# **SPIN BREAKOUT**

**USER GUIDE** 

We strive to provide the best service as we can, if you have any questions or suggestions, please contact us!

Thank you!

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#### 1 INTRODUCTION



Classic Breakout with a twist! Tap to change the moving direction of the paddle and destroy as many bricks as possible. How long can you survive?

This game is ready for release out-of-the-box. Everything just works. It is also flexible and customizable. Some highlights:

- Addictive one-touch gameplay inspired by classic Breakout game
- Daily reward system for better retention
- Easy to customize.
- Free-to-use assets (fonts, sounds, music, model, etc.)
- Optimized for mobile

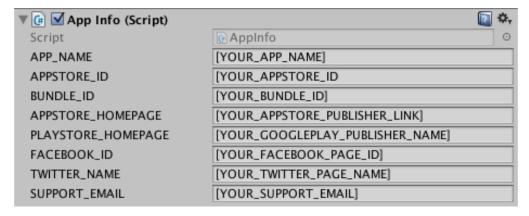
Most importantly, when equipped with the **Easy Mobile** plugin, this template can form a truly full-featured game that is ready for release. Easy Mobile is a comprehensive, cross-platform package that provides most of desired features of mobile games:

- Support for AdColony, AdMob, Chartboost, Heyzap and UnityAds
- In-app purchasing
- Leaderboards and achievements
- Recording gameplay and exporting GIF images
- Sharing to social networks
- Push notification using OneSignal service
- Native rating request popup (rate my app)

#### **2 GETTING STARTED**

# 2.1 Enter app information

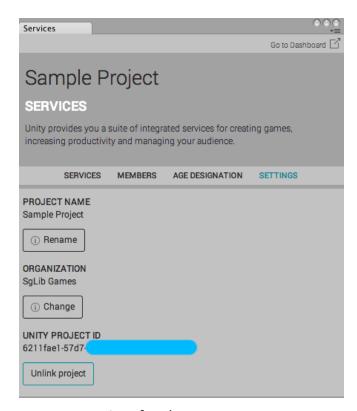
The project contains a game object called AppInfo where you can fill in important app-related metadata like AppStore Id and Bundle Id. These values will be used for features like Rate Us button and opening Facebook or Twitter page.



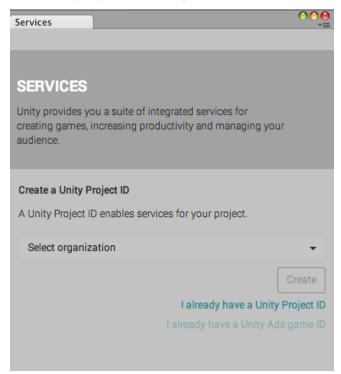
# 2.2 Link the game to your Unity project

When developing this template, we normally need to link it to our own Unity project for testing, therefore you may need to unlink it from our project and link it to your own one, if you're going to use Unity services (e.g. if you want to enable premium features of this template, you'll need to use Unity IAP service). To unlink the project:

- Select Window -> Unity Services
- Select SETTINGS tab
- Click Unlink Project button



Now you can create a new project for the game.



Now you game is linked to your own Unity project and is ready to use Unity

services.

#### 3 TEMPLATE CUSTOMIZATION

# 3.1 Gameplay tweaking

GameManager component which is attached to a game object also named GameManager in the hierarchy.



You can tweak the gameplay by modifying following variables:

• TargetFrameRate: the target frame rate for the game, which should be at least 60fps for games requiring smooth, fast motion.

## 3.2 Player Controller

At this game, player of us are the ball which be shoot by brick break out.

With PlayerController script which contained in Player object of hierarchy TAB, you will control about move speed or break damage whenever ball collision with brick tile.



- *MoveForce*: this value allow you control about move speed of player. You can increase or decrease to fit if you want.
- *BreakDamage*: Whenever ball collision with brick tile, it will decrease number of brick tile equal amount. This is value for that amount.

# 3.3 Circle breakout manage



This object is called circle breakout. It will be rotate throughout game time. It will be contain brick break out to reflect whenever ball-player collision with it.

The script is assigned for this object is called Circle Break Control.

