



Introduction to iOS Development

Created by Trevor Beaton



<https://learn.adafruit.com/introduction-to-ios-development>

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Table of Contents

Overview	3
Becoming an Apple Developer	3
<ul style="list-style-type: none">• Enroll as an Apple Developer• Technical Support	
Installing Xcode	10
<ul style="list-style-type: none">• Welcome to Xcode!	
Getting your Development & Distribution Certificate	13
<ul style="list-style-type: none">• Development Certificate• Distribution Certificate	
Registering your Device	19
<ul style="list-style-type: none">• Enter your device name and UDID.	
Setting up your App ID	21
Creating Development & Distribution Provisioning Profiles	23
<ul style="list-style-type: none">• Development Profile• Distribution profile	
Testing your App	27
Getting your App ready for Distribution	32
Create an App listing in iTunes Connect	35
Prepare & Submit your app through Xcode	37
<ul style="list-style-type: none">• Preparing for submission to iTunes Connect	

Overview

In this guide, we'll walk you through everything you'll need to set up and submit your iOS app to the App Store. We'll show you how to get an Apple ID which will get you access to Xcode, make you part of the Apple Developer Program, set up a certificate signing request, get a distribution provisioning profile, then show you how to submit your app through Xcode.

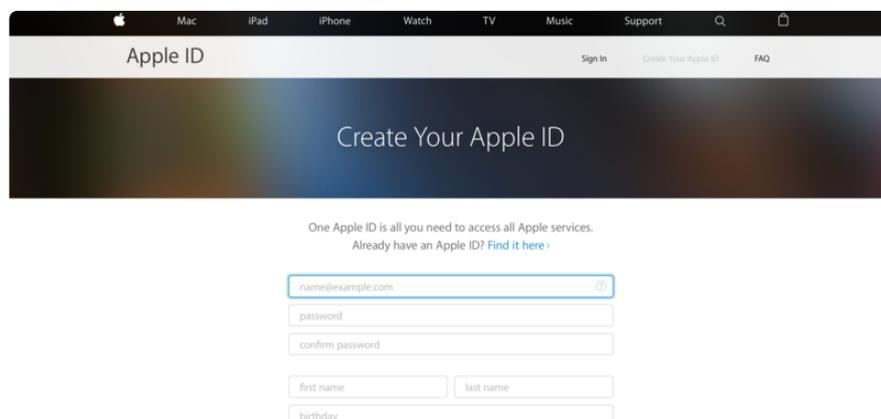
Being an Apple Developer is 100% free, but to submit your app to the App Store you'll need to sign up for the iOS Development Program which will cost 99\$ USD per membership year.

In this tutorial, we'll show you how to:

- Get an apple ID
- Download Xcode
- Enroll into the Apple Development program
- Create an iOS Development/Distribution Certificate
- Create an iOS Distribution Provisioning profile
- Create an App Archive
- Submit your app the App Store

Becoming an Apple Developer

To become an Apple Developer you'll need an Apple ID. If you already have an Apple ID then you can skip ahead to the "Enroll as an Apple Developer" step below. If you don't have an Apple ID - no worries! Getting an Apple ID is easy. Create your Apple ID [here](https://adafru.it/pAa) (<https://adafru.it/pAa>).



The image shows a screenshot of the Apple ID creation page. At the top, there is a navigation bar with links for Mac, iPad, iPhone, Watch, TV, Music, and Support. Below the navigation bar, the page title is "Apple ID" and there are links for "Sign In", "Create Your Apple ID", and "FAQ". The main heading is "Create Your Apple ID". Below this, there is a message: "One Apple ID is all you need to access all Apple services. Already have an Apple ID? [Find it here](#)". The form contains several input fields: "name@example.com" (with a dropdown arrow), "password", "confirm password", "first name", "last name", and "birthday".

At this time you'll need to fill in a little information. They'll ask you for an email, password, and you'll need to fill in some security questions like "What's the name of your first pet?"

It's very important that you give them an email that you frequently use, because Apple always sends out updates of your app that you've submitted.

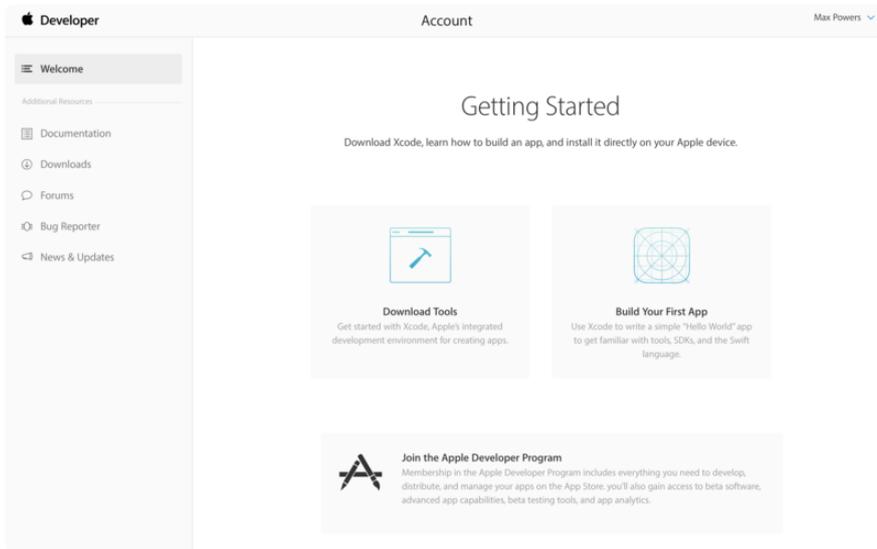
A screenshot of the Apple Developer website's login/sign-up interface. At the top, the Apple logo is followed by the word "Developer". Below this is a central form with two input fields: "Apple ID" and "Password". The "Password" field has a small key icon on the right. Below the fields are two buttons: "Create Apple ID" (light blue) and "Sign In" (dark blue). At the bottom of the form area, there is a link that says "Forgot ID or Password?".

Congratulations - you now have an Apple ID. Good Job! We still have some work to do.

Enroll as an Apple Developer

Now we need to enroll into the Apple Developer Program which will allow you to submit your apps to the App Store. Note: this next part of the process will require payment of \$99 fee for a one year membership.

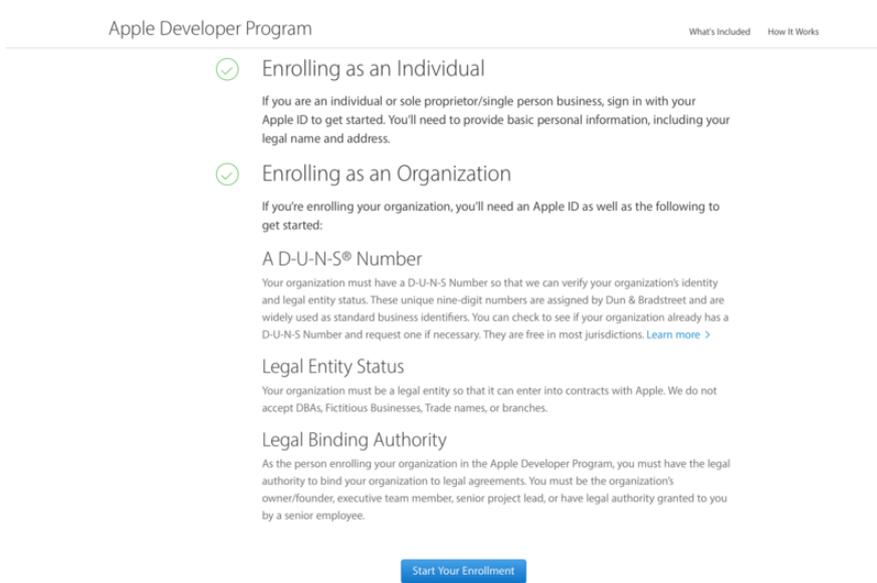
Creating an Apple ID automatically gives you access to the Apple Developer website. [Log in \(https://adafru.it/pAb\)](https://adafru.it/pAb) to the site here. There is a TON of information that you can access without even being registered in the developer program. Check out the Documentation tab that's available on your profile page.



After getting familiar with the developer site, click on the "Join the Apple Developer Program" link located at the bottom of the screen.



On the next page that loads, click on the "Enroll" button in the upper right corner.



The following page will let you know the difference in choosing to work as an Individual or as a Company.

Click on "Start Your Enrollment"

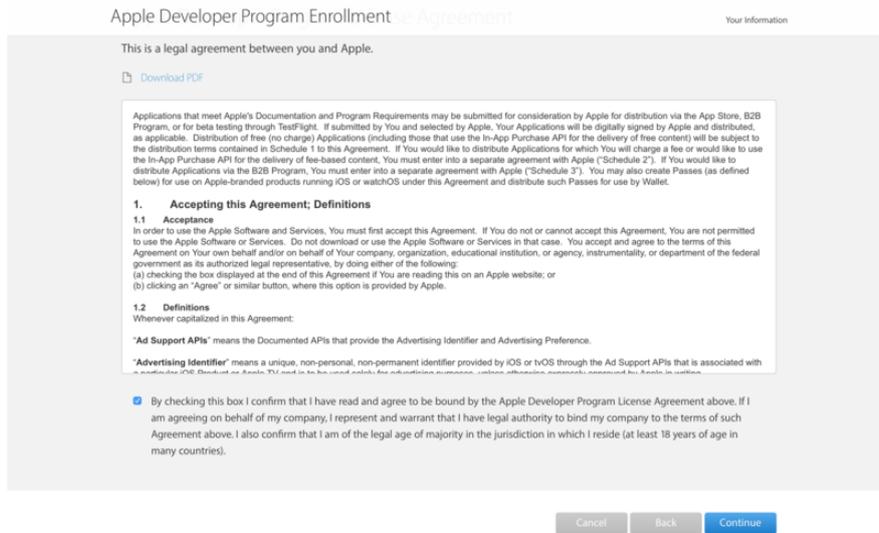
The screenshot shows the 'Apple Developer Program Enrollment' page. At the top, there is a navigation bar with 'Developer' and various menu items. The main heading is 'Apple Developer Program Enrollment'. Below this, there is a section for 'Apple ID Information' with a warning about legal agreements. The user's details are listed: Email (Trevor.Beaaton12@gmail.com), Name (Max Powers), and Country (United States). The 'Entity Type' section is highlighted, showing a dropdown menu with options: 'Individual / Sole Proprietor / Single Person Business' (selected), 'Company / Organization', and 'Government Organization'. 'Cancel' and 'Continue' buttons are visible at the bottom of the dropdown.

Choose your Entity type, for this tutorial we'll be developing as an Individual.

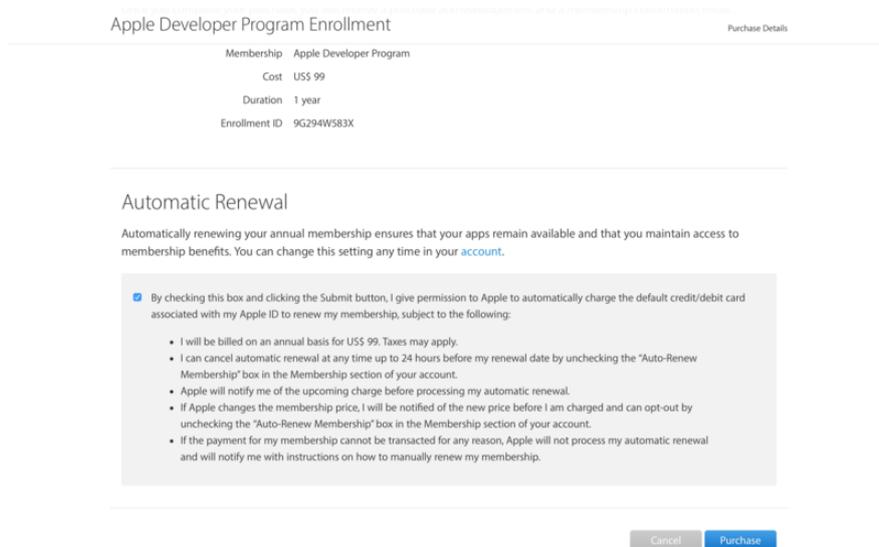
Alright, you know the drill. You'll need to enter your information.

The screenshot shows the 'Contact Information' section of the enrollment page. It includes a warning about the seller name and legal name. The form fields are: 'Legal Name' (Max Powers), 'Phone' (Country Code, Phone Number, Extension), 'Address Line 1', 'Address Line 2 (optional)', 'Town / City', 'State / Province' (Select), 'Postal Code (optional)', and 'Country' (United States).

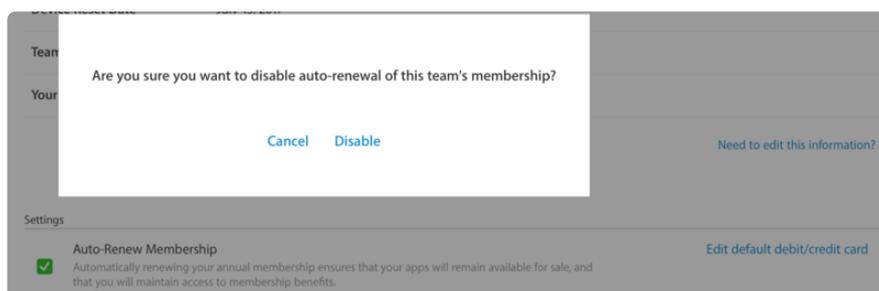
Now you'll need to agree to the terms. Make sure you check this out. Check the box, then click Continue.



Make sure your info is correct, then hit Continue.

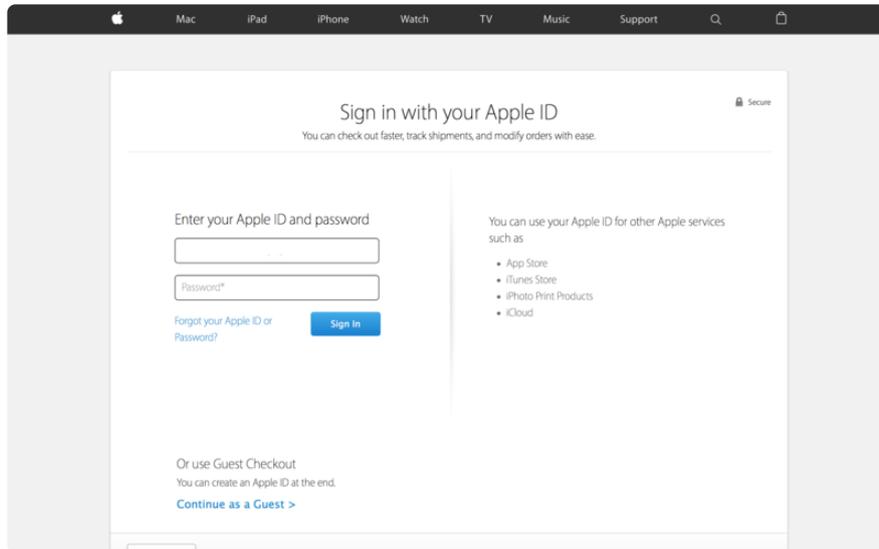


Automatic Renewal: Ok, make sure you read this. You don't need to have the Automatic Renewal feature in order to continue. If you just want to try out your first year, then just hit Purchase without checking the box. If you change your mind, you can update this setting on the membership tab. Once you're on that screen, look at the bottom. You should be able choose if you want that feature or not.

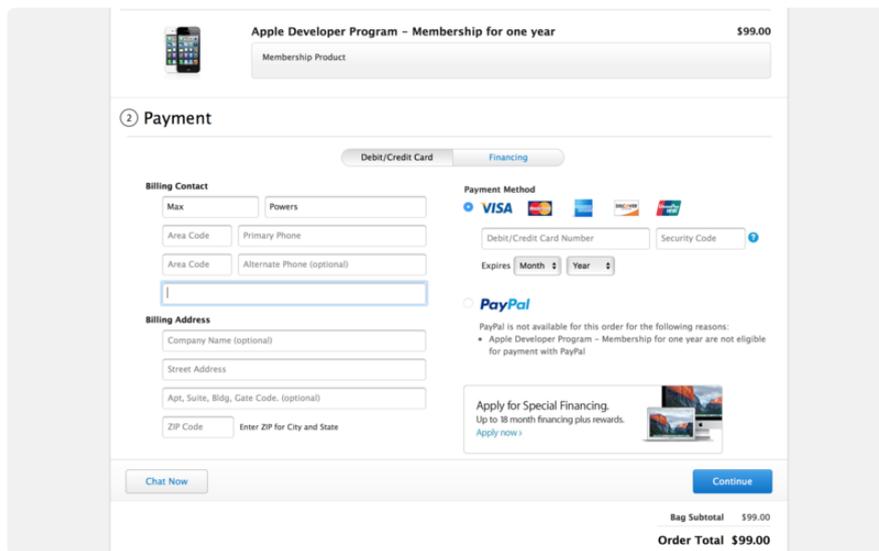


Ok, after clicking "Purchase" you'll need to sign in one last time ... I promise.

This is where you'll pay for your membership.



Answer some billing inquiries...



Once you've finished all that, you're done! You should receive a confirmation email notifying you of your yearly membership. Congrats! Now you are able to submit your apps onto the Apple App Store!

Thanks for your order.

Your purchase details are below.

Items

	Apple Developer Program - Membership for one year	\$99.00
---	---	---------

Technical Support

Once you're registered in the Developer Program, you can receive help from Apple Support Engineers. If something is going wrong with your code, they'll gladly give you a helping hand. But keep in mind that you are allowed 2 incidents per membership. So use these resources wisely!

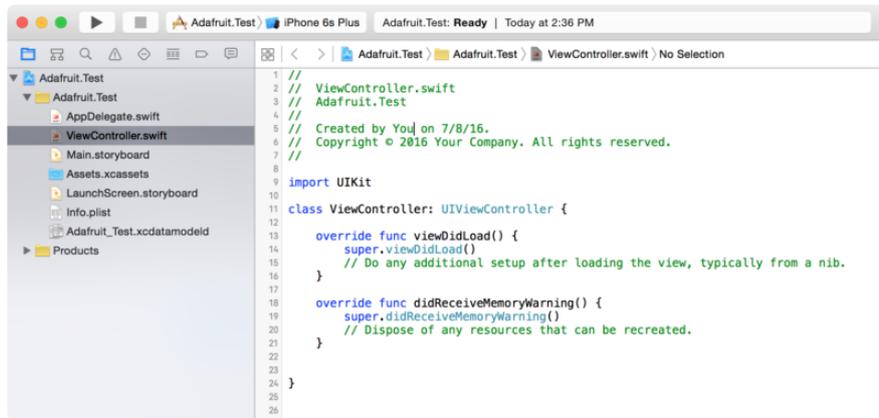


Technical Support

Get code-level help with your app from our developer technical support team.

[Sign in >](#)

Installing Xcode



Xcode is an IDE which stands for Integrated Development Environment, here is where you'll use editors, compilers and other tools to help you manifest your iOS Apps or Desktop applications.

With Xcode not only will you be able to create mobile applications, you're also able to make apps for your Mac computer. But to get started you'll only need a few things...

- First, you'll need a Mac computer running OS X 10.11 (El Captain) or later. (Xcode is not compatible with Windows or Linux OS)
- It also requires 3.80 GB of space
- If you don't have a Mac computer, there are ways for you to still participate, you'll just need to be ... creative.

First thing first - head over to the App Store and download Xcode [here \(https://adafru.it/pAI\)](https://adafru.it/pAI).

Once you've downloaded Xcode, open it up and look around a bit. This [guide \(https://adafru.it/pAm\)](https://adafru.it/pAm) will show you the basic interface of Xcode so you can get started right away!

Welcome to Xcode!

Let's get started...

When you first launch Xcode, you may be asked to "Install Additional Components" - go ahead and say yes.

Once Xcode has finished launching, select **Create a new Xcode project**.

×



Welcome to Xcode

Version 7.2.1 (7C1002)



Get started with a playground

Explore new ideas quickly and easily.



Create a new Xcode project

Start building a new iPhone, iPad or Mac application.

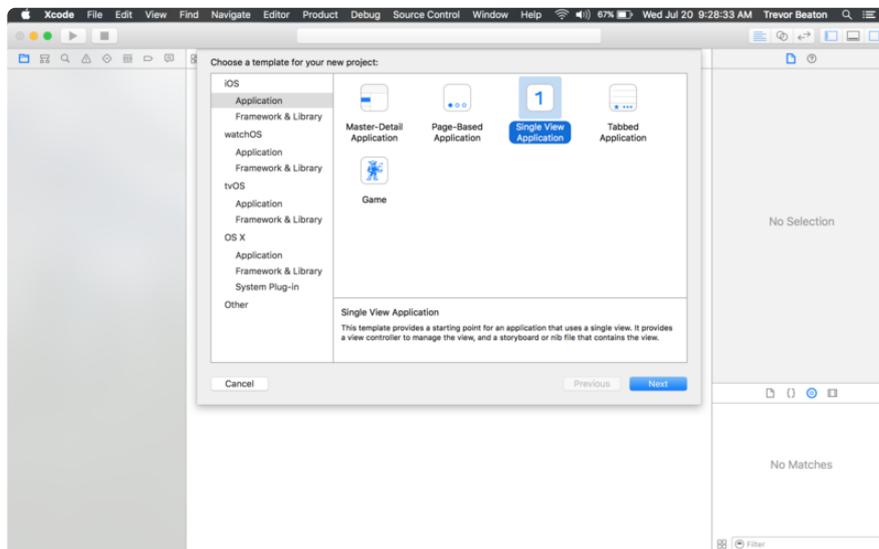


Check out an existing project

Start working on something from an SCM repository.



Show this window when Xcode launches



For right now select **Single View Application** then click Next..

Fun Fact: Many apps you currently have use a single view, like the Weather app.



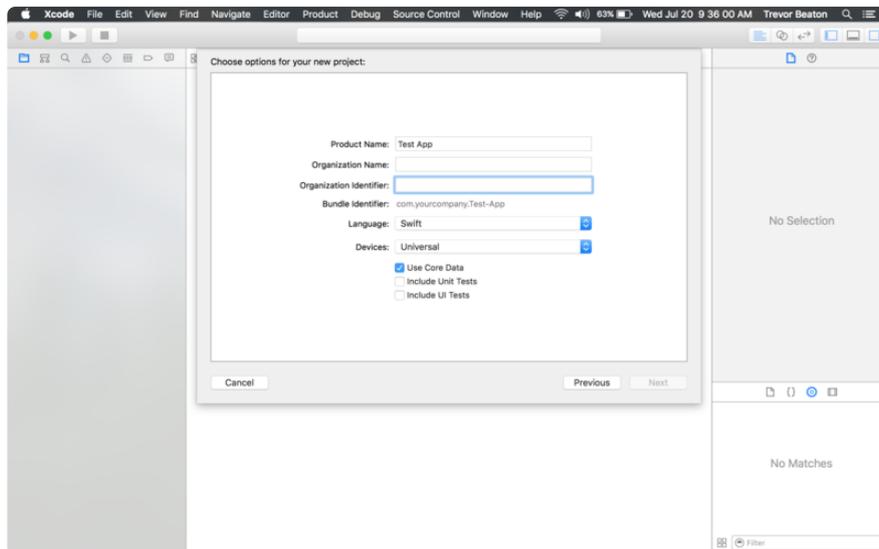
Now you'll need to add your App name. We'll just go with **Test App** for now.

Organization Name which will be your company name.

Organization Identifier - with this you can put almost anything you want. It just bundles together your info to give you a unique identifier.

Choose the programming language you are planning on using, **Universal Binary** and check all three boxes.

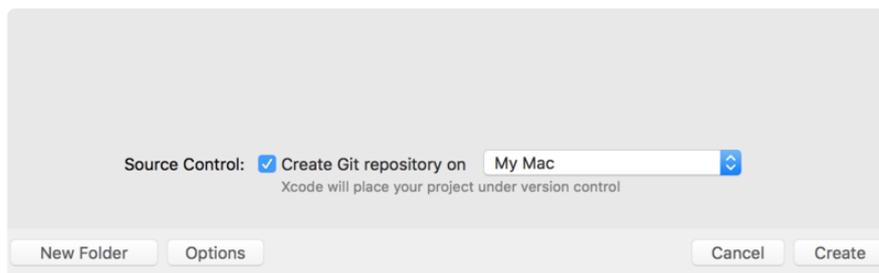
Then hit **Next**.



Now choose a place where you'd like to save your project.

If it isn't already checked, check off the **Create Git repository** option and then hit **Create**

Note: It's very useful to have a Git repository. If you are not familiar with Git, you can have a quick look at getting started here: [Learning Git \(https://adafru.it/pAn\)](https://adafru.it/pAn)



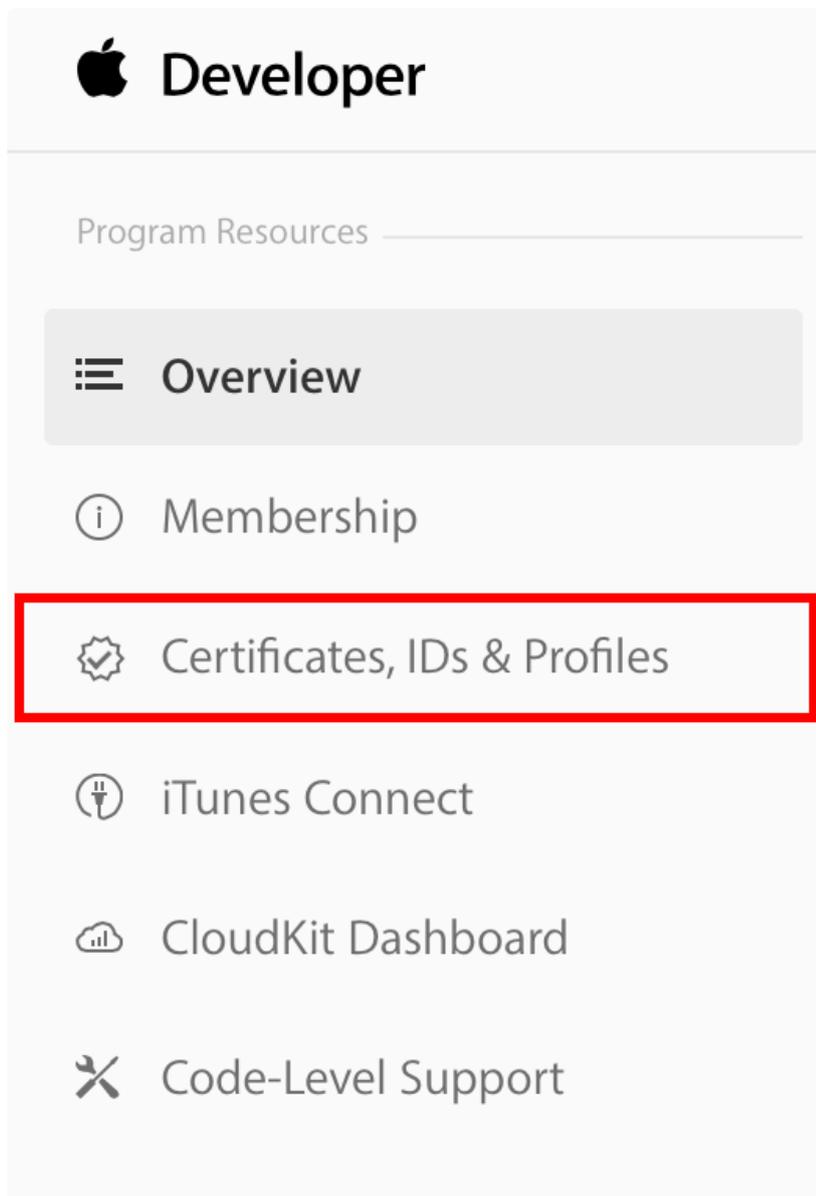
Ok! That's it - you've now created your first Xcode project!

We won't get into the details of writing code for iOS here but you can find a number of resources online to help you get started.

Getting your Development & Distribution Certificate

In order for you to efficiently develop your apps, it's a good idea to have your prototype app on your actual device ... also how cool is it to see your functioning app on your mobile device?

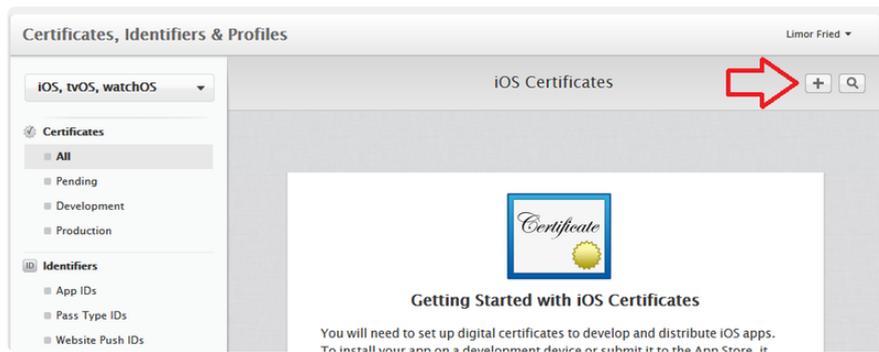
In order for you to do this you'll need to have two Apple certificates. This is no problem. Go to your Account page on the [Apple Developer website \(https://adafru.it/pAo\)](https://adafru.it/pAo) and you'll see a "Certificates, IDs & Profiles" tab. Click on it.



Development Certificate

Right now, we're going to gather two different things - a development and a distribution certificate.

On the **Certificates, IDs & Profiles** page, on your upper right you'll see a "+" button - click on it.



Now you should see this page. Choose **iOS App Development** under **Development** for your certificate type then click **Continue**

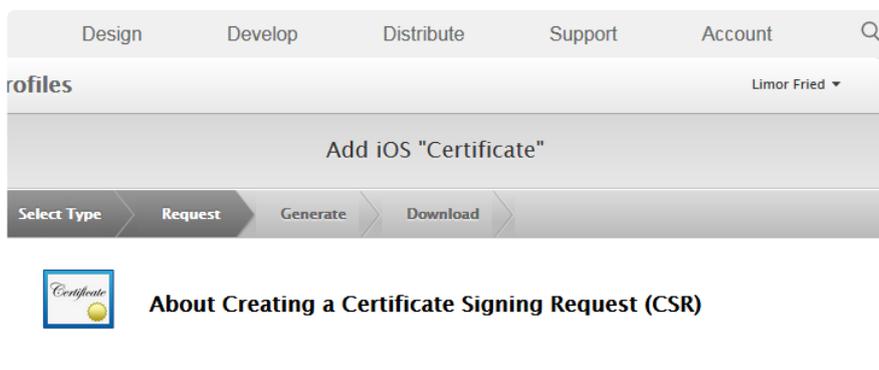


What type of certificate do you need?

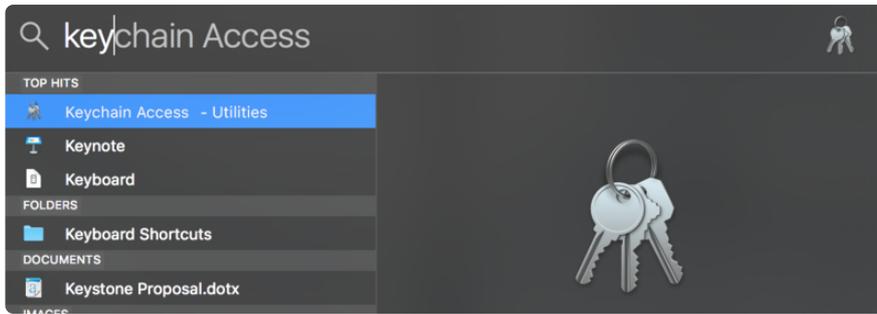
Development

- iOS App Development**
Sign development versions of your iOS app.
- Apple Push Notification service SSL (Sandbox)**
Establish connectivity between your notification server and the Apple Push Notification service sandbox environment to deliver remote notifications to your app. A separate certificate is required for each app you develop.

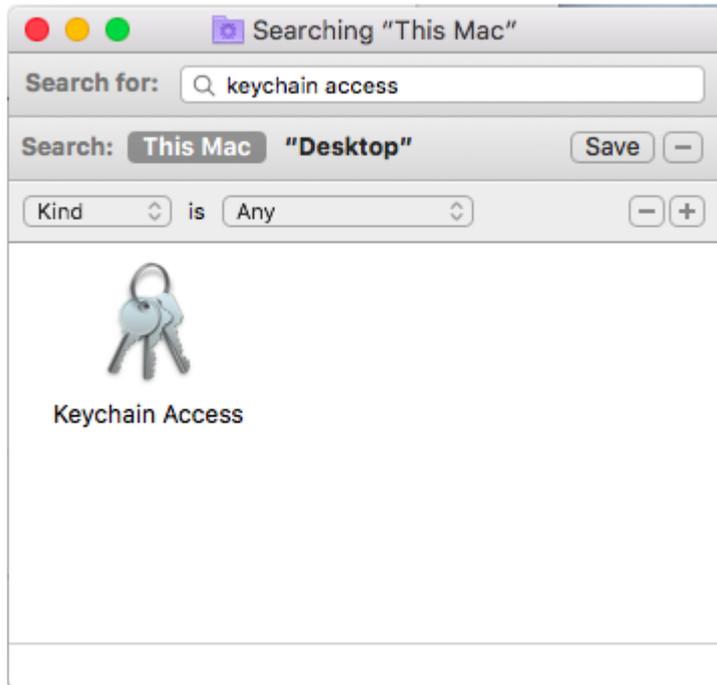
Next page will be about creating a **Certificate Signing Request (CSR)**



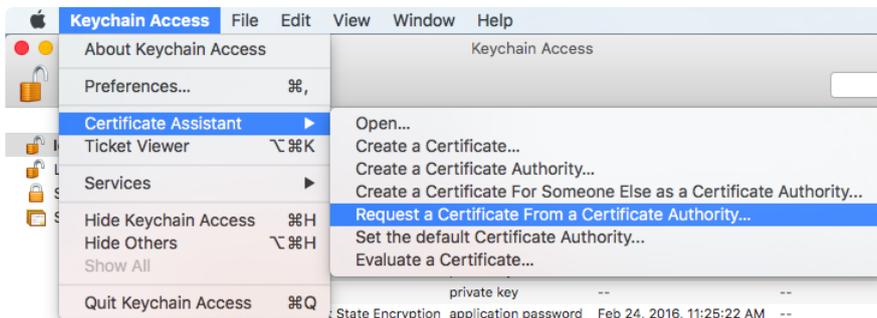
Now we need to generate a CSR with **Keychain Access**. Way up, on the upper right where your status bar is, you see a magnifying glass icon, this is **Spotlight**. Open **Spotlight**, then type in **Keychain Access** then open it up.

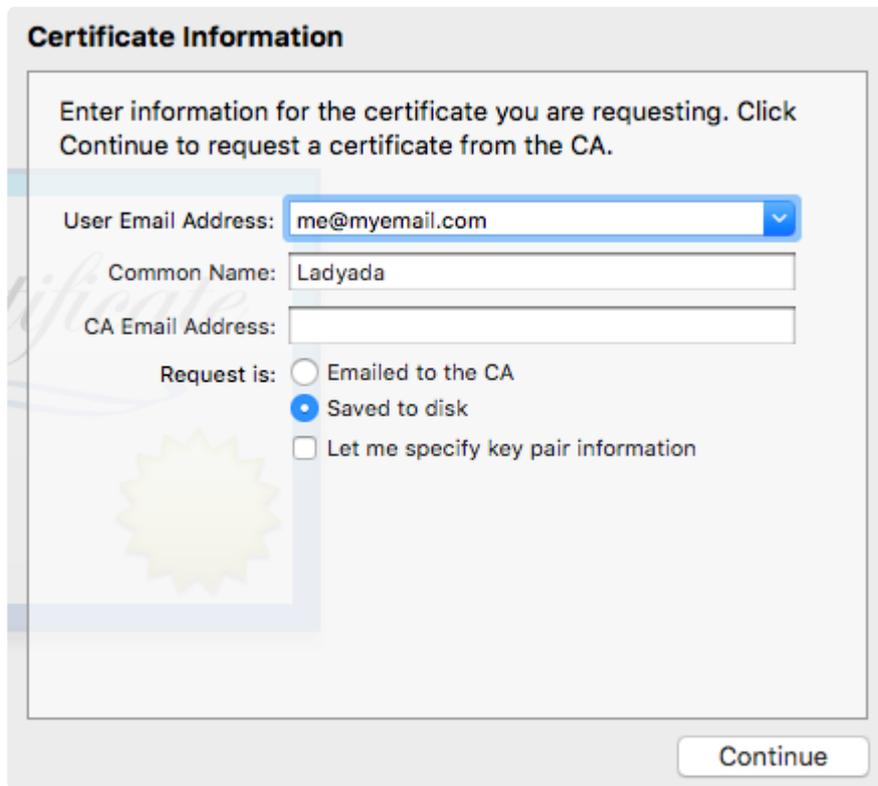


Alternately you can go through the Finder search system



When the program is open, Go to the drop down **Keychain Access** menu > **Certificate Assistant** > **Request a Certificate From a Certificate Authority**





Certificate Information

Enter information for the certificate you are requesting. Click Continue to request a certificate from the CA.

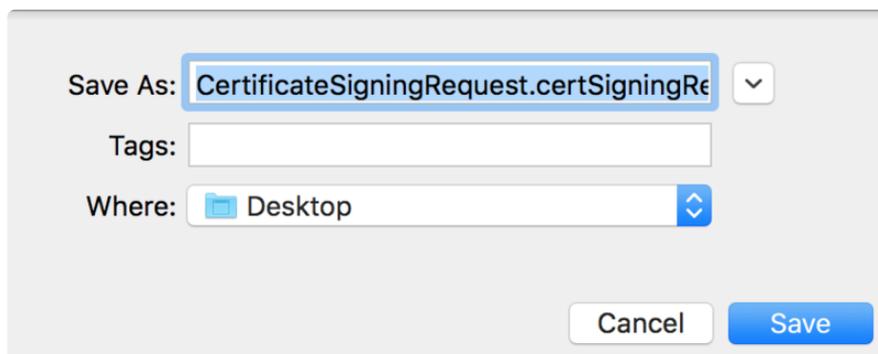
User Email Address:

Common Name:

CA Email Address:

Request is: Emailed to the CA
 Saved to disk
 Let me specify key pair information

You'll need to enter your e-mail address and name. Make sure you choose **Saved to disk** not Emailed to the CA then click **Continue**



Save As:

Tags:

Where:

You can save it anywhere on your computer, I choose the Desktop.

Great! Ok, now go back to you **Development** page at the CSR page you were at, then click **Continue** at the bottom of the page



Generate your certificate.

When your CSR file is created, a public and private key pair is automatically generated. Your private key is stored on your computer. On a Mac, it is stored in the login Keychain by default and can be viewed in the Keychain Access app under the "Keys" category. Your requested certificate is the public half of your key pair.

Upload CSR file.

Select .certSigningRequest file saved on your Mac.

Choose File...

Alright, now you are going to find that CSR that we just got and upload it.

Hit **Choose File...**load it up and click **Continue**



Your certificate is ready.

Download, Install and Backup

Download your certificate to your Mac, then double click the .cer file to install in Keychain Access. Make sure to save a backup copy of your private and public keys somewhere secure.

	Name:	iOS Development: Trevor Beaton
	Type:	iOS Development
	Expires:	Jul 26, 2017

Download

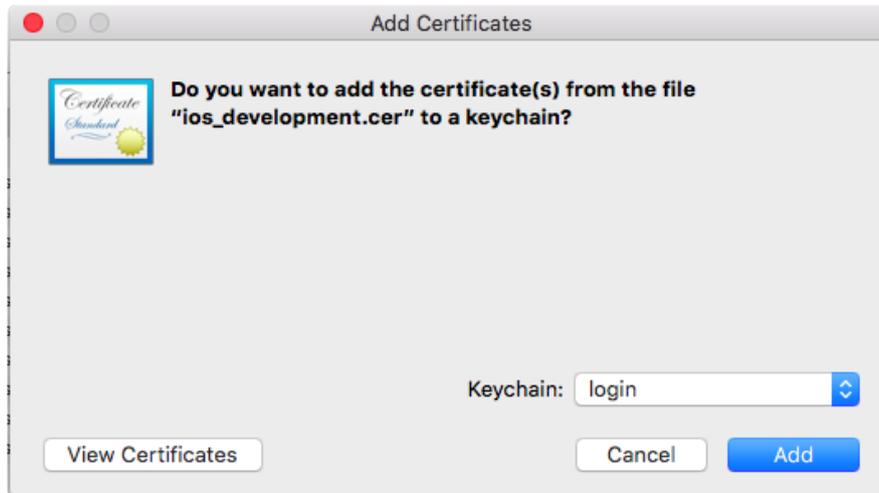
Documentation

For more information on using and managing your certificates read:

 [App Distribution Guide](#)

Add Another Done

Alright, you should now see this page. Click **Download** then find the file (probably in your Downloads folder) and open it up by double-clicking. It should open up **Keychain Access**. If nothing happens, it was probably already added, if not and an **Add certificate** screen popped up for you, just click Add.



Distribution Certificate

Now since we have a certificate for our development profile, now we need one for our distribution profile. We going to do this process again but this time it'll be much easier. Now, click on the **Add Another** button.

This time under **Production** choose **App Store and Ad Hoc**

Production

- App Store and Ad Hoc**
Sign your iOS app for submission to the App Store or for Ad Hoc distribution.
- Apple Push Notification service SSL (Sandbox & Production)**
Establish connectivity between your notification server, the Apple Push Notification service sandbox, and production environments to deliver remote notifications to your app. When utilizing HTTP/2, the same certificate can be used to deliver app notifications, update ClockKit complication data, and alert background VoIP apps of incoming activity. A separate certificate is required for each app you distribute.

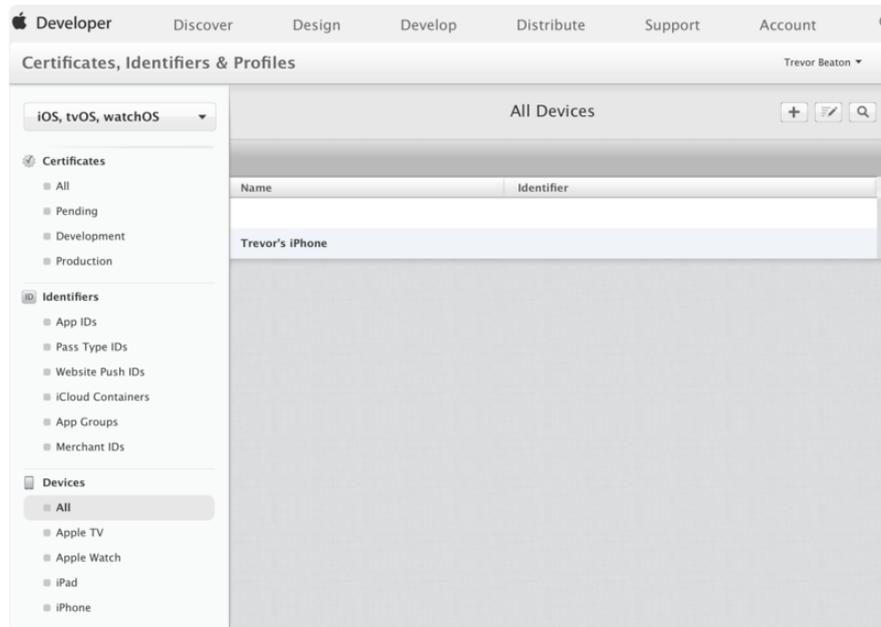
Continue on just like before, you can reuse your CSR file! Once you've gone through that process again, you're all done.

You can exit the **Keychain Access** screen.

Registering your Device

Now we are going to register your iOS device for testing apps. This will let you test your apps on real hardware

Go to your main **Developer** page and into the **Certificates, Identifiers & Profiles** subpage. Under the **Devices** tab, click **All**, then hit + in the up right corner.



Registering a New Device or Multiple Devices

Pre-Release Software Reminder

You may only share Apple pre-release software with employees, contractors, and members of your organization who are registered as Apple developers and have a demonstrable need to know or use Apple software to develop and test applications on your behalf.

Unauthorized distribution of Apple confidential information (including pre-release software) is prohibited and may result in the termination of your Apple Developer Program. It may also subject you to civil and criminal liability.

Register Device

Name your device and enter its Unique Device Identifier (UDID).

Name:

UDID:

Enter your device name and UDID.

An easy way to get your device UDID is through iTunes. Make sure your device is connected to your computer, then in iTunes, go to your device summary. You should see **UDID**:

If you don't see the UDID, you may need to click on the **Serial Number**

The UDID is a crazy long set of numbers and letters. Copy that UDID number and paste it into the UDID field on the Registration page.

Choose and enter a name for your device.

iPhone 6 Plus

Capacity: 55.48 GB	iOS 9.3.2
Phone Number:	A newer version of the iPhone software is available (version 9.3.3). To update your iPhone with the latest software, click Update.
Serial Number:	

 **Review and register.**

Confirm the device information is correct. Once this device is registered, you will not be able to edit the UDID and can only edit the name or disable it.

Name:	Trevor's iPhone
Model:	iPhone 6 Plus
UDID:	

You can register 98 more of this device type.
The maximum number of each device type that you can register per membership year is:
Apple TV: 100
Apple Watch: 100
iPad: 100
iPhone: 100
iPod Touch: 100

You may reset your device list at the start of your next membership year.

At the bottom, click **Register**. Once you've done that, that's it! Your device is now registered and can be used for testing with your app.

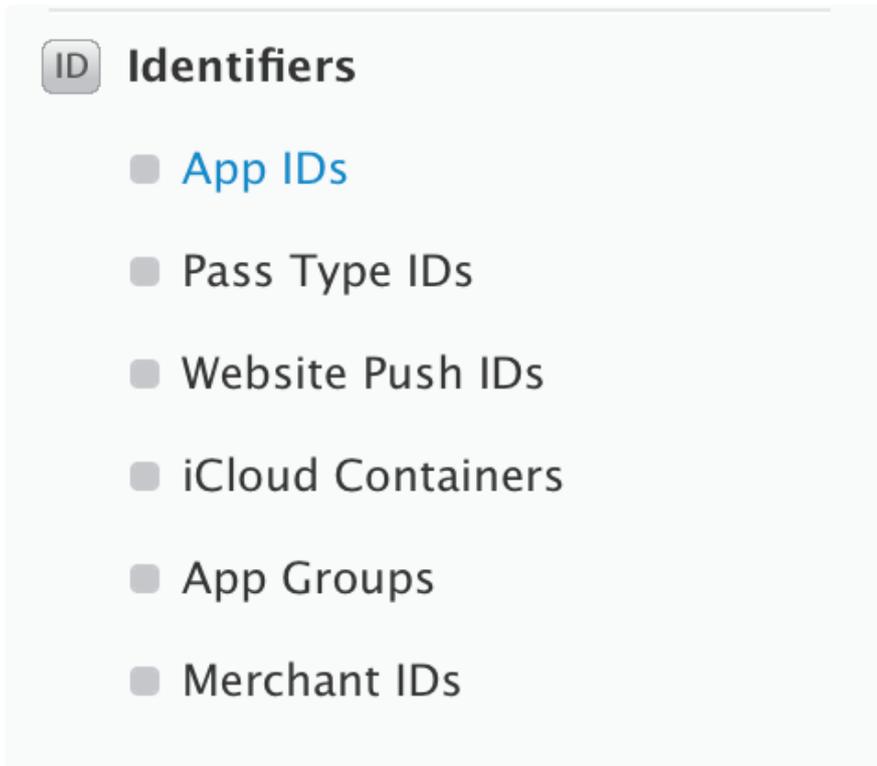
Onward!

Setting up your App ID

This step is SUPER easy!

Basically, every app needs a unique bundle identifier so that your app can be found out of the millions of apps in the App Store. The App ID is made up of 10 characters given to you by Apple as a prefix + an additional string of your choosing.

Ok, at the main page on the [Apple Developer Website \(https://adafru.it/pAp\)](https://adafru.it/pAp), click on the **Certificates, IDs & Profiles** tab. Then click on the **App IDs** tab.



Above you'll see I already have a few App IDs. To create your first ID, click on the + button in the top right

The App ID string contains two parts separated by a period (.) — an App ID Prefix that is defined as your Team ID by default and an App ID Suffix that is defined as a Bundle ID search string. Each part of an App ID has different and important uses for your app. [Learn More](#)

App ID Description

Name:
You cannot use special characters such as @, &, *, ', "

App ID Prefix

Value: (Team ID)

This is where you'll add your product or app name. After you enter your **App ID Description** name make sure that you choose **Explicit App ID** also remember to use a reverse domain name string for this (It's recommended)

App ID Suffix

Explicit App ID

If you plan to incorporate app services such as Game Center, In-App Purchase, Data Protection, and iCloud, or want a provisioning profile unique to a single app, you must register an explicit App ID for your app.

To create an explicit App ID, enter a unique string in the Bundle ID field. This string should match the Bundle ID of your app.

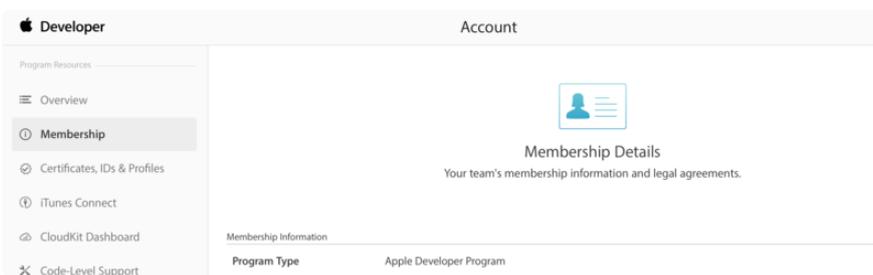
Bundle ID:

We recommend using a reverse-domain name style string (i.e., com.domainname.appname). It cannot contain an asterisk (*).

You can use the default **App Services** (they're adjustable later) and **Continue & Register**. Once you're done with that, you can now proceed to creating development & distribution provisioning profiles.

Creating Development & Distribution Provisioning Profiles

In order to distribute an app, there needs to be an individual, a group or company to claim ownership of it and that's where the **Distribution Certificate** and a **Development Certificate** will be needed. It's job is to authenticate and identify you as an individual or your team in a **Distribution Profile** to present your app to the app store.

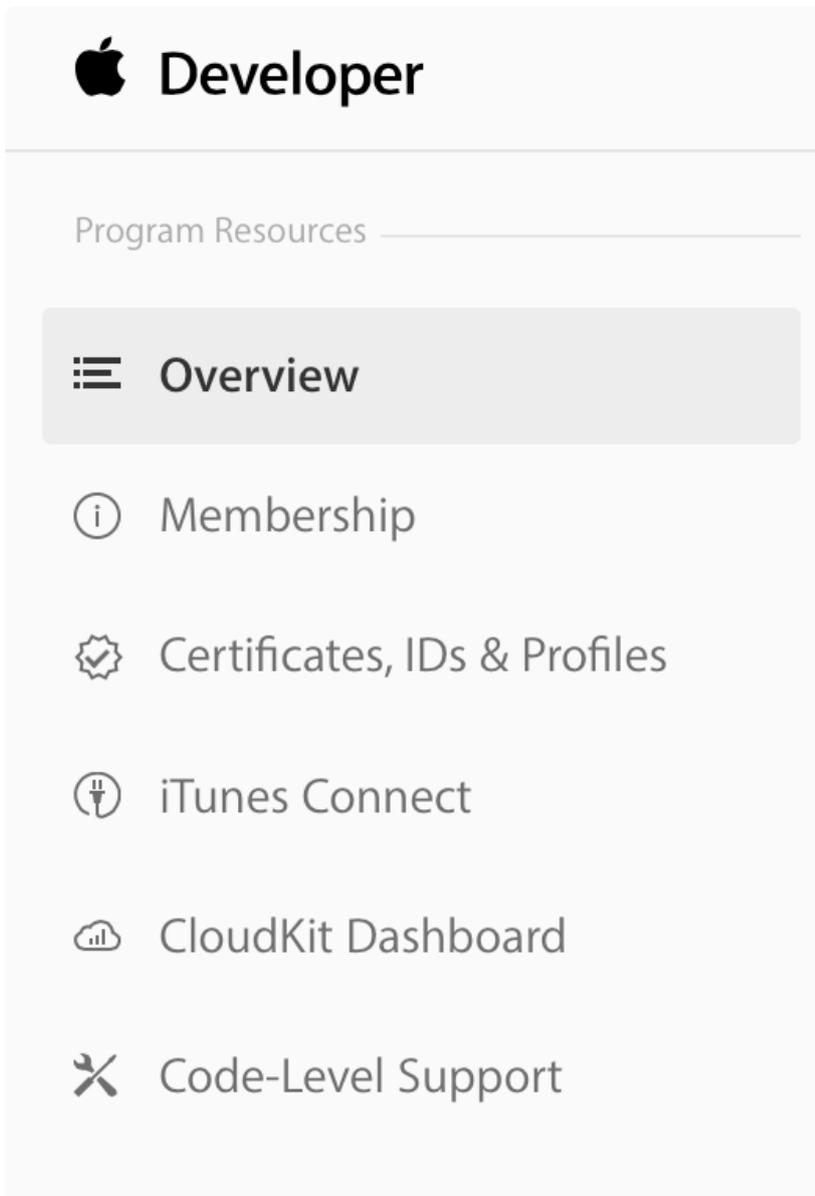


Development Profile

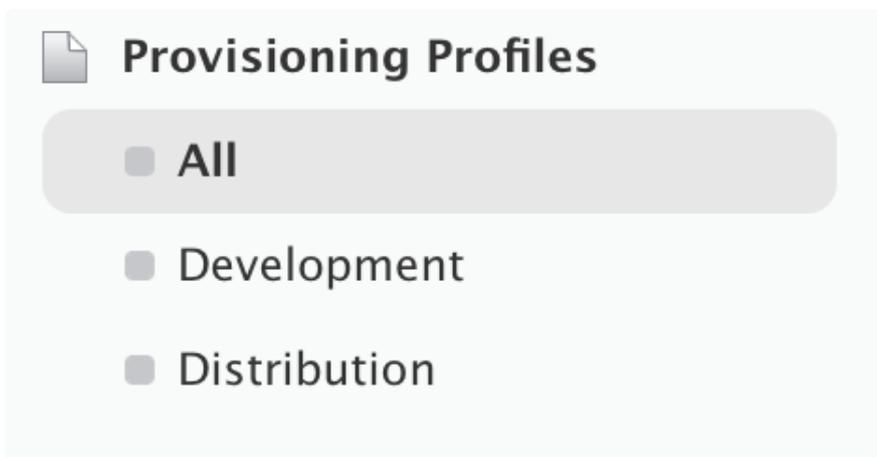
Now we're going to create a development provisioning profile.

You'll need a provisioning profile in order to release any content onto the Apple App Store. Additional information on iOS Provisioning Profiles can be accessed [here \(https://adafru.it/19ta\)](https://adafru.it/19ta) once you've signed in to your Apple Developer Account.

Login to your [iOS Developer Portal \(https://adafru.it/19tb\)](https://adafru.it/19tb) then click on the **Certificates, ID's & Profiles** tab (this should be your favorite page by now!)



Once you're there, scroll down to "Provisioning Profiles", then click on **All**



Click the [+] button to the right of the **Add iOS Provisioning Profiles** title.

On the next page, you'll choose your type of provisioning profile. Under **Development**, select **iOS App Development**, then hit **Continue**.



What type of provisioning profile do you need?

Development

- iOS App Development**
Create a provisioning profile to install development apps on test devices.
- tvOS App Development**
Create a provisioning profile to install development apps on tvOS test devices.

Next you'll be asked to select an App ID - choose the one you created in the previous step of this guide.



Select App ID.

If you plan to use services such as Game Center, In-App Purchase, and Push Notifications, or want a Bundle ID unique to a single app, use an explicit App ID. If you want to create one provisioning profile for multiple apps or don't need a specific Bundle ID, select a wildcard App ID. Wildcard App IDs use an asterisk (*) as the last digit in the Bundle ID field. Please note that iOS App IDs and Mac App IDs cannot be used interchangeably.

App ID: ladyada test app ([REDACTED].net.ladyada.testapp) ▼

Now select your **iOS Development Certificate** which we created previously. Then hit **Continue**.



Select certificates.

Select the certificates you wish to include in this provisioning profile. To use this profile to install an app, the certificate the app was signed with must be included.

<input checked="" type="checkbox"/> Select All	1 of 1 item(s) selected
<input checked="" type="checkbox"/> Limor Fried (iOS Development)	

Next select your iOS device or devices which we registered earlier...



Select devices.

Select the devices you wish to include in this provisioning profile. To install an app signed with this profile on a device, the device must be included.

<input checked="" type="checkbox"/> Select All	1 of 1 item(s) selected
<input checked="" type="checkbox"/> ladyada's ipad	

Now you'll need to choose a profile name. Something descriptive like - **My App Distribution Profile** should work. Next, hit **Continue**



Name this profile and generate.

The name you provide will be used to identify the profile in the portal.

Profile Name:

Type: **iOS Development**

App ID: **Xcode iOS App ID Beaton T Adafruit-Test**

Certificates: **1 Included**

Devices: **1 Included**

It will be created, all you have to do is **Download** it

Now just hit the download button, then your **Development Provisioning Profile** will be downloaded to your hard drive. **Drag the downloaded file onto the Xcode's app icon to install it.**

Well done! Just one more profile to go...

Distribution profile

To create your Distribution Provisioning Profile, follow the same steps as above but choose **App Store Distribution** as the profile type and name the profile as **My App Distribution Profile**. Remember, we need each type of profile to match its certificate.



What type of provisioning profile do you need?

Development

- iOS App Development**
Create a provisioning profile to install development apps on test devices.
- tvOS App Development**
Create a provisioning profile to install development apps on tvOS test devices.

Distribution

- App Store**
Create a distribution provisioning profile to submit your app to the App Store.
- tvOS App Store**
Create a distribution provisioning profile to submit your tvOS app to the App Store.
- Ad Hoc**
Create a distribution provisioning profile to install your app on a limited number of registered devices.
- tvOS Ad Hoc**
Create a distribution provisioning profile to install your app on a limited number of registered tvOS devices.

Cancel

Continue

Go through the whole process including downloading and dragging the profile onto **XCode**

Once you have both your **Development** and **Distribution** provisioning profiles created, downloaded, and installed you're ready to move on to the next step.

Testing your App

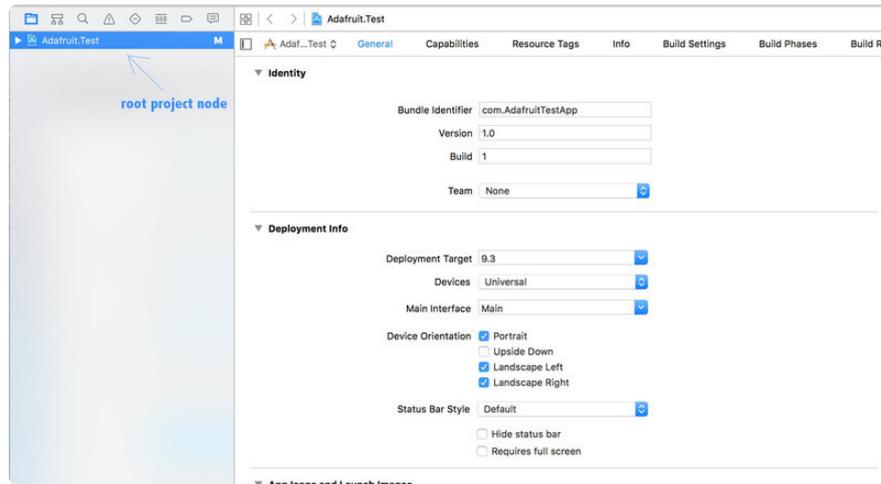
Before going farther into this guide, it'd be best for you to test your app on your device or Xcode's Simulator. Below we offer a free sample app for you to download and test.

Adafruit.Test.2016.zip

<https://adafru.it/pJC>

Download and unzip the sample app that we've provided above, then open up Xcode if it isn't open already, so we can get started. If you already have an app that you'd like to test, you can test that instead.

Once you've opened the app you've chosen within Xcode, locate your **Project navigator** then click on your **Root Project node** as seen below.

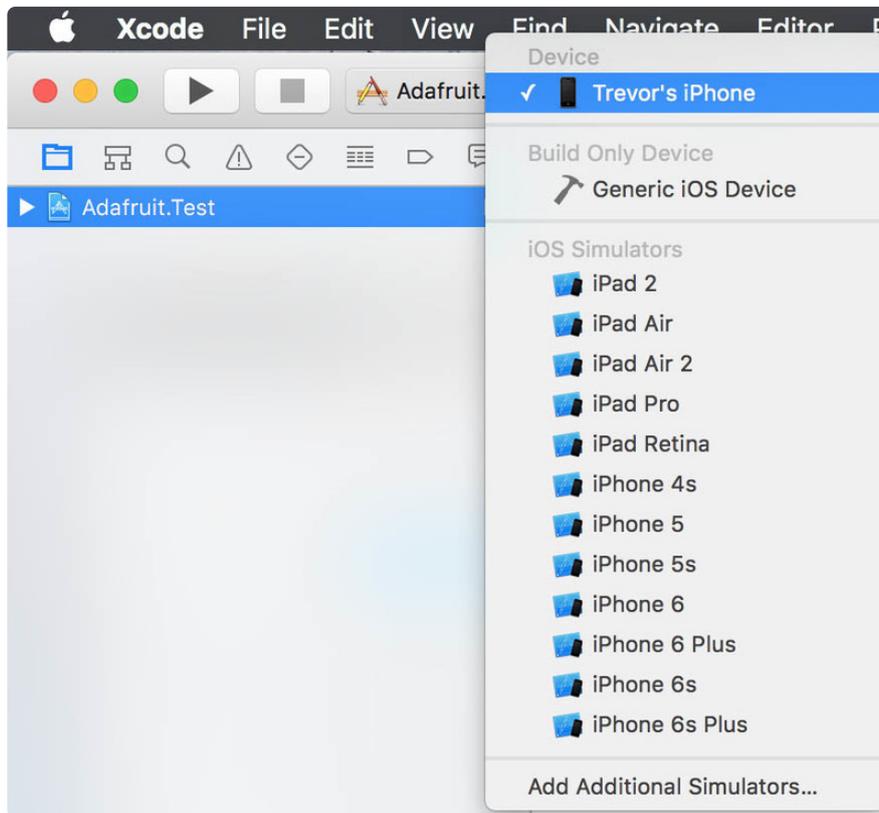


Once you've selected the Root Project node, you should see a category called **Identity**. Make sure that your Bundle Identifier field is filled in with a unique bundle identifier name. If it's left blank you'll receive an **Invalid Argument** error when you start to run your app. Also if it's not already selected choose your account within the **Team** section.

Below that you'll see your **Development Info** category. Make sure you set **Deployment Target** to 9.3 or higher if available.

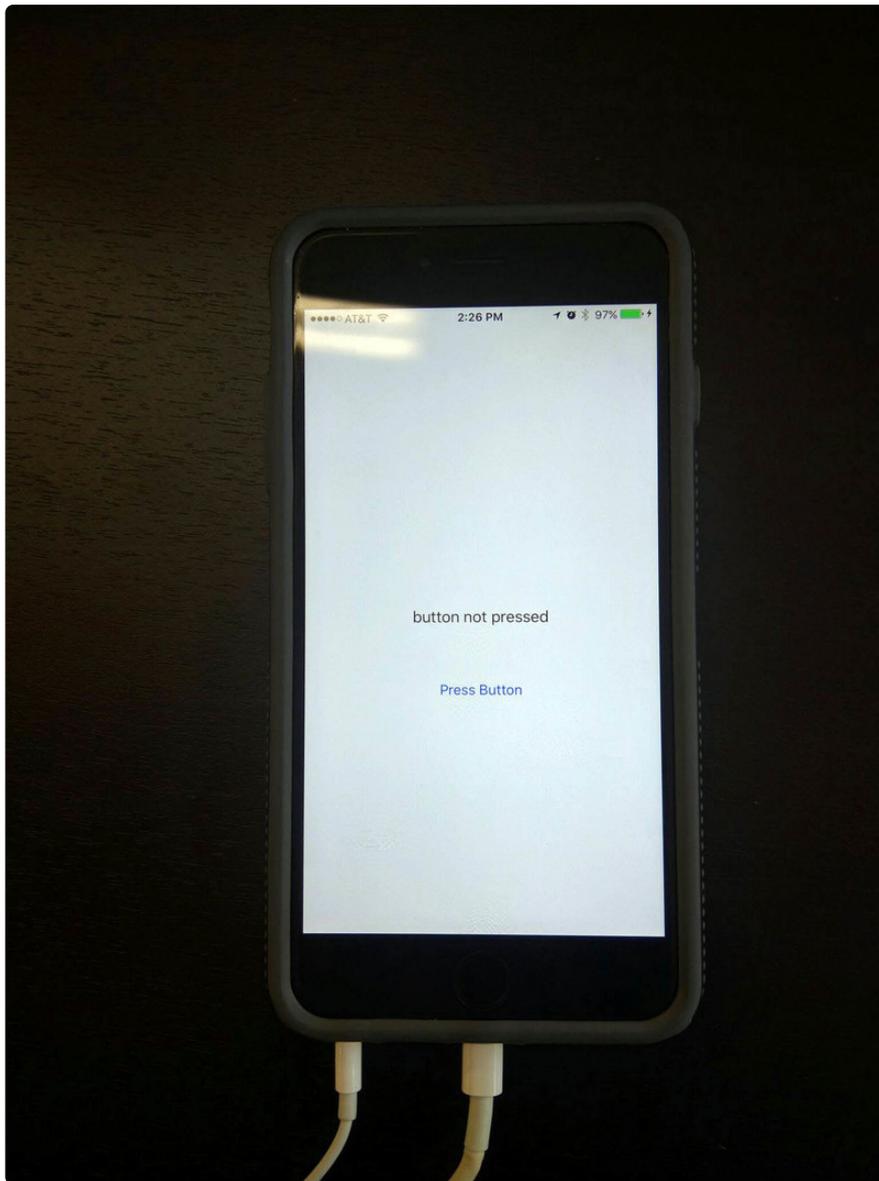
Ok, we are almost ready to build. Before we hit run we'll need to select our device in the **Device Scheme** that's located in the upper left area of the screen.

Once you've done that, hit the **Build** button that looks like a play button or hit **⌘R**.

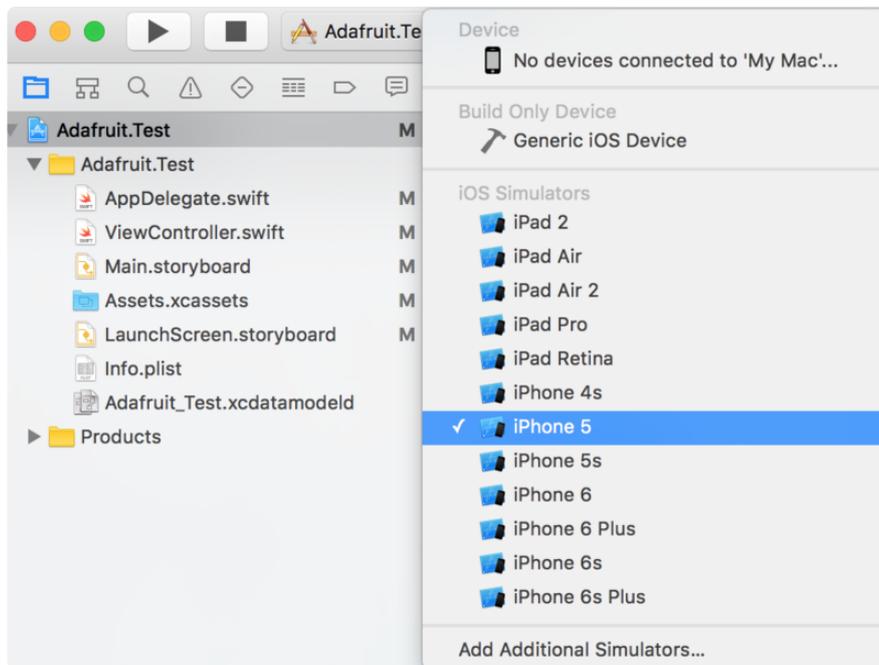


If Xcode doesn't recognize your device make sure your Team account is selected under the "Identity" category then reset Xcode

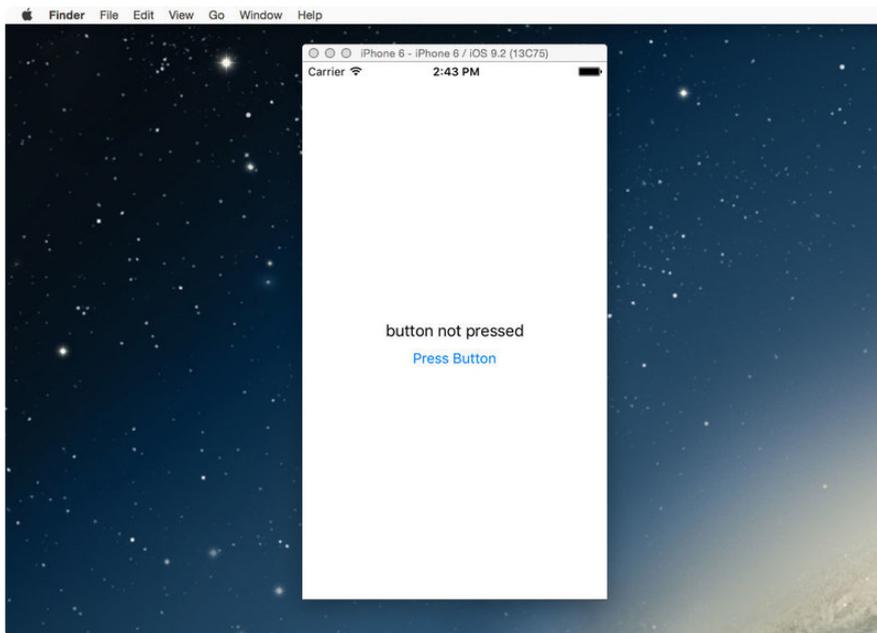
Once you've hit the Build button, you should see the app display on your device.



You can do the same in **Simulator**. Instead of choosing your device in the **Scheme Chooser**, you can choose various iPad and iPhone versions that will run your app within **Simulator**. Once you've selected a device version hit **⌘R**. This will launch the simulator so you can try out the fancy new app and also take screenshots you'll need!



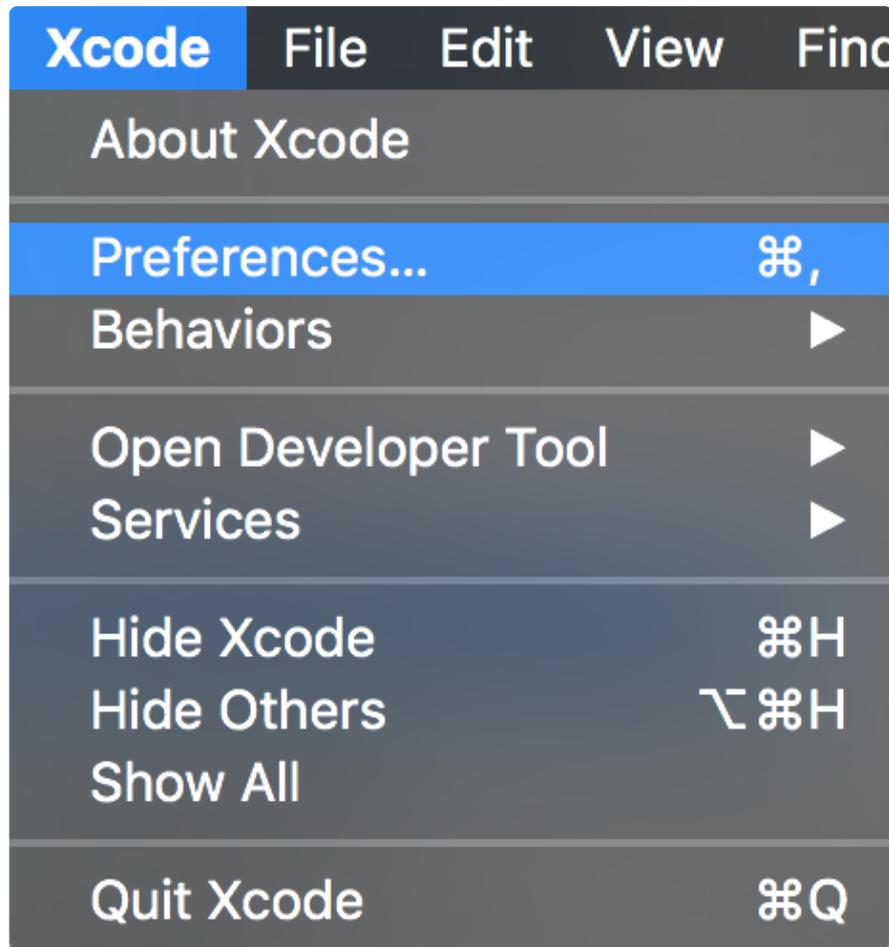
To make screenshots of the simulator hit ⌘S within the IOS Simulator. Remember this step, you'll need to make screenshots of your app later on in the guide.



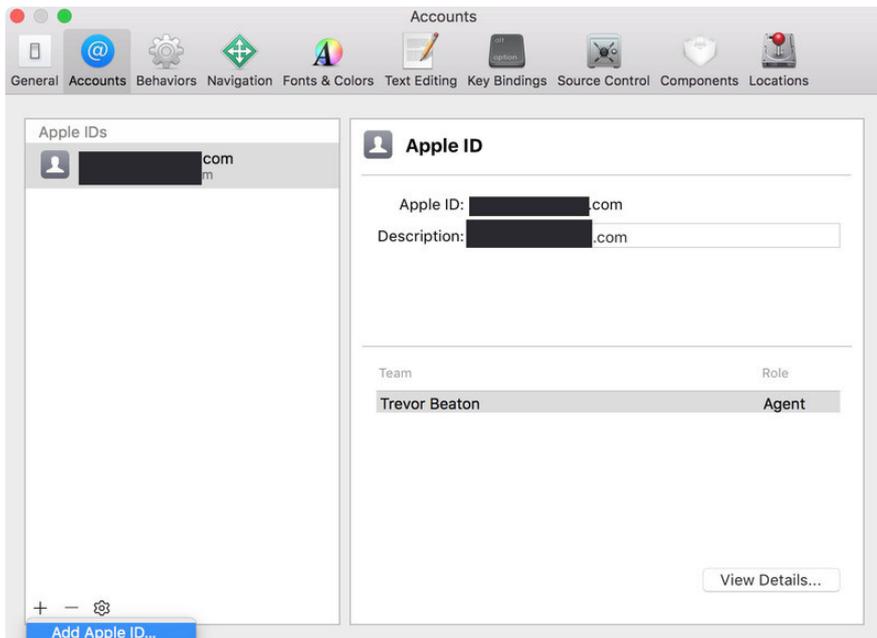
You might encounter a Developer Disk Image error. To fix that you'll need to update your software. Make sure you're running El Capitan so that you'd have the most recent version of Xcode so that it'd be able to use your mobile device.

Getting your App ready for Distribution

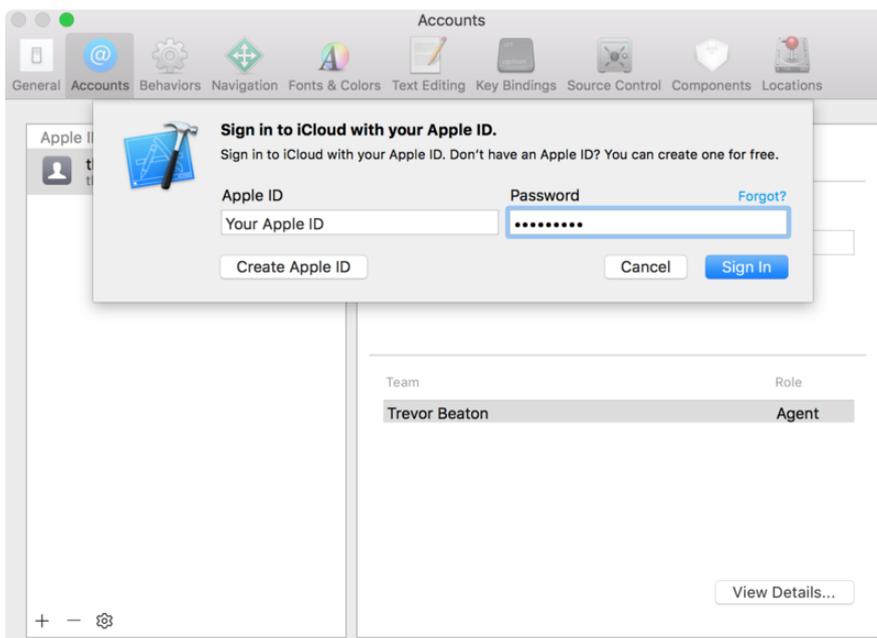
Now you'll need to manage your provisioning and distribution profiles within **Xcode**. Go to the Xcode drop-down menu and select **Preferences**.



While you're on the Preferences page click on the **Accounts** tab. Once you do that you'll need to add your **Apple ID**. At your bottom left you should see a [+] button - click on it and select "**Add Apple ID**"



You'll need to add your **Apple ID** info here...



Now that you've signed into your Apple ID, you'll need to download your provisioning profiles that we made earlier. On the same page click the "**View Details...**" button.

Trevor Beaton
[redacted].com

Signing Identities	Action
iOS Development	
iOS Distribution	
Mac Development	
Mac App Distribution	
Mac Installer Distribution	
Developer ID Application	
Developer ID Installer	

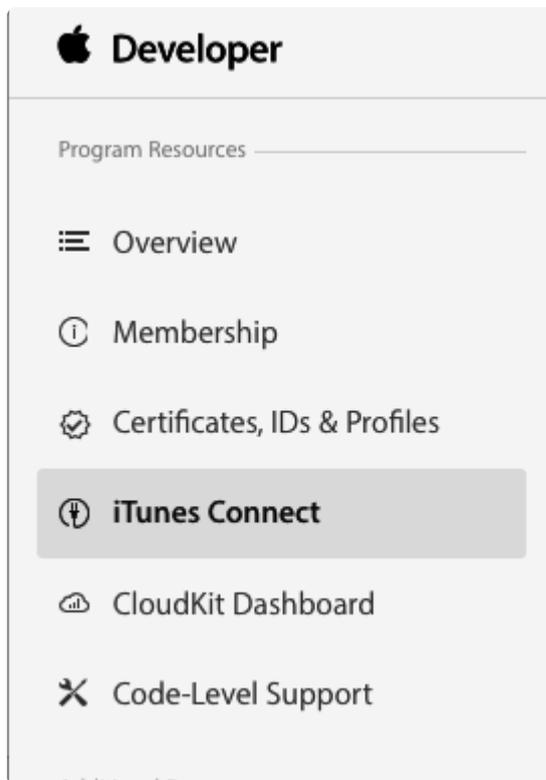
Provisioning Profiles	Expires	Action
A newer name	7/19/17	
Another Name	7/19/17	
[redacted]	2/5/16	
Last one	7/14/17	Download
My Name	7/14/17	
Name	7/14/17	
Test	7/13/17	
[redacted]	7/14/17	
Your Profile Name	7/13/17	Download
hkvbj,	7/13/17	Download
iOS Team Provisioning Profile: *	7/15/17	

Download All Done

Here you can download your **Provisioning profiles** and **Signing Identities**. Click on the **"Create"** buttons next to your signing identities. If your account has any uninstalled provisioning profiles, you can download them individually or all together with the **"Download All"** button on the bottom left. Go ahead and click the **"Download All"** button then hit **"Done"** when you're finished.

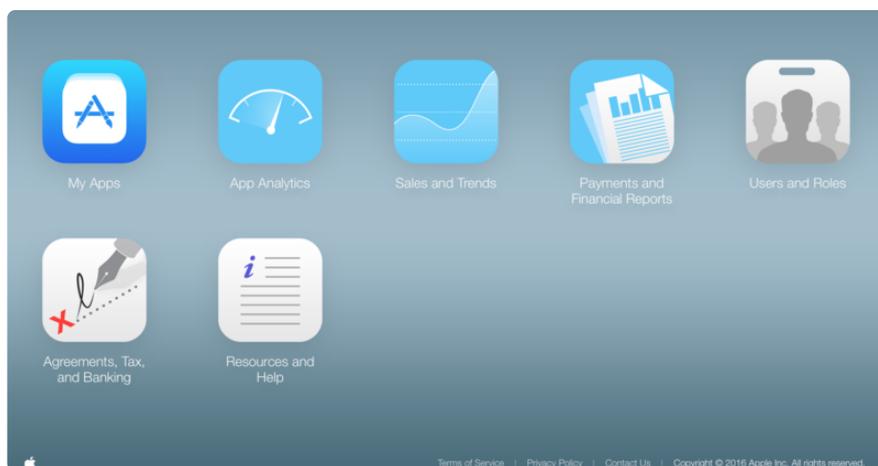
Once you're done that, we'll be ready to submit your app to iTunes Connect.

Create an App listing in iTunes Connect



You've seen the **Provisioning profile** page, but what is **iTunes Connect**? It's a dashboard that allows you to manage your apps, view reports of your performance in the App Store, manage your contracts and more. When you enroll in the **iOS Developer Program**, you'll have access to **iTunes Connect** as well.

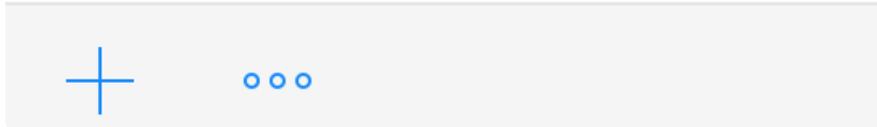
Note that this is not the Connect from within iTunes the app but rather the developer version available from when you log into your developer account!



First, click on "**My Apps**" in the upper left.

On the next screen, click the [+] button.

iTunes Connect My Apps ▾



From the drop down menu choose "New App".

Now you just need to enter your app information...

New App

Platforms ?
 iOS tvOS

Name ?
Adafruit Test

Primary Language ?
English ▾

Bundle ID ?
ladyada test app - net.ladyada.testapp ▾

SKU ?
123456

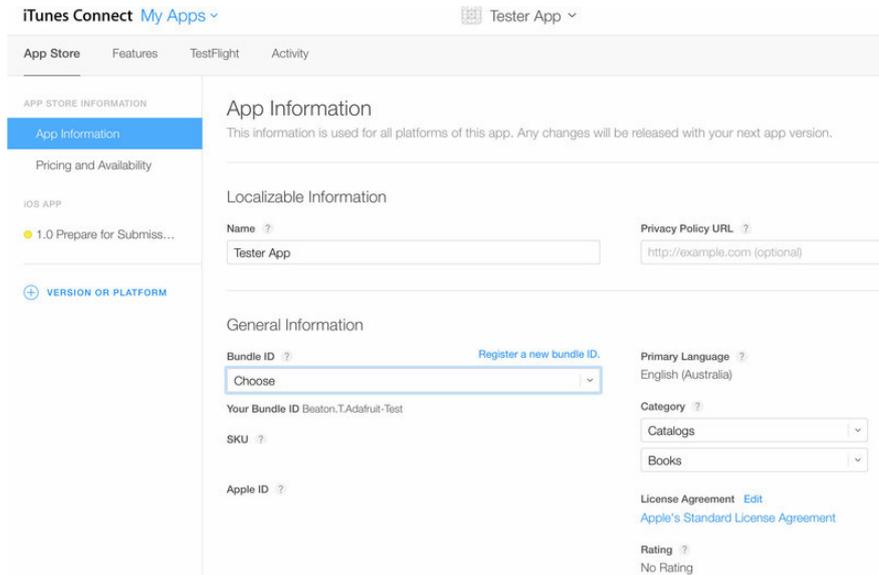
Cancel Create

Once your App information is entered, you'll be able to continue by clicking the "Create" button. Now the app detail screen will appear, here you'll need to add some more information.

Now that you've created your app listing, you'll be able to submit your app to the **App Store** via **Xcode**.

Prepare & Submit your app through Xcode

This is the final step in the app development process. Here, you should double check all your information.

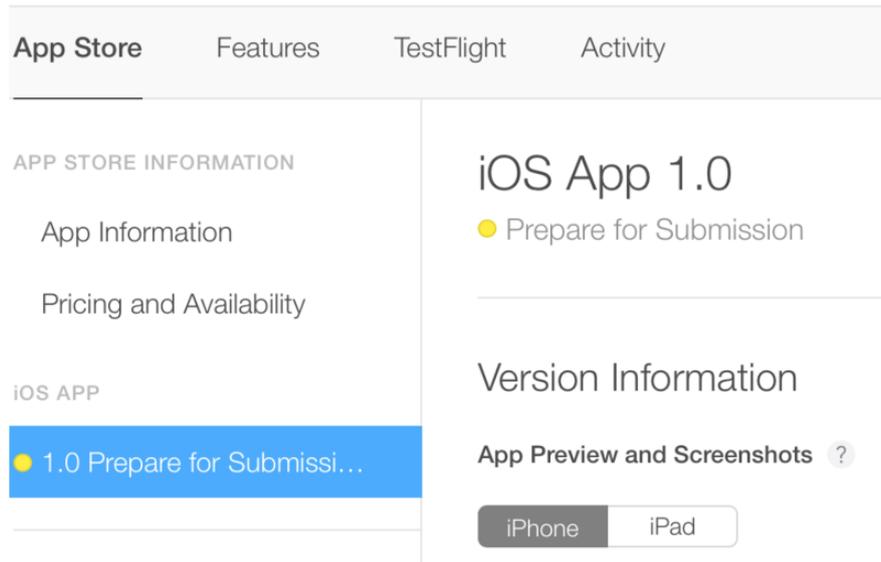


After you've added your additional information, make sure you save it by clicking the **Save** button on your upper right.

Now proceed to the **Pricing and Availability** tab on your left. Here is where you'll choose how much you'll charge your customers. Don't forget to save when your progress when you're done!

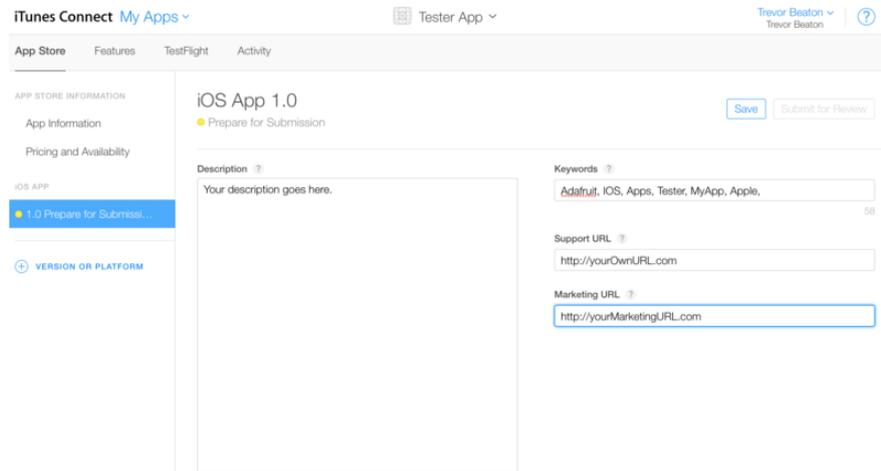
Preparing for submission to iTunes Connect

You'll need to make screenshots of your app which can be done using the iOS Simulator.



Note: You're required to upload screenshots of your app before submitting it to the App Store. App screenshots can be captured while running the your app in the iOS Simulator and hitting Command+S. You'll need to create a screenshot for each mobile device depending on its screen resolution.

Your next step requires you to have a description for your app and special keywords so that your app can be found in the **App Store**.



In **General App Infomation** you'll need to add your App icon. It must be **1024 by 1024 pixels**, any other size will not do.

In the **Copyright** field you can just add your company name or your name.

You'll also enter your address and contact info.

The screenshot shows the 'General App Information' section of the iTunes Connect interface. The app is named 'iOS App 1.0' and is in the 'Prepare for Submission' state. The 'App Icon' field has a 'Choose File' button. The 'Version' is set to '1.0'. The 'Rating' is 'No Rating'. The 'Copyright' field is empty. The 'Trade Representative Contact Information' section includes a checkbox for 'Display Trade Representative Contact Information on the Korean App Store.' The 'Trevor Beaton' contact information is filled out with: First name (Trevor), Last name (Beaton), Address (123 Skip St.), City (Manhattan), State (New York), Zip (00000), and Country (United States). There are also fields for 'Phone number' and 'Email'.

You'll need to add your contact info here again. This area is for the person reviewing your app, this way they'll know how to contact you. You can also leave a note for them.

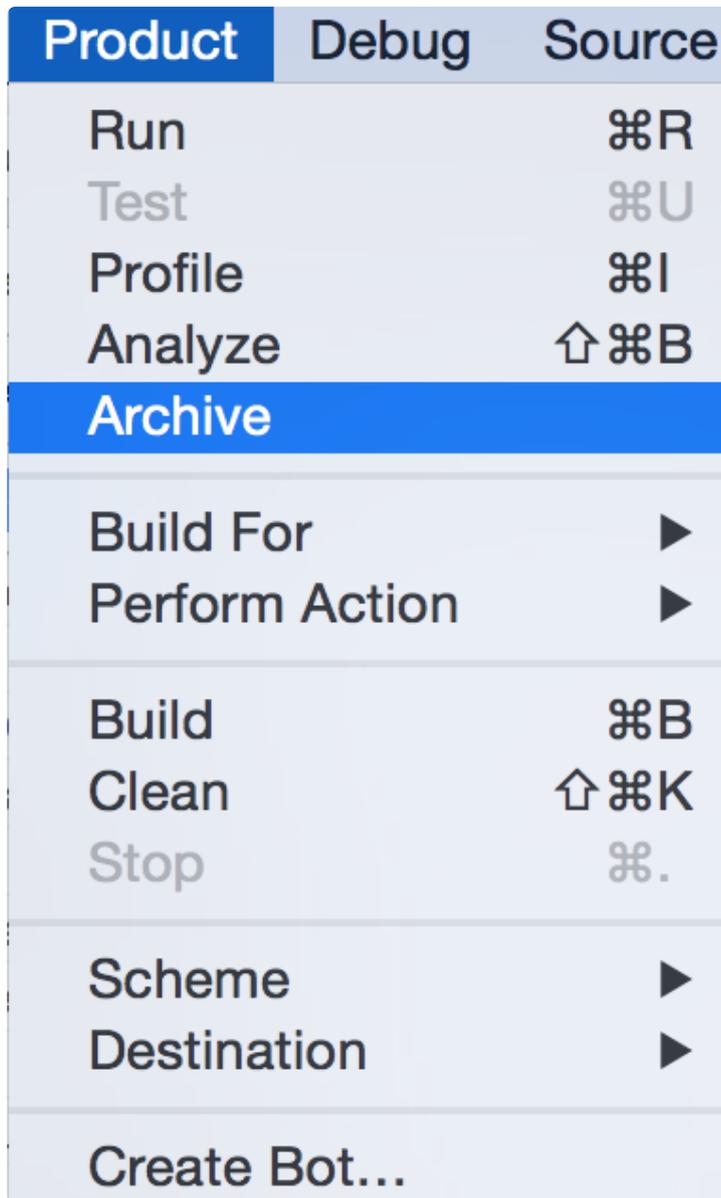
Now you can use the **Version Release** to choose when you want your app to be released. You also have the option to release the app as soon as it's approved or at a specified date.

The screenshot shows the 'App Review Information' section of the iTunes Connect interface. The 'Contact Information' section includes fields for 'First name', 'Last name', 'Phone number', and 'Email'. The 'Demo Account' section has a checked checkbox for 'A demo account is required to use all the features of the app.' and fields for 'User name' and 'Password'. There is a 'Notes' text area. The 'Version Release' section contains a paragraph of text explaining the release process and options for immediate release, promotional codes, or beta testing.

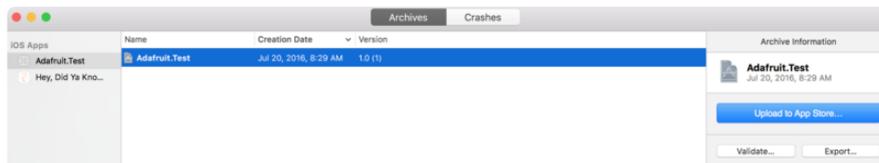
Now you need to upload your app from **Xcode** to **iTunes Connect**.

In Xcode make sure your device is selected in the device and simulator scheme before Archiving your app.

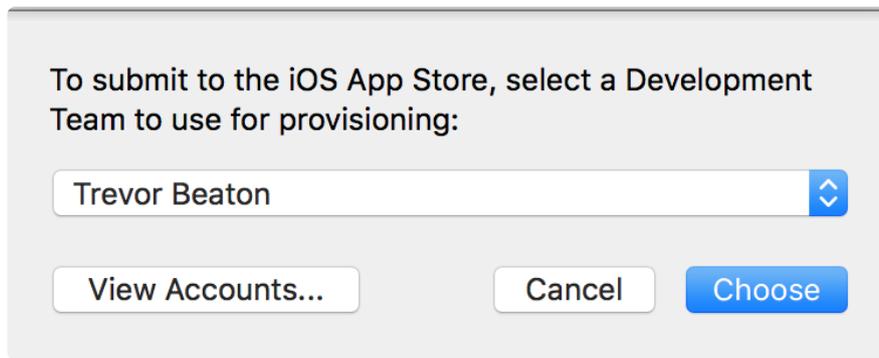
Under the **Products** drop down menu in Xcode, select click on **Archive**.



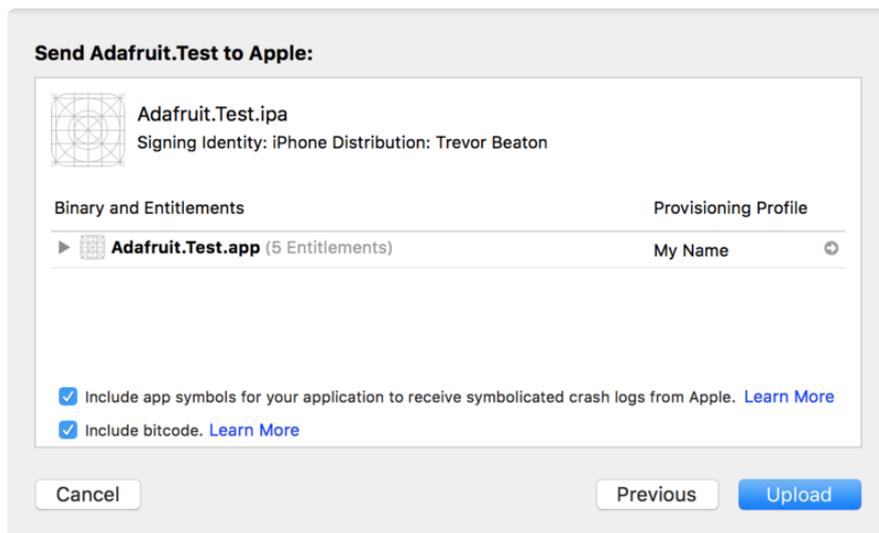
This screen will pop up. Choose the app that you're planning to use, then Hit the **Upload to App Store...** button.



Choose your Development Team to use for provisioning...

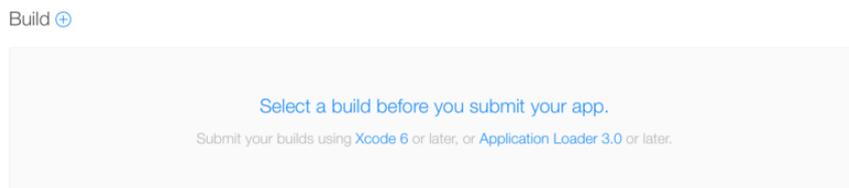


Now you can Upload your App to iTunes Connect.



If we did everything correctly, we'll be able to upload the binary to finish the certification process. Once your upload is successful, head back to your App information page.

Scroll down to your Build setting. Click **Select a Build** before you submit your app. Then select your Build.



You might need to wait a few minutes for your app to upload.

Add Build

Build	Upload Date
<input checked="" type="radio"/>  1.0 (1)	Aug 11, 2016 at 5:24 PM

[Cancel](#) [Done](#)

Now is a good time for you to double check your info and make sure you have everything Apple asked you for. Now go to the top of the page to save your progress.

When you're done getting things in order just hit "**Submit for Review**", kick your feet up and wait for Apple to review your App. The wait time varies, it can take a few days to a week or two. But after that if everything works out you'll have your own App in the Apple App Store. Great Job!