Downhill Skiing Modding Guide

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Product Overview

'Downhill Skiing' is a mechanics clone of the game 'Chilly Snow'.

It is designed to give you a starting point for Modelling and Improving the original game mechanic.

Features Summary

- Four Art Themes Selected by changing one variable.
- Full Interfaces: Splash, Home, About, Play, Pause, Game Over, Store.
- Ads: Applovin or Appodeal: banner and interstitial ads.
- **Social:** Twitter, Rating, Sharing (Activity Popup).
- Additional Feature Hooks: Facebook, Achievements, Leaderboards, and Store.

This is a complete game, ready for skinning and improving. It is perfect for learning and for making money.

License

Unless otherwise explicitly stated in your purchase agreement,

- You may use this template to learn from on your own.
- You may use this template to make a single compiled game and distribute that game on as many app stores as you wish, including but not limited to:
 - o Android Binary on Google Play, ...
 - o iOS Binary on Apple App Store
 - o Windows, OSX, or HTML5 on Itch.io, Game Jolt, ...
 - HTML5 on Armor Games, Kongregate, ...
 - o etc.
- You may not (unless your purchase license exclusively states otherwise) make multiple games without buying additional copies of the template.
- You may not distribute any part of this template and its content to a third party, except in a compiled game as stated above.
- You may not use this template in a classroom setting without express permission. (See 'Contact Info & Help' Below)

Features

This template contains these features:

- Detailed Guide You're reading it now. It provides steps on how to modify the game, framework, as well as how to
 - How To Get Started with Corona
 - Create Twitter App
 - Get IDs and License Keys
 - How to build for release on Google Play and the Apple Store
 - 0
- Game Code Clone of "Chilly Snow".
 - Daytime mode ONLY.
- Free Art 4 FREE example art themes to make it easy to re-skin and modify the game.
- Free Sounds Basic sounds make with sfxr/bfxr.
- Full Interfaces -
 - Splash Screen
 - Home (Main Menu)
 - Play Screen
 - About Screen
- Ads Banners, Interstitials, and Rewarded Videos via AppLovin or Appodeal.
- In-App-Purchase (IAP) of NoAds option.
- **Twitter** Pre-coded twitter support.
- (Activity Popup) Sharing Pre-coded Activity Popup code for iOS builds.
- Rating Pre-coded rating code for Android, old iOS and iOS > 10.3.
- Extras Hooks Additional hooks to launch Facebook, Achievements, Leaderboards, and an IAP Shop.
 - Note: These are just launchers and include little to no functional code for these features.
- **GDPR Ready** This template has code to help you request permission from the player and to then enable/disable GDPR consent settings for both Ad providers.

Getting Started With Corona

While I would like to assume you already have Corona installed on your machine and know the basics, I am also (secretly) hoping you are new to Corona and part of the reason you are using it is because of this product.

Note: The following pages contain a summary of the most important steps, but for a much more detailed walk through please visit Corona's site here: https://coronalabs.com/learn/.

First steps

If you are new or just need a little help getting started, please follow these steps:

- 1. Create an FREE account at Corona Labs: https://coronalabs.com/
- Download the latest DAILY build, not the public build: https://developer.coronalabs.com/downloads/daily-builds/
 - Tip: The DAILY build is the most recent version of Corona today, while public builds are stable, but can be much older.
 - To get the build, go to the link above then find the top row of releases and download the *.msi file for Windows or *.dmg file for OS X
- 3. Install Corona on your machine.
- 4. Run it for the first time, and log in with your account details.
 - You will only need to do this once.

Testing The Installation

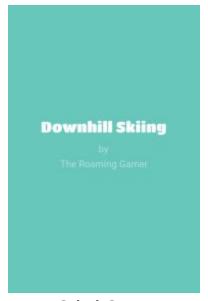
- 1. (If you quit) Start Corona again.
- 2. Examine the Launcher dialog and find the 'Samples' link. Click it.
- 3. Choose any sample and run it.
- 4. Try a few of these to verify your install is working.

If you cannot run the samples, please visit the Corona site here for additional help:

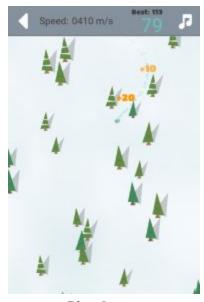
https://docs.coronalabs.com/guide/programming/intro/index.html#systemregs

Run This Template

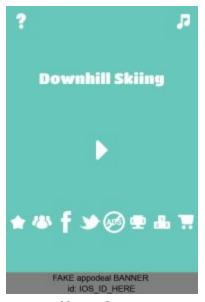
Now that you have Corona installed and running, please run Corona once more and open the template by going to the **template**/ folder and opening **main.lua**. The game will launch and you should see these scenes:



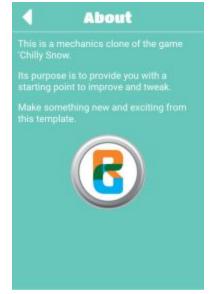
Splash Scene



Play Scene



Home Scene



About Scene

Now, you are ready to modify the template. Simply follow the directions in this guide and enjoy!

Modifying The Game

While it is expected that you have some understanding of Corona and Lua, this guide is meant to help you along as you make this game your own.

The following is a terse guide on how to modify the various parts of template.

Selecting Different Themes

Changing themes is as simple as changing one line of code.

Using your favorite code editor, open the file scripts/common.lua and locate this line:

```
common.theme = "clone"
-- casual flat medieval prototype
```

Then replace the string with any of these:

- casual
- flat
- medieval
- prototype

Reload the game (in the simulator) and viola, a new theme is selected!

Modifying Game Art

As was noted above, this template comes with four art sets. Most of the variance in these sets is in regards to the buttons. Aside from that, all four themes have the same base content textures (referring to flat, but this statement applies to all four themes):

- images/flat/background.png Background image used in all interfaces except play.
- images/flat/circle.png Used for player shadow.
- images/flat/player.png The player image.
- images/flat/snow.png A single seamlessly tiled image used for the three (3) snow panes.
- images/flat/background.png Background image used in all interfaces except play.
- images/flat/sparkle.png Not used, but ideal for adding additional styles of particle trail.

Modifying Button Art and Code

The button artwork and button definition code is kept in the **presets**/ folder under the various theme-named subfolders.

For example, if we look in the **presets/flat/** folder we will find:

- **images/** This is the folder with all of the artwork used when this theme is turned on.
- images2x/ These are the @2x images. If you choose to the Dynamic Image Selection (https://docs.coronalabs.com/guide/basics/configSettings/index.html#dynamicimages) feature of Corona:
 - a. Open **config.lua** and uncomment the 'Dynamic Image Selection' section.
 - b. Copy all of the presets/images2x/<theme name>/* files into: presets/images/<theme name>/
- **presets.lua** This file contains the button preset definitions. Please see the SSK2 docs for how to modify them:
 - a. https://roaminggamer.github.io/RGDocs/pages/SSK2/libraries/easy_interfaces/ #making-button-presets
 - b. https://roaminggamer.github.io/RGDocs/pages/SSK2/libraries/easy_interfaces/ #button-instances

Modifying Game Code

All of the core game code is located in the **scripts**/ folder. These are the files you need to modify:

- scripts/common.lua Go here to select a theme, and to set some common.* flags & visual settings.
 - Theme settings See 'Selecting Different Themes' above.
 - (Game) Flags Do not change these. They are maintained by the code in scripts/game.lua.
 - Visual Settings Go all the way to the end of the file to adjust corner offsets if you need to. You should only need to do this if you tweak the size of buttons and then only for iPhone X and other cases with a 'notch'.
 - The remaining bulk of this file is dedicated to framework 'extra' settings. See 'Modifying Framework Extra Features' below.
- scripts/game.lua This is the CORE game file. It contains the entire implementations of the gameplay code. <u>The code is thoroughly commented</u>. This module also calls function in:
 - o player.lua The player creation module.
 - This module in turn calls functions in particleTrail.lua.
 - o level.lua Creates the trees.
- scripts/helpers.lua This is a module containing 'utility' style code.
- scripts/init.lua This file is called from main.lua and handles the initialization of your games:
 - Button presets You should not make any changes here. If you do want to change the button art and button settings, please see 'Modifying Button Art and Code' above.

- Persistent Settings score, best score, sound enable, etc.
- Sound See the SSK2 docs for how to modify this code:
 https://roaminggamer.github.io/RGDocs/pages/SSK2/libraries/soundMgr/
- Ads and IAP Extras See 'Modifying Framework Extra Features' below.
- scripts/ ⇒ easyAds.lua, easyIAP.lua, iap_badger.lua, and utils.lua These are all related
 to framework extras and covered in a separate guide. See 'Modifying Framework Extra
 Features' below.

Modifying composer.* Scenes

This game users composer.* to handle scene management. The scenes provided with this game are:

- scenes/splash.lua The Splash screen showing the game title and your game company info.
- scenes/home.lua This is the home/main menu scene.
 - When the player 'dies', this scene is asked to show statistics from the last ski run.
- scenes/play.lua This is thin scene that uses the code in scripts/game.lua to create and run the gameplay code.
- scenes/about.lua The credits screen and where the user goes to 'restore' IAP if that feature is enabled.
- scenes/_template.lua This is a blank starter scene in case you want to add more interfaces. Just copy it, rename the file copy, and start coding.

The About Scene

The about scene is set up with some default content and layout rules. To change the 'about' images and text All you have to do is edit the about table at the top of the file.

As you will find the table has this form:

```
local about = {
    { text = "some text... \n\n" },
    { text = "more text" },
    { image = "an image path", width = <a width>, height = <a height>},
},
```

You could specify your own about with this text:

These are some notes about the game.

```
Some credits go here
```

More credits go here

```
... and so on ...
```

, by writing this code:

```
local about = {
    { text = "These are some notes about the game.\n\n" },
    { text = "Some credits go here\n" },
    { text = "more credits go here\n" },
    { text = "... and so on ..." },
}
```

You can add an image like this:

```
{ image = "images/rg256.png" },
```

The resulting image will be the full size image. Alternately you can force a size like this:

```
{ image = "images/rg256.png", width = 32, height = 32 },
```

Beyond that, you can easily modify the code in this file to make the parser more robust and versatile.

Additional Options and Debug Settings

The game template has these additional options you can modify in scripts/common.lua:

Game Title

```
common.gameTitle = "Downhill Skiing"
```

Enable Steering & Enable Collisions (Debug)

You can temporarily disable steering and or collisions to make the player run directly downhill.

It handy to set both of these to false while adjusting tree generation mechanics and other features that depend on the player moving downhill.

Hit Feedback (Debug)

The template has two options to get feedback on the way the hit mechanisms work:

```
common.showHitSemiCircle = false
```

Setting this to true will render the 'hit area' for the trees.

```
common.showHitTestTrees = false
```

Setting this to true will temporarily highlight that are being tested for a 'hit'.

```
common.showHitTestTrees = false
```

Setting this to true will temporarily highlight that are being tested for a 'hit'.

Snow Feedback (Debug)

```
common.highlightSnowPanes = false
```

Setting this to true will colorize the three snow 'panes' so you can verify they are swapping in the right order.

Tree Creation Feedback (Debug)

```
common.printTreesCreated = false
```

Setting this to true will cause the tree generation code to print a message to the console showing how many trees were created on each 'tree spawning' pass at at what time it occured.

Modifying The Framework

In addition to the game content, this product comes with a complete framework, that includes these **extra** features (in alphabetical order):

- Ads Banner and/or Interstitial and/or Rewarded video ads via Appodeal or Applovin.
- In-App-Purchases (IAP) The framework uses the (most excellent) FREE IAP Badger and a thin custom layer to make adding and supporting IAP just a few lines of easy to read code.
- Rating The framework supports rating on Android, and iOS. As well, for iOS 10.3 it uses
 the latest FREE rating popup plugin.
- Sharing (iOS ONLY) On iOS you can give your users access to the activity pop-up so
 then can share their thoughts and feelings about your game with whatever social media
 apps they may have installed.
- Twitter Lastly, the framework uses Jason Schroeder's PAID Twitter plugin to enable direct tweets via a 'Twitter App'.

The template also provides placeholder hooks if you want to add these features:

- Achievements & Leaderboards
- Facebook
- In-App-Purchase Shop

Important Note: By default, all <u>extra</u> features are DISABLED. See the following pages for instructions on how to enable and configure these features.

Ads

Make the following changes to enable and configure ads.

scripts/common.lua - Ad Settings

Enable Feature

```
common.extras.ads enabled = true
```

Select Provider

```
common.extras.ads_provider= "applovin"
OR
common.extras.ads provider= "appodeal"
```

Enable Interstitials

You may optionally enable interstitial ads.

```
common.extras.ads show interstitials = true
```

Set Interstitial Frequency

An interstitial ad is shown every Nth player death. In the code below, and ad is shown every 5th death. (You can ignore this setting if you chose not to enable interstitials.)

```
common.extras.ads interstitial frequency = 5
```

Choose Whether To Request GDPR Permission

By default, both ad networks are not given GDPR permission. However, if you want explicitly request permission you may enable this feature, by setting the following flag to true.

```
common.extras.ads request gdpr permission = true
```

Edit Provider Helper

Depending on the provider you have chosen to use, edit either of these files:

- scripts/ads/applovinAds.lua
- scripts/ads/appodealAds.lua

AppLovin Helper

Locate this marker:

, then read the comments in the code to configure the ad helper. The following is a summary of the changes you will make in this section:

- fakeAds If you want to use the 'fake ads' feature in the simulator leave this line as it is, otherwise, comment it out.
- **testMode** Leave this as true until you are ready to publish, the set it to false.
- **verboseLogging** Set this to true if you want extra output from the AppLovin plugin.
- androidID If you are publishing to Android, get a Android Ad ID from your AppLovin console and put it here.
- iosID If you are publishing to Android, get a Android Ad ID from your AppLovin console and put it here.
- initDelay You should leave this alone, unless you have dug into the code and understand what it does.
- **verbose** Set this to true to enable detailed output from the ad listener.

Use Default GDPR Behavior

Please note, if you want the AppLovin plugin use its default behavior for GDPR, please find this code:

```
-- DO NOT EDIT THIS UNLESS YOU ARE AN EXPERT:
if( ssk.persist.get( "settings.json", "has_gdpr_consent" ) ) then

And modify it to read:
-- DO NOT EDIT THIS UNLESS YOU ARE AN EXPERT:
if( false and ssk.persist.get( "settings.json", "has_gdpr_consent" ) ) then
```

Appodeal Helper

Locate this marker:

```
-- BEGIN EDITING HERE * BEGIN EDITING HERE * BEGIN EDITING HERE
```

, then read the comments in the code to configure the ad helper. The following is a summary of the changes you will make in this section:

- **fakeAds** If you want to use the 'fake ads' feature in the simulator leave this line as it is, otherwise, comment it out.
- **testMode** Leave this as true until you are ready to publish, the set it to false.
- supporteAdTypes This table lets you limit the ads Appodeal will serve. Right now it is correctly set for the way the template is configured to work.
- disableAutoCacheForAdTypes This feature is commented out, but if you want you can
 uncomment it and modify it to disable caching for specific ad types. This is not a good
 idea unless you want to take direct charge of when ads are loaded.
- **isCOPPACompliant** This is set to false by default, but if your game is COPPA compliant, set this to true to get ads more suitable for children.
- androidID If you are publishing to Android, get a Android Ad ID from your Appodeal console and put it here.
- iosID If you are publishing to Android, get a Android Ad ID from your Appodeal console and put it here.
- **initDelay** You should leave this alone, unless you have dug into the code and understand what it does.
- **verbose** Set this to true to enable detailed output from the ad listener.

Use Default GDPR Behavior

Please note, if you want the Appodeal plugin to do all the work regarding GDPR for you, please locate this line of code in the helper and comment it out:

```
--lparams.hasUserConsent = ssk.persist.get( "settings.json",
"has_gdpr_consent" )
```

build.settings - Ad Settings

Lastly, you should edit the build.settings file based on your choice of provider.

AppLovin

```
Uncomment this plugin:
```

```
["plugin.applovin"] = { publisherId = "com.coronalabs" },
```

Uncomment this iOS line:

```
NSAppTransportSecurity = { NSAllowsArbitraryLoads = true },
```

Uncomment these Android lines:

```
"android.permission.INTERNET",
"android.permission.ACCESS_NETWORK_STATE",
"android.permission.WRITE EXTERNAL STORAGE",
```

Appodeal

Uncomment this plugin:

```
['plugin.appodeal.beta.base'] = { publisherId = 'com.coronalabs' },
```

Optionally, uncomment these additional plugins:

```
----[[
['plugin.appodeal.beta.AdColony'] ={ publisherId = 'com.coronalabs'
},
['plugin.appodeal.beta.AmazonAds'] ={ publisherId = 'com.coronalabs'
},
...
```

Uncomment this iOS line:

```
NSAppTransportSecurity = { NSAllowsArbitraryLoads = true },
```

Uncomment these Android lines:

```
"android.permission.INTERNET",
```

Optionally, uncomment these Android lines:

```
"android.permission.GET ACCOUNTS",
```

[&]quot;android.permission.ACCESS NETWORK STATE",

[&]quot;android.permission.WRITE EXTERNAL STORAGE",

[&]quot;android.permission.ACCESS COARSE LOCATION",

[&]quot;android.permission.ACCESS FINE LOCATION",

In-App-Purchases

Make the following changes to enable and configure In-App-Purchases.

scripts/common.lua - IAP Settings

Enable Feature

```
common.extras.iap enabled = true
```

Set Test Mode

While testing in the simulator and on device it is helpful to set this variable to true, but remember to set it to false when you release

```
common.extras.iap_test_mode = true
```

Disable Inventory Loading

During testing, you may want to disable inventory loading. With this feature set to true every restart acts as if none of the IAP items was purchased yet.

Note: If you use this feature and the framework behaves as if an item was purchased you may need to delete the contents of the DocumentsDirectory to reset the state of the app.

```
common.extras.iap do not load inventory = true
```

Edit IAP Helper

While the framework uses IAP Badger to do the heavy lifting, it includes module that adds a layer of code on top of the badger. This module can be found in the file:

scripts/ads/easyIAP.lua





, then read the comments in the code to configure the IAPhelper. The following is a summary of the changes you will make in this section:

- salt- Type in some random string to replace the default value. This is used to seed the encrypted IAP purchase tracking file on the device.
- androidID If you are publishing to Android, go to your Google Play app page and add a 'NoAds' IAP item. Then grab the ID and place it here.
- iosID If you are publishing to Android, go to your iTunes Connect app page and add a 'NoAds' IAP item. Then grab the ID and place it here.

You may dig into the helper further, but you don't need to.

build.settings - IAP Settings

Next, you should edit the build.settings file.

If you are publishing to Google, then uncomment this plugin:

```
["plugin.google.iap.v3"] = { publisherId = "com.coronalabs",
supportedPlatforms = { android = true, }, },
```

If you are publishing to Apple, uncomment this iOS line:

```
NSAppTransportSecurity = { NSAllowsArbitraryLoads = true },
```

If you are publishing to Google Play, then uncomment these Android lines:

```
"android.permission.INTERNET",
"com.android.vending.BILLING",
```

config.lua - IAP Settings

Lastly, if you are publishing on the Google Play store, you should acquire a license key and place it in the **config.lua** file.

If you are publishing to Google, then uncomment this plugin:

```
license = {
    google = {
       key = "YOUR_KEY",
    },
},
```

Replace YOUR KEY with the (long) license key string.

Tip: If you do not know how to get a license key, please see the chapter 'Getting A Google Play IAP License Key' below.

Rating

Make the following changes to enable and configure rating.

scripts/common.lua - Ratings Settings

Enable Feature

```
common.extras.rating enabled = true
```

Edit Rating Helper

Next, edit the script: scripts/extras/rating.lua

Locate the beginning of the module

, then examine the code closely. Tweak it as desired:

- **packageID** If you are publishing to Android, get your App's packageID and replace the generic one provided in the code.
 - Tip: If you don't know how to do this, please see 'Package ID, Bundle ID, and Apple ID ...' below.
- **appleID** If you are publishing to iOS, get your App's numeric appleID and replace the generic one provided in the code.
 - Tip: If you don't know how to do this, please see 'Package ID, Bundle ID, and Apple ID ...' below.
- public.rate() This function does all of the rating work. You should NOT need to edit it.

build.settings - Rating Settings

Lastly, you should edit the build.settings file to enable rating.

If you are publishing to the Apple store, uncomment this plugin:

```
["plugin.reviewPopUp"] = { publisherId = "tech.scotth", },
```

Tip: Be sure you have activated this **FREE** plugin or your code will not build: https://marketplace.coronalabs.com/corona-plugins/review-popup

If you are publishing to the Apple store, uncomment this iOS line:

```
NSAppTransportSecurity = { NSAllowsArbitraryLoads = true },
```

If you are publishing to Google Play, uncomment this Android line:

```
"android.permission.INTERNET",
```

Sharing

Make the following changes to enable and configure sharing.

scripts/common.lua - Sharing Settings

Enable Feature

```
common.extras.sharing enabled = true
```

Edit Sharing Helper

Next, edit the script: scripts/extras/sharing.lua

Locate the beginning of the module:

, then examine the code closely. Tweak it as desired:

- appleID Get your App's numeric appleID and replace the generic one provided in the code.
 - Tip: If you don't know how to do this, please see 'Package ID, Bundle ID, and Apple ID ...' below.
- **public.showActivityDialog()** This function does all of the sharing work. It comes configured with a generic message, but you may want to tweak it a little to make it fit your game better.

build.settings - Sharing Settings

If you are publishing on the Apple store, uncomment this plugin:

```
["CoronaProvider.native.popup.activity"] = { publisherId =
"com.coronalabs" },
```

If you are publishing on the Apple store, uncomment this iOS line:

```
NSAppTransportSecurity = { NSAllowsArbitraryLoads = true },
```

Twitter

Make the following changes to enable and configure twitter.

scripts/common.lua - Twitter Settings

Enable Feature

```
common.extras.twitter enabled = true
```

Edit Twitter Helper

Next, edit the script: scripts/extras/twitter.lua

Locate the beginning of the module:

, then examine the code closely. Tweak it as desired:

- apiKey / apiSecret Get your Twitter App's API Key and Secret and replace the generic ones provided.
 - **Tip:** If you don't know how to do this, please see 'Creating A Twitter App' below.
- hashtag Replace this with a cool hash tag for your game.
- androidURL If you are publishing on Google Play, get the package ID for your game and update this address string.
 - Tip: If you don't know how to do this, please see 'Package ID, Bundle ID, and Apple ID ...' below.
- iosURL- If you are publishing on the Apple store, get the appleID for your game and update this address string.
 - Tip: If you don't know how to do this, please see 'Package ID, Bundle ID, and Apple ID ...' below.
- public.showActivityDialog() This function does all of the tweeting work. It comes
 configured with a generic message, but you may want to tweak it a little to make it fit
 your game better.

build.settings - Twitter Settings

Lastly, you should edit the build.settings file.

Uncomment this plugin:

```
["plugin.twitter"] = { publisherId = "com.jasonschroeder", },
```

Tip: Be sure you have purchased and activated this **PAID** plugin or your code will not build:

https://marketplace.coronalabs.com/corona-plugins/twitter

If you are building for the Apple store, uncomment this iOS line:

```
NSAppTransportSecurity = { NSAllowsArbitraryLoads = true },
```

If you are building for Google Play, uncomment these Android lines:

```
"android.permission.INTERNET",
```

[&]quot;android.permission.ACCESS NETWORK STATE",

Modifying Extras' Button Positions

When you enable the various extra features you will start to see buttons on the home scene.

If you do not like the order of these buttons, you can do the following:

1. Edit the file **scripts/game.lua** and locate statements like this:

```
buttons[#buttons+1] = ...
```

2. Now, just re-order these statements to suit your preferences.

Note: Some of the button creation statements will be in a if-then-else statement.

```
if( ... ) then
  buttons[#buttons+1] = ...
end
```

In such cases, be sure to move the entire statement.

Getting A Google Play IAP License Key

In order to get a license key, you must have set up your Google Play app store page and you must upload binary.

Note: This section assumes you know how to build a release copy of your game for Google Play. If you do not, then take a moment to read 'Building Releases' below.

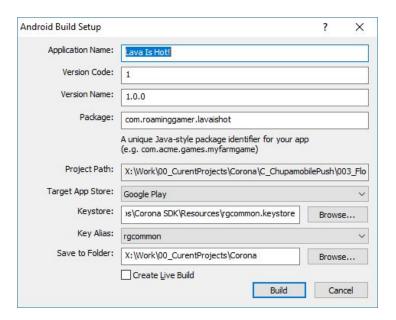
Note 2: This section also assume you have not set up your Google Play app description yet. If you have, you can skip over some of the following steps.

Google requires you to upload a binary before they will provide you with a key. The easiest way to do this it to upload an alpha or beta build of your app.

Just follow these steps:

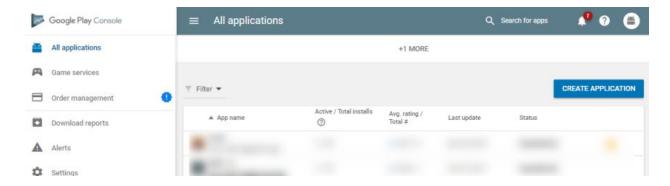
Build Game

Build your game using your production certificate and the correct package ID.



Create App Description On Google Play

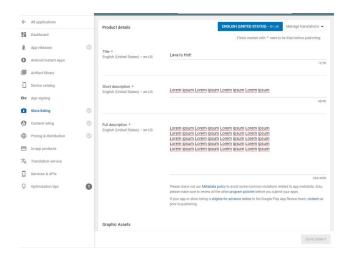
Log in to your Google Play account then click on the 'Create Application' button.



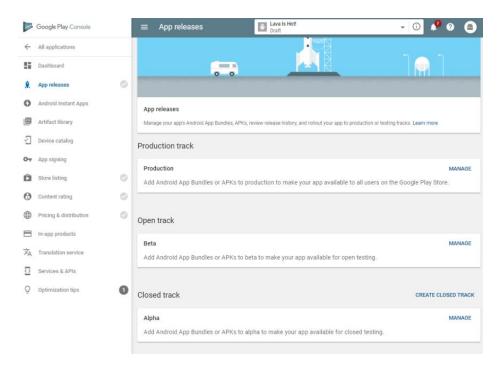
Fill in the dialog that pops up using the correct name for your game:



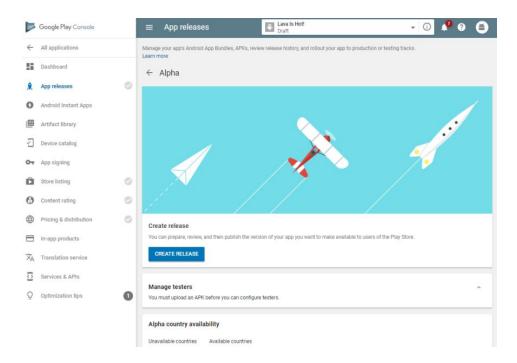
Fill in some basic text for Short description and Full description, then click the 'Save Draft' button in the lower-right corner of the page:



On the left-side of the page, click 'App release' then choose the 'manage' option for either Beta or Alpha:



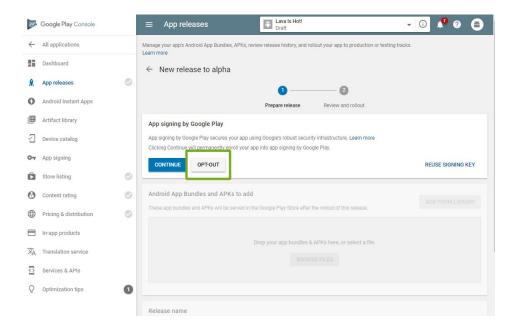
Next, click 'Create Release'



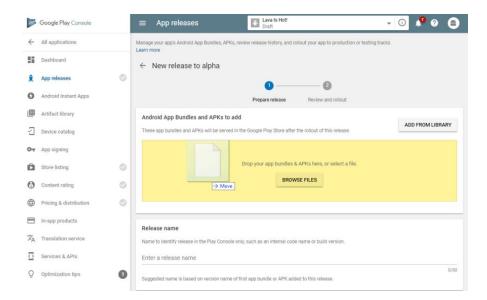
IMPORTANT! IMPORTANT! IMPORTANT! IMPORTANT! IMPORTANT!

Now, be absolutely sure to click the 'Opt-Out' button and to confirm you are opting out.

You want to use your own signing certificate not one supplied by Google.

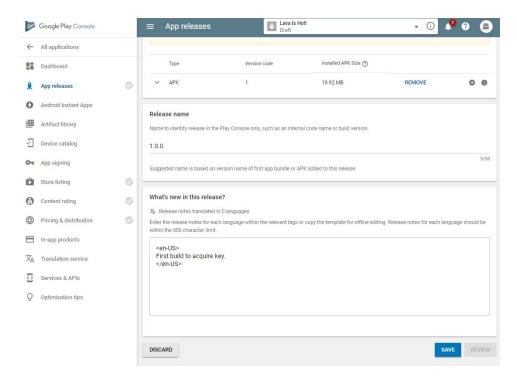


Now, locate your APK and drag-and-drop it to the space shown in yellow below:

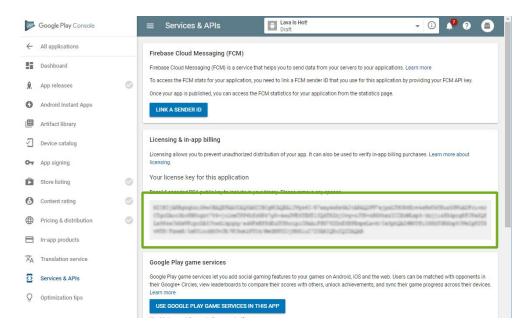


You can also click the 'Browse Files' button to manually upload it if you like.

When the file is done uploading, scroll to the bottom of the page, (optionally) add a release note, then click 'Save':



Finally, you can click on "Services & APIs" on the left-side of the page and you will see an page like the following. Grab the big string outlined in the green box in my screenshot:



As the last set of steps, open config.lua, uncomment the license section, and replace "YOUR_KEY" with the long string you just copied.

This:

```
-- Google Play In-App-Purchase
-- https://docs.coronalabs.com/plugin/google-iap-v3/index.html
--[[
license = {
    google = {
        key = "YOUR_KEY",
    },
},
```

Becomes something like this:

```
-- Google Play In-App-Purchase
-- https://docs.coronalabs.com/plugin/google-iap-v3/index.html
license = {
   google = {
    key =
```

"ABNADA\$TgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAlIVyk6C/R7aay4wSs9AItARAQ2PV7ajpxLT HOR6Eov4sNwUkURuz5GVuADFci+mcCTgoDAoc3bcPBNcgzt786+jclmeTPP6hfrMPk7yS+4wuDVE6TE MT1YQdTRZhjCvq+nJUN+nKG8hxzICIEnWLxp9/dzjji4fX4pogRFJPaSQfLx9S4sJkXaVPipoDAYJtw dlkpqky/a4MFsBfSdEuDUShcipiCKaAiFfM75DDnE5BPEmpeLx+M/Ca8phQAZ6WOUfiZ6KkTGRXnp80 VeZgPZUGvHTN/FzmeB/3sN31ncMhUvJB/VC5wb2PTOd/WeGNNUZ0jNM5luI7ZYAADFOJWESGASDH",

```
},
```

Creating A Twitter App

This framework uses the PAID Twitter plugin by Jason Schroeder to allow users to Tweet about your game.

Buy and enable plugin here: https://marketplace.coronalabs.com/corona-plugins/twitter

Plugin docs: http://www.jasonschroeder.com/2015/07/15/twitter-plugin-for-corona-sdk/

Jason has provided docs for this here:

http://www.jasonschroeder.com/2015/07/15/twitter-plugin-for-corona-sdk/#registration

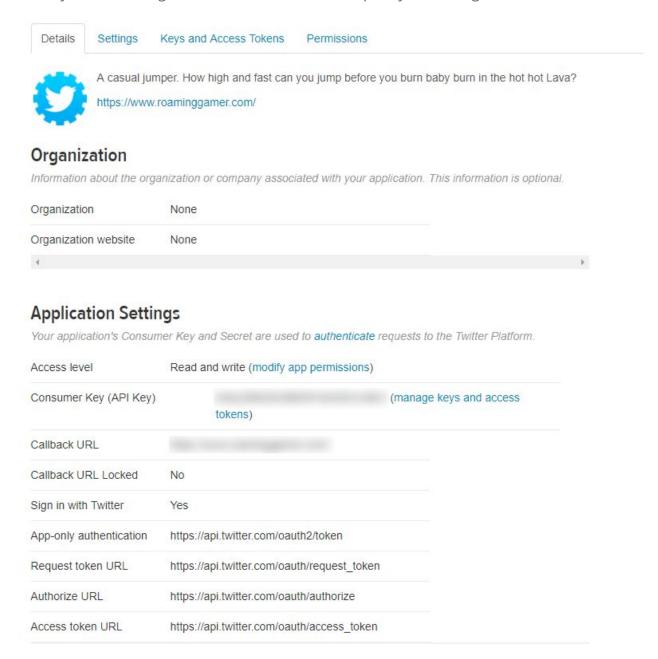
Important!: Your app may not be available immediately after creation. Give it an hour or two and it should be ready for use.

