

# **Setup Your Development Certificate**

LAB 02X: Set up Certificate

# Objective

Let's setup your development certificate.

# Connect your iPad to your laptop

If you haven't told them not to do so, iTunes and iPhoto may launch on you.

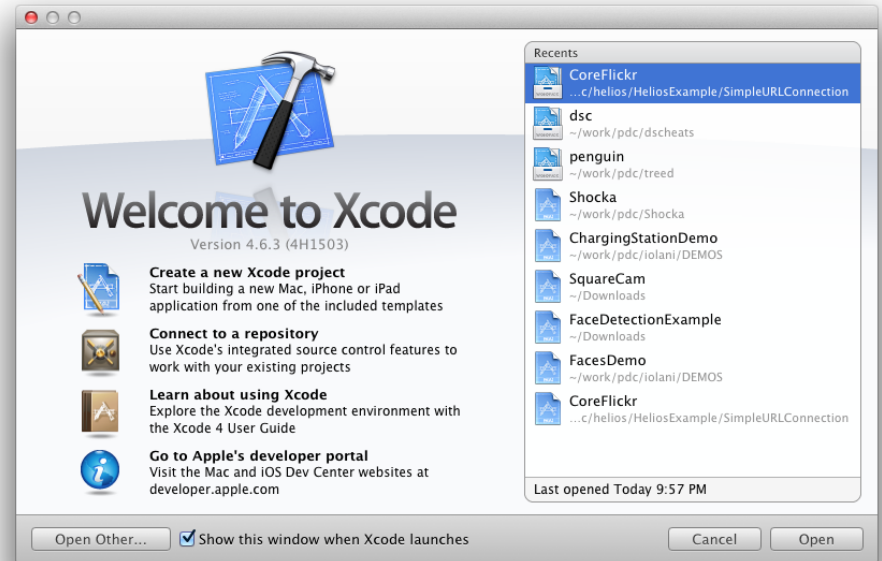
You can close them. They aren't helping. I know we used iTunes in class today to get the UDID. I think it's actually easier to just get it from Xcode. So, that's what we'll do now.

# Open Xcode

Xcode should welcome you with a screen like this.

Or, you might see the last project you worked on. Either way, you don't care.

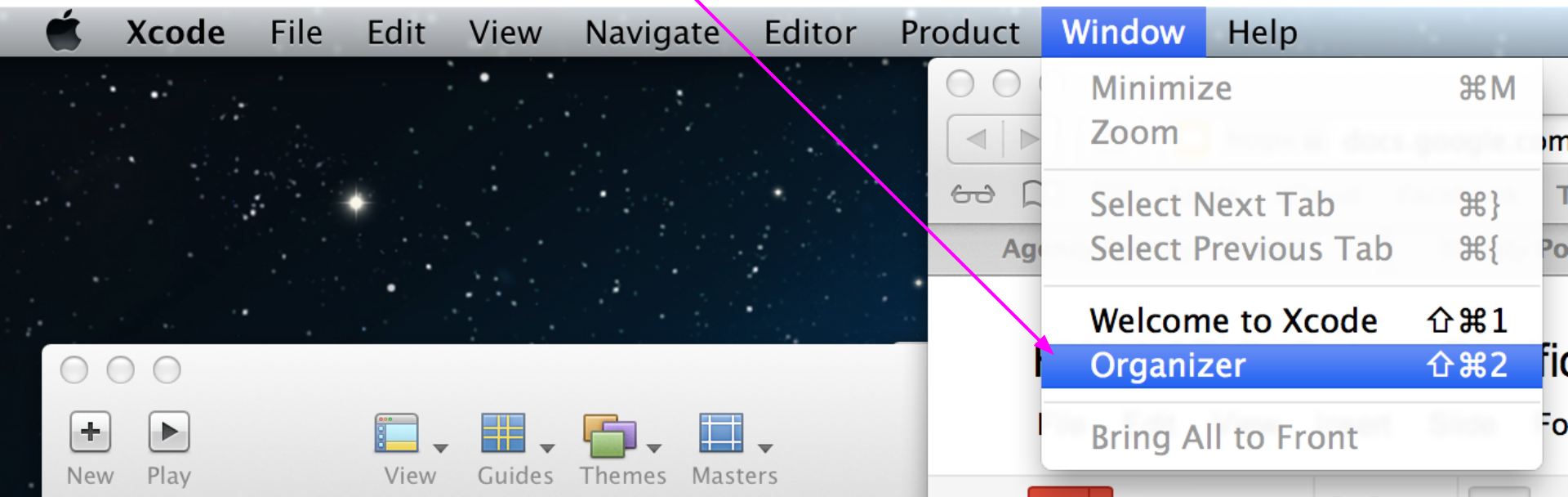
Hit **Cancel** to dismiss this window (if you see it).



# Open the Organizer

With Xcode active, go to the top menu bar and select:

**Window > New > Organizer**



# Voilà, the Organizer!

This is the Organizer.

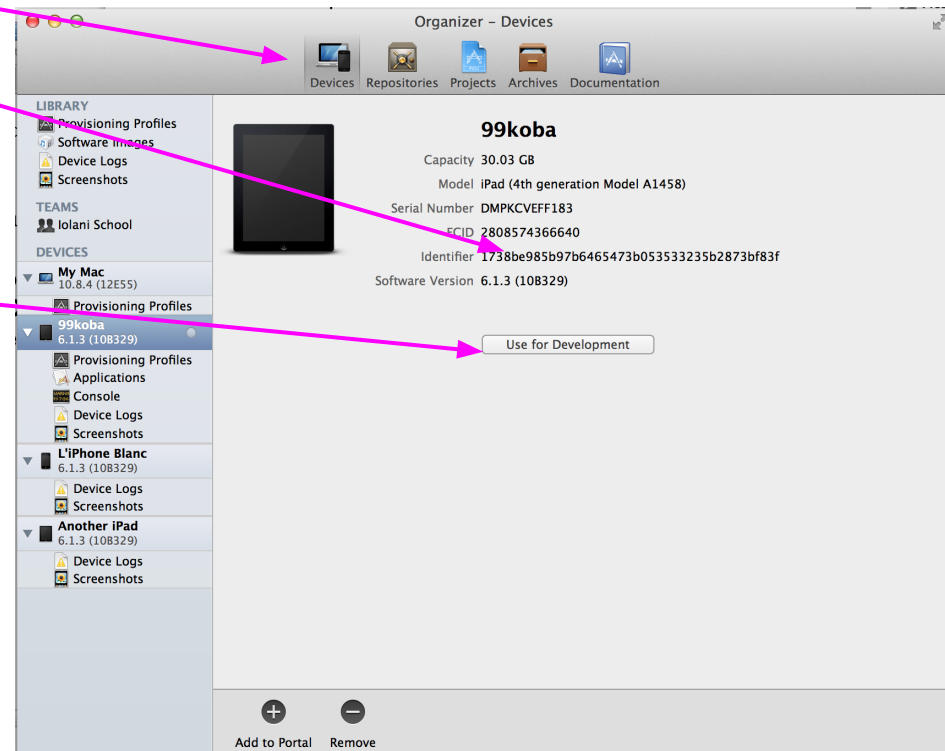
Take a look at the tabs on the top. The first one is **Devices**.

Make sure it's selected. Then double click the long alpha-numeric string in the **Identifier** field.

That's your UDID. It uniquely identifies your iPad. You'll need to add you to your team's provisioning profile.

While you're here, click on the "Use for Development" button.

This let's Xcode know that you want to deploy apps to this iPad. If you don't hit this button, you won't be able to select this iPad when you run your app.



# Create Your Certificate

Creating a developer certificate is a multi-step process. You've already completed many of these steps during class. But, for posterity, I'm adding the complete process here.

Skip ahead to wherever you need to. I won't be insulted.

You need to have your certificate on file with Apple in order to sign your apps in such a way that Apple knows the apps belong to you (or your organization).

Let's get started.



**iPhone Developer: Kyle Oba** [REDACTED]

Issued by: Apple Worldwide Developer Relations Certification Authority

Expires: Wednesday, September 3, 2014 5:09:10 PM Hawaii–Aleutian Standard Time

✓ This certificate is valid

# Open Keychain Access

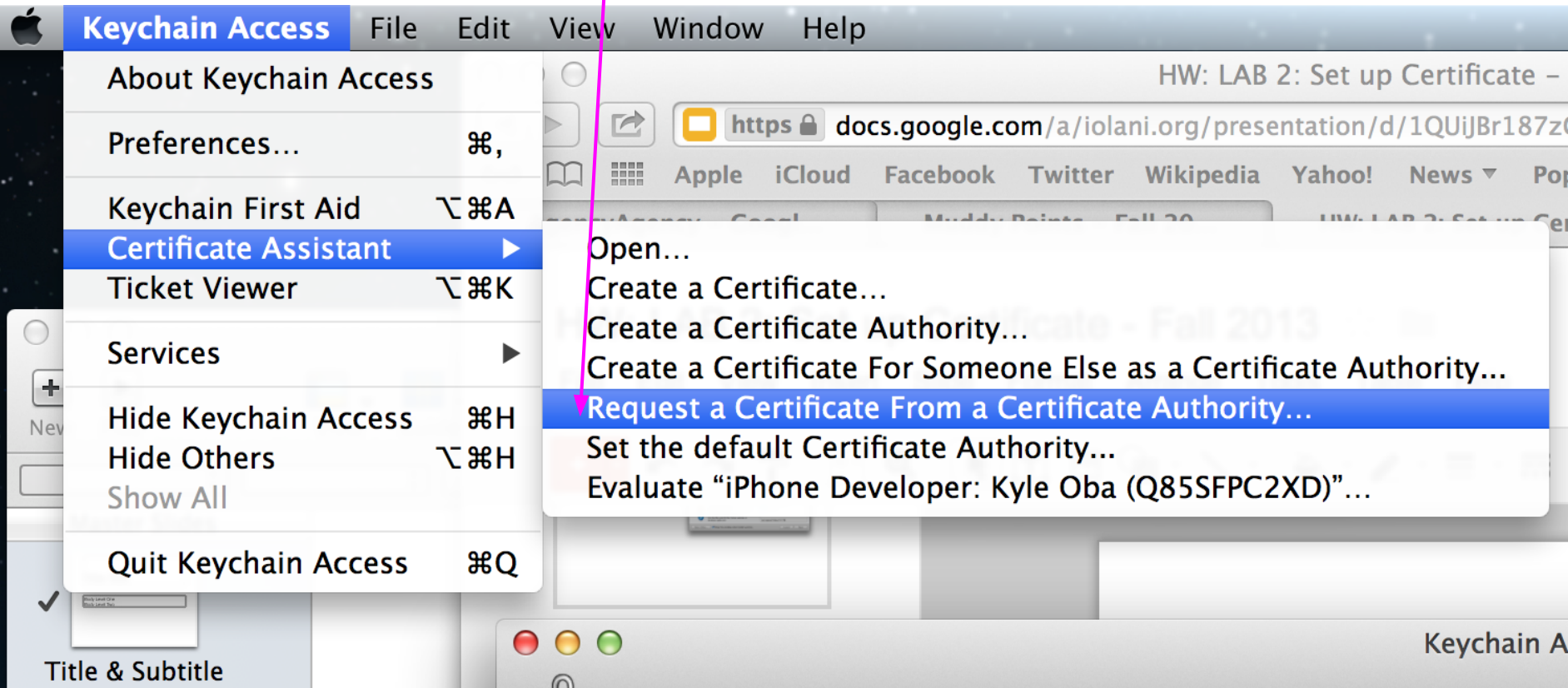


## Keychain Access

Open the **Keychain Access** app.