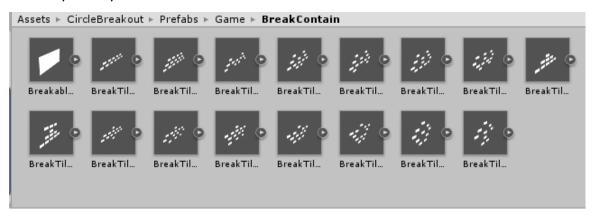


- AngularSpeed: this value allow you control about angular speed of this object.
- *TurnDirection*: If you want this object turn around follow clockwise or counter-clockwise, you will change this property.

#### 3.4 Brick tile contain custom

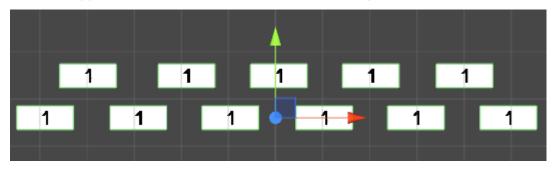
All brick tiles are contained by brick tile contain. This game created 15 brick tiles contain. So, you can create new brick tile contain if you want.

First, you will observe one other brick tile contain which contained in "Prefab/Game/BreakContain":



You can drag one into current scene to observe how way to created it.

Ex: I was dragged one in to scene follow as under image:



What you see at above image is about brick tiles which have got rectangle shape and contain number is 1. The brick contain is the object which contain brick tiles.

You can create brick tiles in it. After you had completed drag, you will custom number for every brick if you want. If you do nothing custom, it will have got default value is 1.

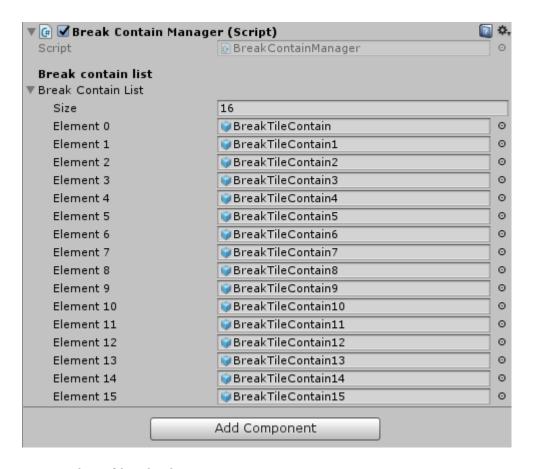
To custom every brick in brick contain, you need click brick is contained in it.



At this component, you can tweak:

- *IsRandomNumber*: this property will decide to your control. If you want to set number for brick tile by hand, you will uncheck it. Otherwise, you check it if you want to set number follow random automatically.
- SetNumberByHand: this value will be assigned for number of brick tile if you was unchecked IsRandomNumber.
- MaxRangeNumber: this value will be random range from 1 to it. Then, new value which have just spawned, it will be assign for number of brick tile. This value only active if you was checked IsRandomNumber.

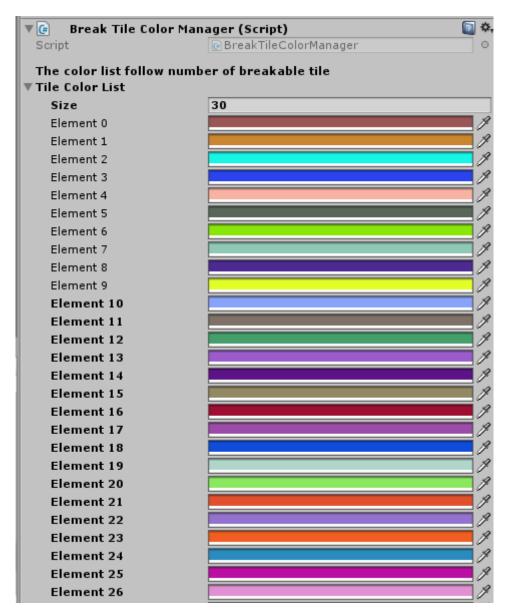
Finally, after you have completed all above stages, you will have a brick contain object. Then, you will drag it into prefab for BreakContain. Next, you need drag it from prefab into BreakContainManager component in object also named BreakContainManager of hierarchy TAB.



# 3.5 Manage color of brick tile

You can tweak about color of the number of brick tile. Because of the color of brick tile is different from each other, you need to control color of them.

You will control it (manage color) in TileColorManager object. You will see under component in it:



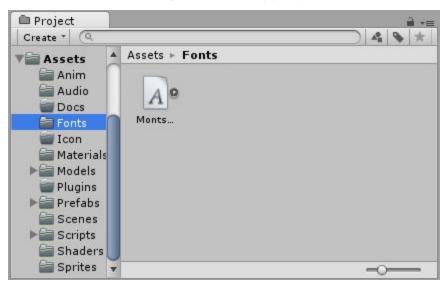
This component has got only one property is list of brick tiles. You can input size for it, then it will random color list follow automatically way. Next, if you want to change for at another index in this list, you can click and choose color what you like.

# 3.6 Customizing UI

All sprites used in this game (for buttons and other UI components) are located under the *Sprites* folder. You can replace them with your own sprites to modify the UI as you like.

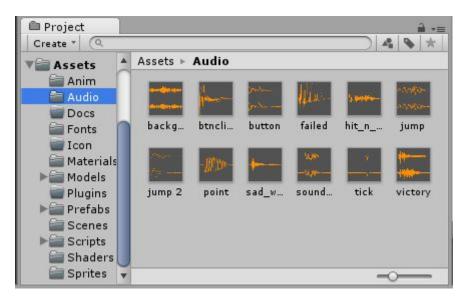


All fonts used in this game are free-to-use in commercial projects. Fonts are located under the *Fonts* folder together with appropriate license files.

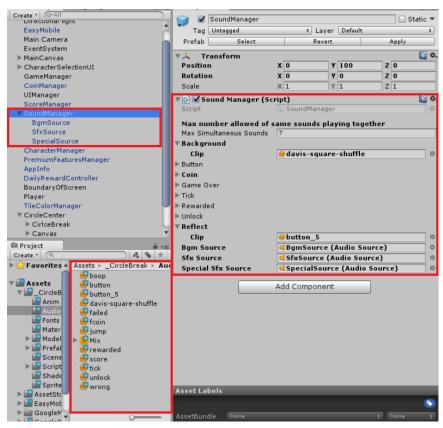


## 3.7 Sounds

All sounds included in this game are free-to-use in commercial projects and are located under the *Audio* folder.



This game features a *SoundManager* class to manage activities in game like playing music or mute/unmute sounds. If you want to replace sounds in this game, simply drag and drop new sounds to appropriate slots in the *SoundManager* component.

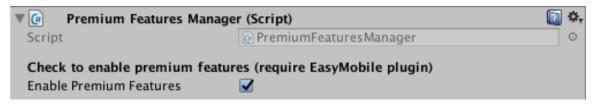


#### 4 ENABLING PREMIUM FEATURES

This section provides a guide on configuring premium features for your game. As these features are implemented using Easy Mobile plugin, this guide is intended to be used alongside Easy Mobile's official user guide. Therefore, it is strongly recommended that you also read through that guide to familiarize yourself with the plugin. You can access the online user guide from menu *Window > Easy Mobile > Online Documentation* (after Easy Mobile is imported to the project).

# 4.1 Before You Begin

- In the Main scene's hierarchy, there's an object named PremiumFeaturesManager which contains all the relevant components from which you can configure how premium features behave in your game.
- Make sure the *EnablePremiumFeatures* option in the *PremiumFeaturesController* object is checked.

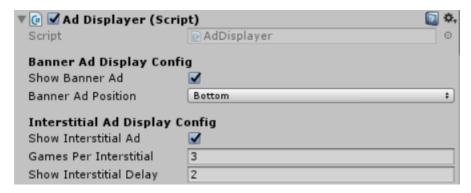


- Make sure to add the EasyMobile prefab to the Main scene, you can find the prefab at folder Assets/EasyMobile. It is necessary for the plugin to function properly.
- The settings interface of Easy Mobile can be opened via menu Window >
   Easy Mobile > Settings, this is the only place to go to configure this plugin.
- Note that you won't need to write a single line of integration code for Easy Mobile to work, as the integration was done beforehand, you only need to configure the plugin in the editor (that means you can ignore all the Scripting sections in Easy Mobile user guide if you wish to).

#### 4.2 Advertising

## 4.2.1 Template-specific setup

The PremiumFeatureManager object contains a component named *AdDisplayer* which is responsible for all ads displaying activities in the game. There you can configure how ads should be served in your game.



Banner ads are configured in the Banner Ad Display Config section.

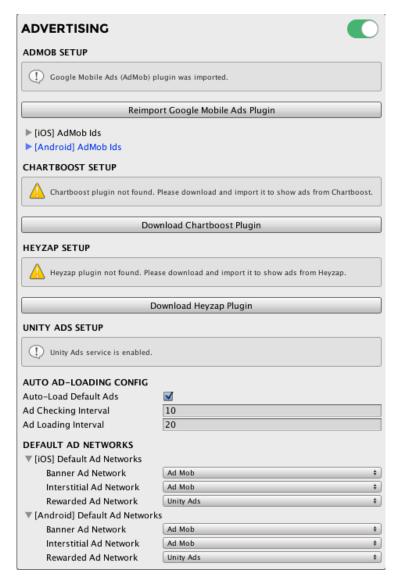
- Show Banner Ad: whether to show a banner ad in game
- Banner Ad Position: which position the banner should be placed

Interstitial ads are configured in the Interstitial Ad Display Config section.

- Show interstitial ad: whether to show interstitial ads when game over
- Games Per Interstitial: how many games to be played before showing ad
- Show Interstitial Delay: how many seconds after game over that ad is shown

# 4.2.2 Easy Mobile setup

Open Easy Mobile's settings interface to start configuring its Advertising module (see its user guide for more information). With Easy Mobile you'll have support for AdColony, AdMob, Chartboost, Heyzap (with mediation) and Unity Ads. You can use multiple ad networks at once and have different configurations for iOS and Android. Below is the settings interface of the Advertising module.



You can setup the module in just a few steps as below. Please see the Advertising section in Easy Mobile's user guide for detailed instructions on each step.

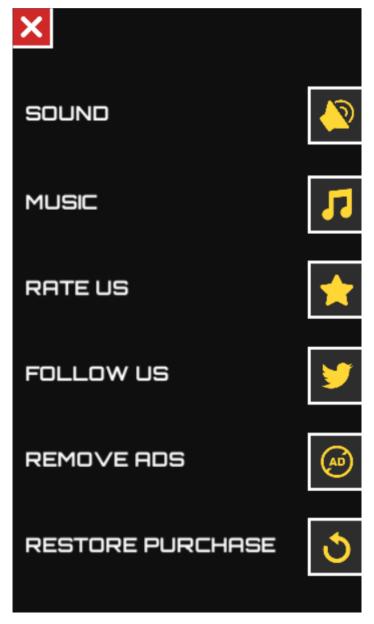
- a. Setup the ad networks you want to use, including importing the required plugins, please see Easy Mobile user guide for more information
- b. Enable auto ad-loading feature: simply leave the *Auto-Load Default Ads* option as checked and other parameters as default, the plugin will automatically load ads in the background
- c. Select default ad networks for each platform: choose your preferred network for each type of ad on each platform

That's it! Now your game is ready for showing ads!

# 4.3 In-App Purchasing

# 4.3.1 Template-specific setup

The built-in in-app purchases of this template include a *Remove Ads* button. There's also one *Restore Purchase* button as required on iOS.



The PremiumFeaturesManager object contains a component named InAppPurchaser which manages all the in-app purchasing activities in this game.



# 4.3.2 Easy Mobile setup

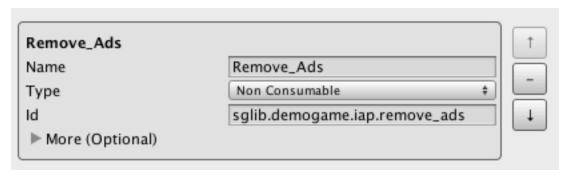
Setting up the In-App Purchasing module of Easy Mobile includes the following steps. Please see the In-App Purchasing section in Easy Mobile's user guide for detailed instructions on each step.

- a. Enable Unity In-App Purchasing service
- b. Select target store if you're on Android
- c. Enable receipt validation if you wish
- d. Declare the products

Below is the settings interface of the In-App Purchasing module of Easy Mobile.



Note that the products declared with Easy Mobile must have names that match with the ones you have in the aforementioned *InAppPurchaser* component. Also note that *Remove Ads* is a non-consumable product.



# 4.3.3 Create the products for targeted stores

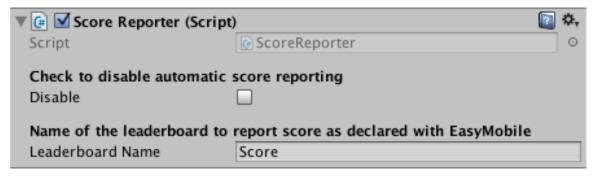
That last step in configuring the in-app purchasing feature is to create products for your targeted stores (e.g. Google Play and Apple App Store). Make sure the product ID, product type and price match the ones you have in your game.

#### 4.4 Game Service

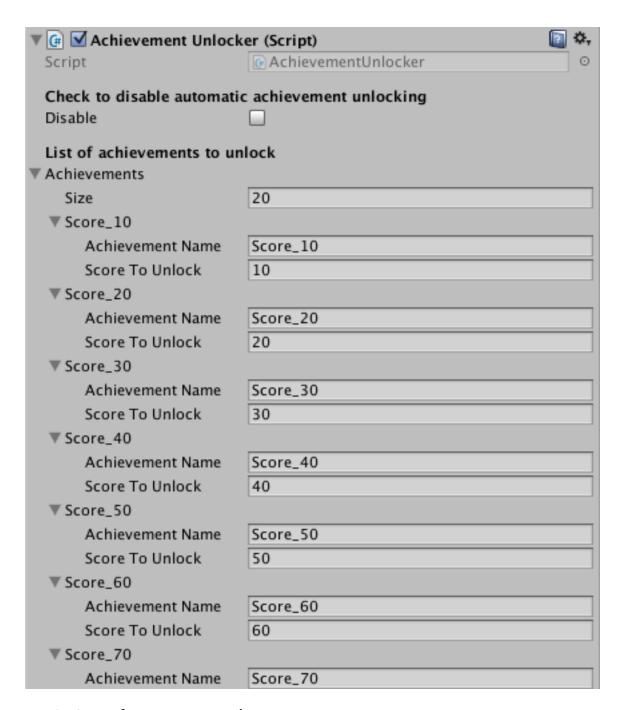
#### 4.4.1 Template-specific setup

This template has a built-in leaderboard for ranking users' scores, and many achievements. It works with Game Center (iOS) and Google Play Game Services (Android).

User's score will be submitted automatically when game over by a component named *ScoreReporter*, which is also attached to PremiumFeaturesManager object. There you can change the leaderboard name or even disable automatic score reporting altogether.



Achievements will be unlocked automatically when the user reaches a certain score. The achievement unlocking is handled by the component named *AutoAchievementUnlocker*. In this component, you can modify existing achievements and add or remove achievements. You can also disable the automatic achievement unlocking feature if you wish.



## 4.4.2 Setup for your targeted stores

The next step is to create the required leaderboard and achievements for your targeted stores (i.e. in iTunes Connect for App Store and the Developer Console for Google Play). Take note of their IDs for use in the next step.

# 4.4.3 Easy Mobile setup

Setting up the Game Service module of Easy Mobile includes the following steps. Please see the Game Service section in Easy Mobile's user guide for detailed instructions on each step.

- a. Import Google Play Games plugin for Unity and setup it if you're targeting Android
- b. Enable the automatic initialization feature: just leave everything under the **AUTO-INIT CONFIG** section as default
- c. Declare the leaderboards and achievements

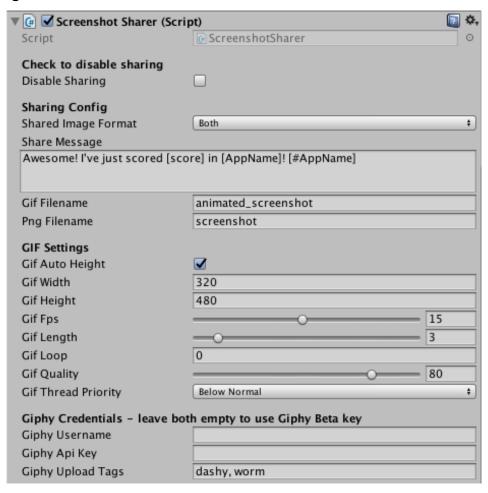
Below is the settings interface of the Game Service module of Easy Mobile.



Note that you must declare the leaderboard and achievements with the same names as the ones you have in the *AutoScoreReporter* and *AutoAchievementUnlocker* components. Also their IDs must match the ones you created in iTunes Connect and Google Play Developer Console.

## 4.5 Native Sharing

This template has a Share button that allows the user to share a screenshot of the gameplay (in animated GIF or static PNG format) to social networks using the native sharing functionality. This activity is managed by a component named *ScreenshotSharer*, which is also attached to the PremiumFeaturesManager object. When a new game starts, this component will setup and start a recorder to record the screen content, and stop the recorder when the game ends. The recorder automatically stores a few last seconds of the recording, and discards the rest. The recorded clip will then be exported to a GIF image, then uploaded to <u>Giphy</u>, and finally its URL can be shared and played automatically on major social networks including Facebook and Twitter.



Here you can configure the sharing feature.

- Disable Sharing: disable this feature
- Share Image Format: you can share GIF or PNG image, or both
- Share Message: the default sharing message, note that [score] will be automatically replaced by actual score, and [AppName] will be replaced by the app name declared in AppInfo
- Gif Filename: filename to store the generated GIF image
- Png Filename: filename to store the captured PNG image

In the GIF Settings section, you can configure the generation of the GIF image.

- Gif Auto Height: automatically calculate the image height based on the specified width and the screen aspect ratio
- Gif Width: the image width
- Gif Height: the image height, will be overwritten if GifAutoHeight is enabled
- Gif Fps: frame per second of the GIF image
- Gif Length: the length of the GIF in seconds, as mentioned earlier, the recorder only keeps this many seconds of the recording, and discards old content
- Gif Loop: looping mode of the GIF; 0 means loop indefinitely, -1 means no loop, > 0 means loop a set number of times
- Gif Quality: quality setting value in range [1,100], bigger values mean better quality but slightly longer generation time; 80 is generally a good value in terms of quality-time balance
- Gif Thread Priority: the priority of the GIF generation thread

You can also control the Giphy uploading activity with the following parameters:

- Giphy Username & Giphy Api Key: provide these values if you want to upload the GIF image to your own Giphy channel; otherwise leave them empty to use the Giphy beta key
- Giphy Upload Tags: comma-delimited list of tags of the uploaded image

Note that you need to enable the *External Write Permission* for this feature to function properly on Android. Please see the Native Sharing section in Easy Mobile user guide for detailed instructions on doing that.

#### 4.6 Rating Request

This template employs the Rating Request feature of Easy Mobile, to show a ratemy-app popup when game over, if some certain conditions are met. The Rating Request feature of Easy Mobile allows us to show the built-in rating prompt on iOS (10.3+) and a native rating popup on Android. Please see the Rating Request section in Easy Mobile user guide for instructions on configuring the appearance and behavior of this popup.

You can set the conditions to show this rating popup using the *RatingRequester* component of the PremiumFeaturesManager object.



 Request Mode: whether to show the rating popup based on the number of games played (Game Based mode), or based on the time since the installation of the app (Time Based mode)

If you select *Game Based* mode, pay attention to these two variables:

- Games Played After Install: how many games should be played since the installation before a rating popup is shown
- Game Played Between Requests: how many games should be played since the last time a rating popup is shown (in case it was dismissed by the user) that a new popup can be shown

If you select *Time Based* mode, adjust these two variables:

- Days After Install: how many days after the installation that a rating popup is shown
- Days Between Requests: how many days since the last time a rating popup is shown that a new one can be shown

#### 4.7 Push notification

Enabling push notification for your app using OneSignal service includes following steps. Please see the Notification section in Easy Mobile user guide for detailed instructions on each step.

- Open the Notification tab in Easy Mobile's settings interface
- Import OneSignal plugin
- Prepare your app for push notifications, e.g. enable the Push Notification capability for the provisioning profile on iOS (please see Easy Mobile user guide as well as OneSignal documentation for detailed instructions).
- Add your app to OneSignal dashboard
- Enter your app ID to Easy Mobile settings in Unity

Below is the settings interface of the Notification module of Easy Mobile after importing OneSignal plugin and you can enter your app ID.



That's it! You've just finished implemented premium features for your game!

THANK YOU AND GOOD LUCK WITH YOUR GAMES!