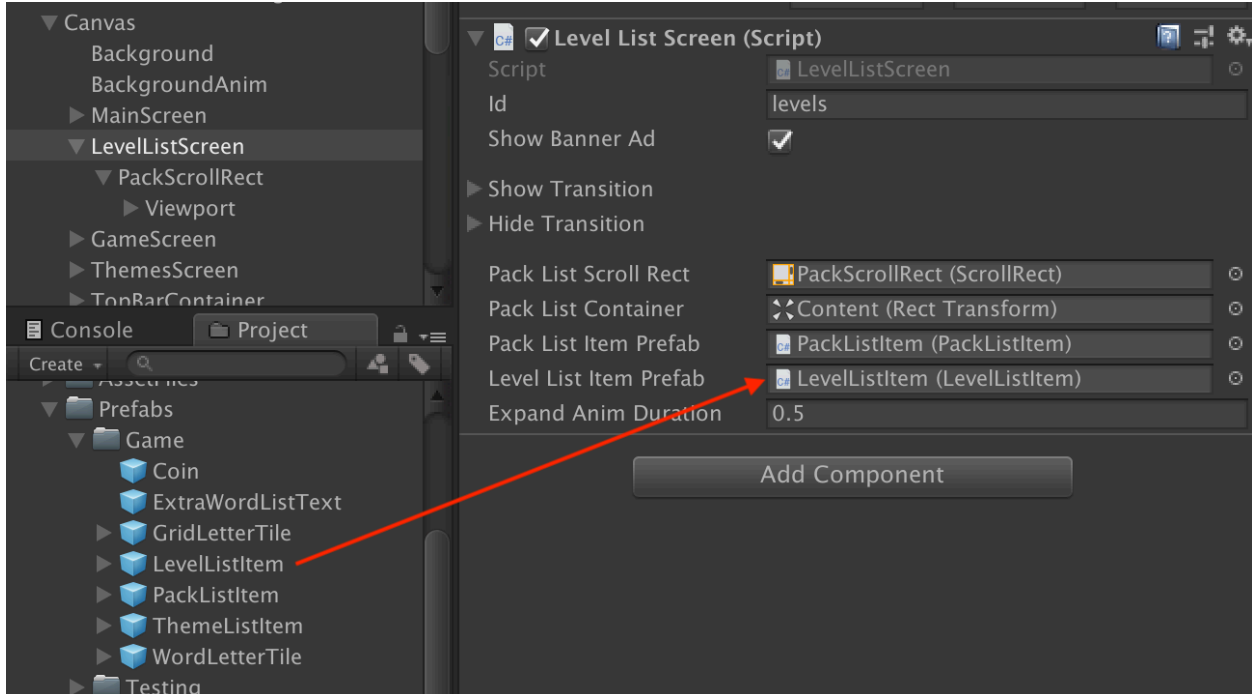
The **LevelListScreen** is responsible for instantiating the pack list items. The **Pack List Item Prefab** is the prefab that is instantiated for each Pack Info set on the GameManager. The PackListItem in the Prefabs folder is the prefab used in the asset:



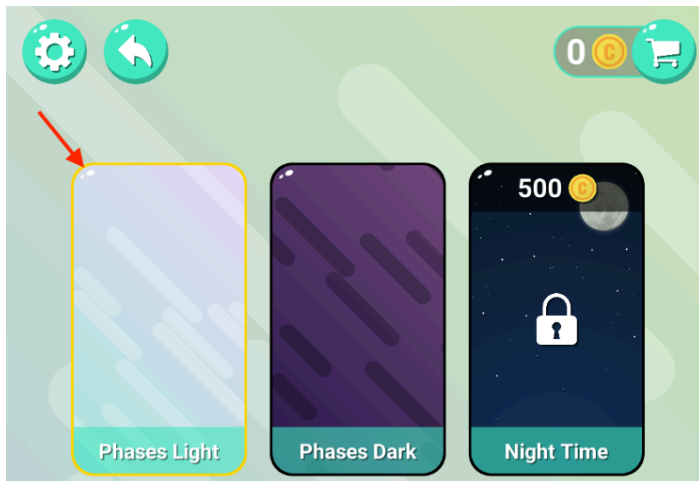
Level List Item



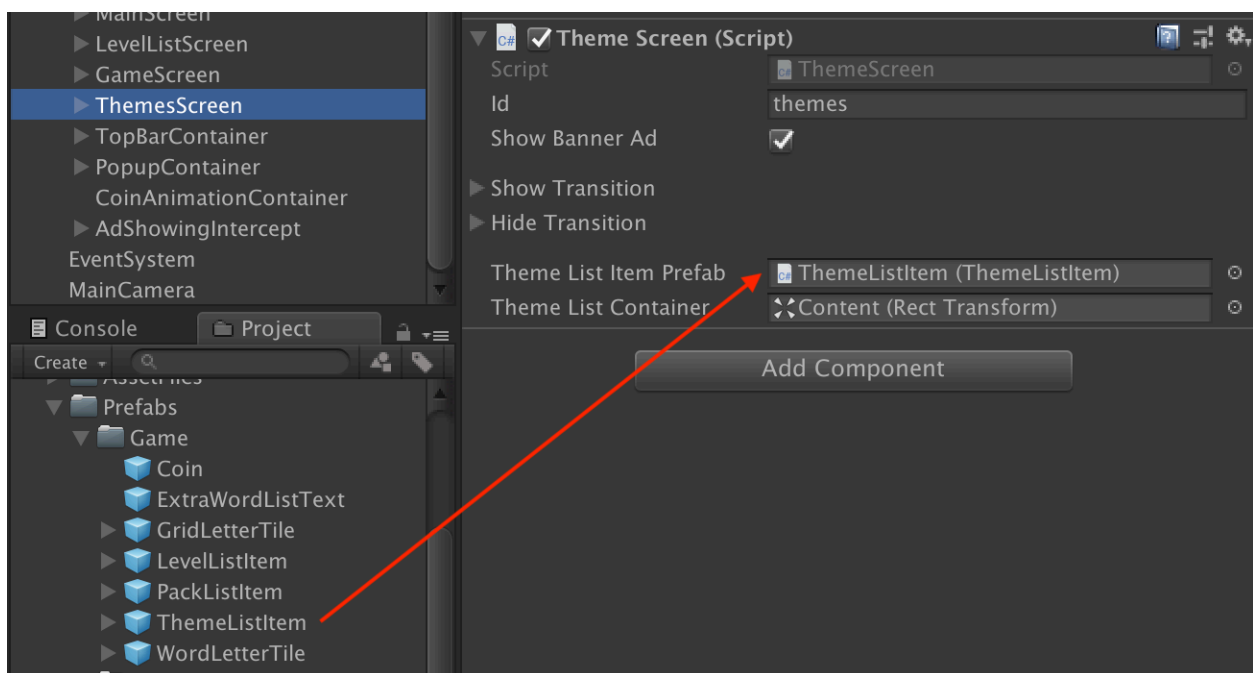
The **LevelListScreen** is responsible for setting up the ObjectPool which is used by individual PackListItems to instantiate copies of the **Level List Item Prefab**. The LevelListItem in the Prefabs folder is the prefab used in the asset:



Theme List Item



The **ThemesScreen** is responsible for instantiating the theme list items. The **Theme List Item Prefab** is the prefab that is instantiated for each Theme set in the ThemeManager. The ThemeListItem in the Prefabs folder is the prefab used in the asset:



The Sprite used as the image for the theme list item is set on the Theme in the ThemeManager:

