Running **Radio** in the Background

This is a short manual how to run **Radio** in the background on standalone, iOS or Android.

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Disclaimer:

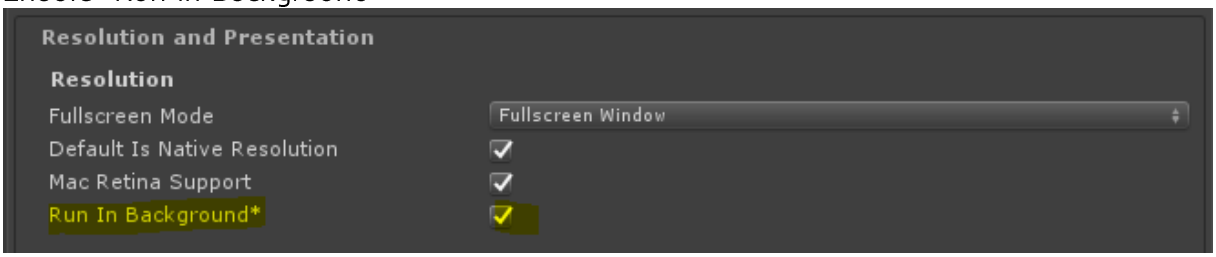
Unity is **not designed** to work in **background** on **mobile** platforms. The following pages represent some kind of a hack to achieve background play and it is entirely possible that it would not work.

Note:

In this tutorial we used
- **Unity 2018.4.14**
- **Xcode 10.1** (tested with **iOS 14.4**)
- **Android Studio 4.1.2** (tested with **Android 11**)

Standalone

1. Go to the **PlayerSettings**
   File -> Build Settings -> PlayerSettings
2. Select tab **Other Settings**
3. Enable "Run In Background":



iOS

General steps

1. Go to the **PlayerSettings**
   File -> Build Settings -> PlayerSettings
2. Select tab **Other Settings**
3. Change the "Behaviour in Background" from ***Suspend*** to ***Custom***
4. Set the "Audio, AirPlay, PiP" and "Background fetch" active

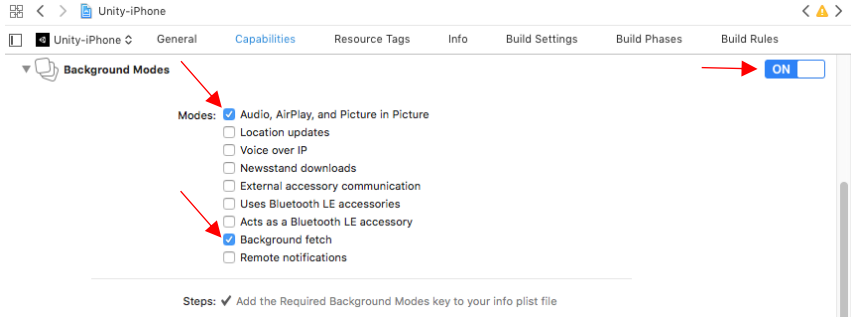
5. Build the project for **iOS**

New way (in Unity)

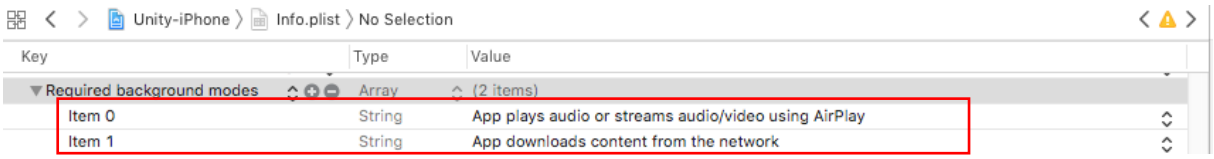
1. Import the package iOS_RunInBackground.unitypackage from "Assets\Plugins\crosstales\Common\Extras"
2. Build the project for **iOS**

Old way (in Xcode)

1. Build the project for **iOS**
2. Open the Xcode project
3. Click on the project (with the blue icon to the left) and open the **Capabilities** tab
4. Scroll to the **Background Modes** and check if the "Audio, AirPlay, and Picture in Picture" and "Background fetch" are **active**:



5. Open the ***info.plist*** file and check the following values:



6. Open the ***UnityAppController.mm*** file
7. Add the **import** lines for **AVFoundation** and **AudioToolbox**:

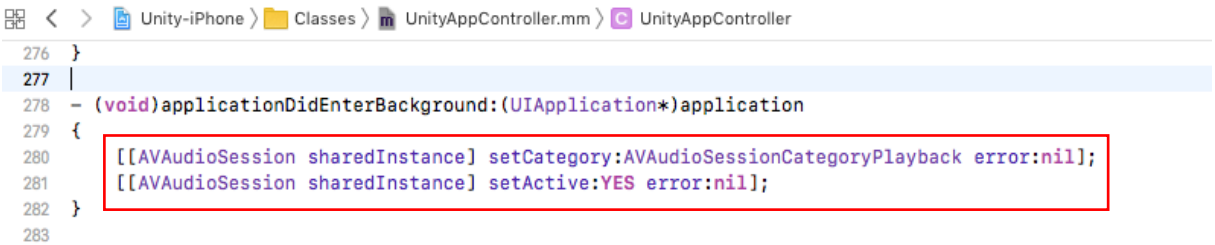
```
#import <AVFoundation/AVFoundation.h>

#import <AudioToolbox/AudioToolbox.h>
```

8. Next, search in the same file for "**applicationDidEnterBackground**" and add these two lines:

```
[[AVAudioSession sharedInstance]
setCategory:AVAudioSessionCategoryPlayback error:nil];

[[AVAudioSession sharedInstance] setActive:YES error:nil];
```



Android

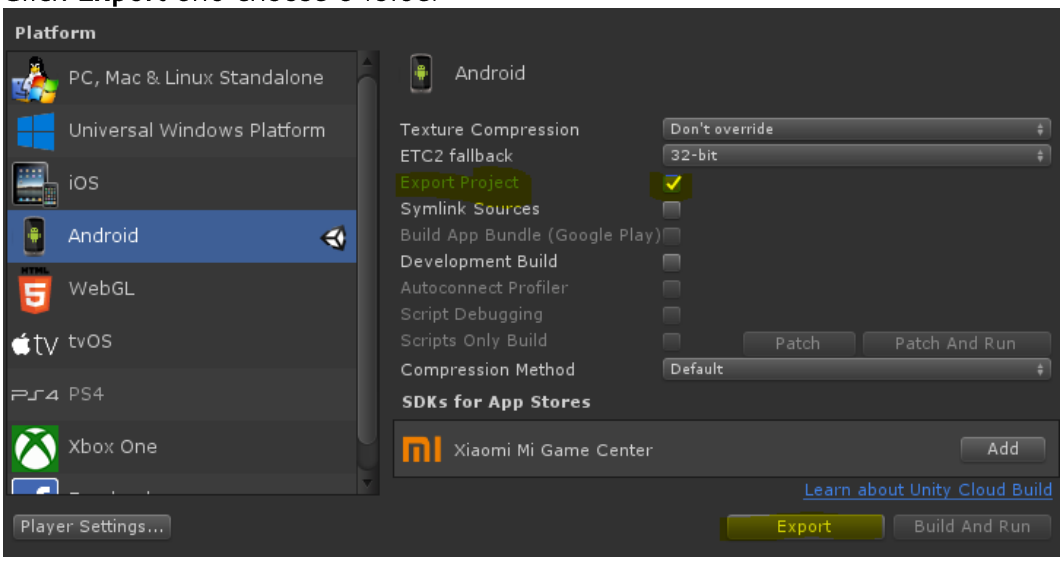
New way (in Unity)

1. Import the package **Android_RunInBackground.unitypackage** from "Assets\Plugins\crosstales\Common\Extras"
2. Optional: configure the **AndroidManifest.xml** under "Assets\Plugins\Android"
3. Optional: modify the **CTUnityPlayerActivity.java** under "Assets\Plugins\Android"
4. Build the project for **Android**

Old way

Unity Settings

1. Open the **Build Settings -> File -> Build Settings**
2. Set *Export Project* to **active**
3. Click **Export** and choose a folder



Android Studio Settings

4. Open **Android Studio**
5. Open the project folder
6. Open the ***UnityPlayerActivity.java*** file
7. Search for "onPause"
8. Comment the method:

```
45  /*
46      // Pause Unity
47      @Override protected void onPause()
48      {
49          super.onPause();
50          mUnityPlayer.pause();
51      }
52  */
```