Twitter App Registration

For completeness, here is a summary of how to set up a Twitter App:

- 1. Go to https://apps.twitter.com and click the "Create New App" button.
- 2. Fill in all the fields with your app's name, description, website and a callback URL. Note that while it doesn't matter what your callback URL is, you MUST include one for the plugin to work correctly, even though Twitter does not consider it a required field.
- 3. On your new app's developer page, click the "Keys and Access Tokens" button. The API Key and API Secret will be shown, for easy copying and pasting into your Corona app.

When you are done, go to the **Details** tab and compare your settings to these:



If you see any differences, go the the correct tab, update the settings, and save them.

Package ID, Bundle ID, and Apple ID ...

In the prior pages, the instructions may call for any of the following:

- Package ID This is the app ID of your Google Play game.
- Bundle ID This is the app ID of your Apple game.
- Apple ID This is a numeric ID used by the Apple store to look up your game page.

Getting The Package ID

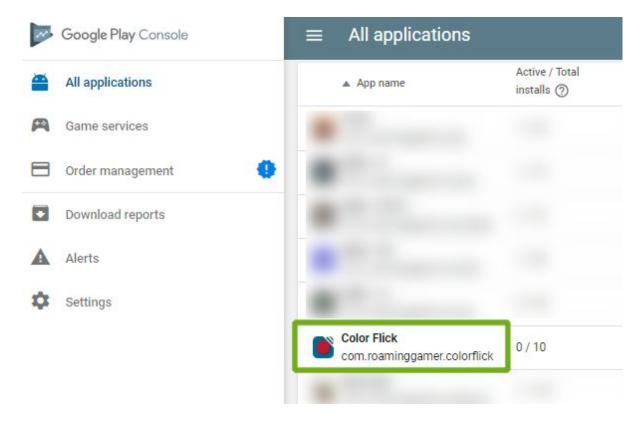
You specify the package ID when building your app and it is typically something like:

com.yourcompanyname.gamename

Android Build Setup		? ×
Application Name:		
Version Code:	1	
Version Name:	1.0.0	
Package:		
Project Path: Target App Store:	A unique Java-style package identifier for your app (e.g. com.acme.games.myfarmgame) X:\Work\00_CurentProjects\Corona\C_Chupamot	
Keystore:	Labs\Corona SDK\Resources\debug.keystore	Browse
Key Alias:	androiddebugkey	~
Save to Folder:	X:\Work\00_CurentProjects\Corona	Browse
	Create Live Build Build	Cancel

Later, if you forget, just log into your Google Play console, then find your game and it will be listed below the game name.

For example, my game 'Color Flick' has the package ID: com.roaminggamer.colorflick

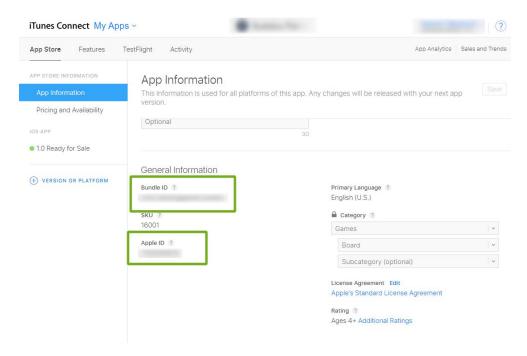


Getting The Bundle ID and Apple ID

You specify the bundle ID when you create your game ID on the Apple certificates page. It usually takes the form:

com.yourcompanyname.gamename

Later, you can find this by logging into your iTunes connect account and looking on the 'App Store' page for your app. The numeric Apple ID will be found on the same page.



Building Releases

Android

https://docs.coronalabs.com/guide/distribution/androidBuild/index.html

iOS

https://docs.coronalabs.com/quide/distribution/iOSBuild/index.html

FAQ

I made a change and it didn't work.

Sometimes during testing and development you will change some setting in scripts/common.lua then re-run and it will seem as if the change did not take effect. The reason for this is that some settings are stored in the persistent storage for the game.

To ensure your changes take effect, do the following:

In Simulator

Using the simulator file menu, open the "Project Sandbox" folder, then open the "Documents" directory.

You will see one or two files in this folder.

Delete them, then restart the simulator.

On Device

If you're testing on the device, simply delete the application (not replace it) then re-install it. Installing over and old copy keeps the persistent storage, but deleting the app removes it.

I set up a Twitter App but I can't tweet. Why not?

A number of things may be wrong, including:

- Your settings may be wrong. Please see 'Creating A Twitter App' above and compare your settings to mine.
- Your IDs may be wrong. Please be sure you supplied your API Key and Secret as
 described in 'Edit Twitter Helper' above.
- You may need to wait. It take some time for the App to be ready for use. Give it an hour
 or two and it should definitely be ready.

Why Doesn't the IAP Dialog Pop up when I press the 'NoAds' or 'Restore' button on my device?

Android

This may happen on Android if you have:

- Failed to supply a license key. Please see 'Getting A Google Play IAP License Key' above.
- Failed to build with a production certificate. You must build your game with a production certificate when testing IAP.
- Incorrectly set common.extras.iap_test_mode to false. If you want to use the IAP Badger testing features in the simulator and on device, you must set this flag to true.

iOS

This may happen on iOS if you have:

• Failed to build with a production certificate. You must build your game with a production certificate when testing IAP.

Why is my production app showing test ads?

In all likelihood you left the testMode flag set to true.

Please double check your settings by visiting the 'Edit Provider Helper' section above for either Appodeal or AppLovin, depending on the provider you are using.

Important Steps - Before You Publish Your Game

- Ensure you are using valid IDs for all of the extra features you have enabled.
- Be sure you are building a production copy and not using a debug certificate.
- If you are using Ads, be sure to edit the appropriate ad helper and set the testMode variable to false.
- If you are using IAP, be sure to set the set the common.iap_test_mode variable to false.

Credits

All of the assets and libraries in this template are free and covered by very liberal licenses:

Images

Kenney - http://kenney.nl/

Various (CC0):

- https://kenney.itch.io/kenney-donation
- https://kenney.itch.io/kenney-game-assets-2
- https://kenney.itch.io/kenney-game-assets-3

Note: I can't say enough positive things about Kenney's art packs. While you can get them for free, you should go out and paid the low-low price of \$10 each.

pzuH- http://kenney.nl/

This template uses two different free interface packs by this author. There are many more free and paid packs to be found pzUH and you should check them out.

- https://opengameart.org/users/pzuh
 - Casual: https://opengameart.org/content/casual-game-button-pack
 - Medieval: https://opengameart.org/content/medieval-game-button-pack
- Other sites that have pzUH assets:
 - Corona Marketplace: https://marketplace.coronalabs.com/vendor/pzuh
 - o OpenGameArt.Org: https://opengameart.org/users/pzuh
 - o Game Art 2D: https://www.gameart2d.com

Roaming Gamer - Clone & Flat & Prototype

Lastly, there is are three basic sets of art made by 'Roaming Gamer':

- Flat A flat art pack typical of today's casual styled games.
- Prototype A prototyping set showing safe spaces and bleed areas.

Note: Both of these art sets use Kenney's flat buttons.

Fonts

All fonts used in this template are free and downloaded from: https://fonts.google.com/

Sounds

All sounds are free and made using bfxr and sfxr by Roaming Gamer, LLC.

- https://www.bfxr.net/
- http://www.drpetter.se/project_sfxr.html

SSK2

This template uses the completely FREE "Super Starter Kit 2" by Roaming Gamer, LLC.

Super Starter Kit 2 (aka SSK2) is a collection of libraries and utilities designed to take your Corona SDK development experience to a whole new level of efficiency and speed.

This library is entirely free to use in any game or app. You can learn more about it here:

https://roaminggamer.github.io/RGDocs/pages/SSK2/

Index

Product Overview	1
Features Summary	1
License	2
Features	2
Getting Started With Corona	4
First steps	4
Testing The Installation	4
Run This Template	5
Modifying The Game	6
Selecting Different Themes	6
Modifying Game Art	6
Modifying Button Art and Code	7
Modifying Game Code	8
Modifying composer.* Scenes	9
The About Scene	10
Additional Options and Debug Settings	10
Game Title	11
Enable Steering & Enable Collisions (Debug)	11
Hit Feedback (Debug)	11
Snow Feedback (Debug)	11
Tree Creation Feedback (Debug)	12
Modifying The Framework	12
Ads	13
scripts/common.lua - Ad Settings	13
Enable Feature	13
Select Provider	13
Enable Interstitials	13
Set Interstitial Frequency	13
Choose Whether To Request GDPR Permission	13
Edit Provider Helper	14
AppLovin Helper	14
Use Default GDPR Behavior	14
Appodeal Helper	15
Use Default GDPR Behavior	15

build.settings - Ad Settings	16
AppLovin	16
Appodeal	16
In-App-Purchases	18
scripts/common.lua - IAP Settings	18
Enable Feature	18
Set Test Mode	18
Disable Inventory Loading	18
Edit IAP Helper	19
build.settings - IAP Settings	20
config.lua - IAP Settings	20
Rating	21
scripts/common.lua - Ratings Settings	21
Enable Feature	21
Edit Rating Helper	21
build.settings - Rating Settings	22
Sharing	23
scripts/common.lua - Sharing Settings	23
Enable Feature	23
Edit Sharing Helper	23
build.settings - Sharing Settings	23
Twitter	24
scripts/common.lua - Twitter Settings	24
Enable Feature	24
Edit Twitter Helper	24
build.settings - Twitter Settings	25
Modifying Extras' Button Positions	26
Getting A Google Play IAP License Key	27
Build Game	27
Create App Description On Google Play	28
Creating A Twitter App	33
Twitter App Registration	33
	25
Package ID, Bundle ID, and Apple ID	35
Getting The Package ID	35
Getting The Bundle ID and Apple ID	37
Building Releases	38
Android	38

iOS	38
FAQ	38
I made a change and it didn't work.	39
In Simulator	39
On Device	39
I set up a Twitter App but I can't tweet. Why not?	39
Why Doesn't the IAP Dialog Pop up when I press the 'NoAds' or 'Restore' button of device?	on my 40
Android	40
iOS	40
Why is my production app showing test ads?	40
Important Steps - Before You Publish Your Game	41
Credits	42
Images	42
Kenney - http://kenney.nl/	42
pzuH- http://kenney.nl/	42
Roaming Gamer - Clone & Flat & Prototype	42
Fonts	43
Sounds	43
SSK2	43
Index	44