From the top menu bar, select:

**Keychain Access > Certificate Authority > Request a Certificate From a Certificate Authority...**





# Fill in your Certificate Information

Fill in the form. Do it. Do it.

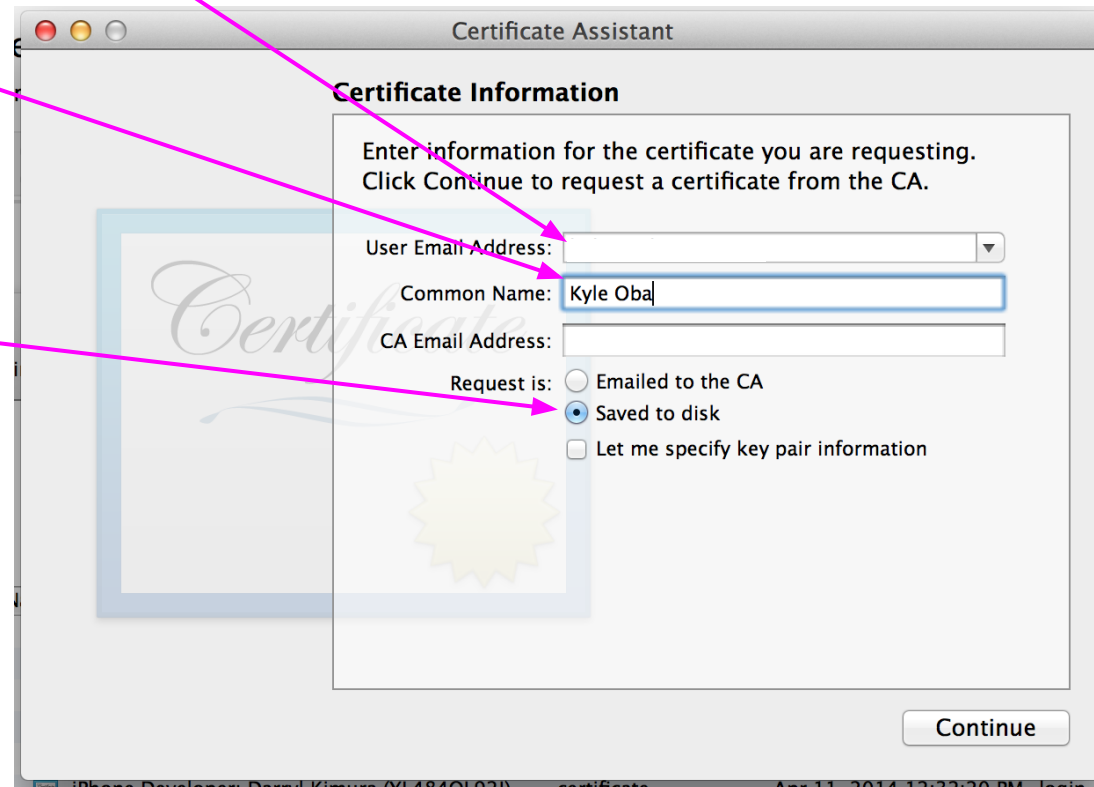
Use your email address for the **User Email Address** field.

Use your full first and last name for the **Common Name** field. Again, your name, not mine.

IMPORTANT: Leave the **CA Email Address** field blank. Even if it says “Required,” just leave it blank. Seriously.

Select the **Saved to disk** option in the **Request is:** area.

Click on Continue and it will ask you where to save the **CertificateSigningRequest.certSigningRequest** file. The default is your **Desktop**, which is fine. Click **Save**.



The screenshot shows the 'Certificate Assistant' window with the 'Certificate Information' section active. The form contains the following fields and options:

- User Email Address:** A text field with a dropdown arrow on the right.
- Common Name:** A text field containing the text 'Kyle Oba'.
- CA Email Address:** A text field.
- Request is:** A section with three radio button options:
  - ☐ Emailed to the CA
  - ☒ Saved to disk
  - ☐ Let me specify key pair information

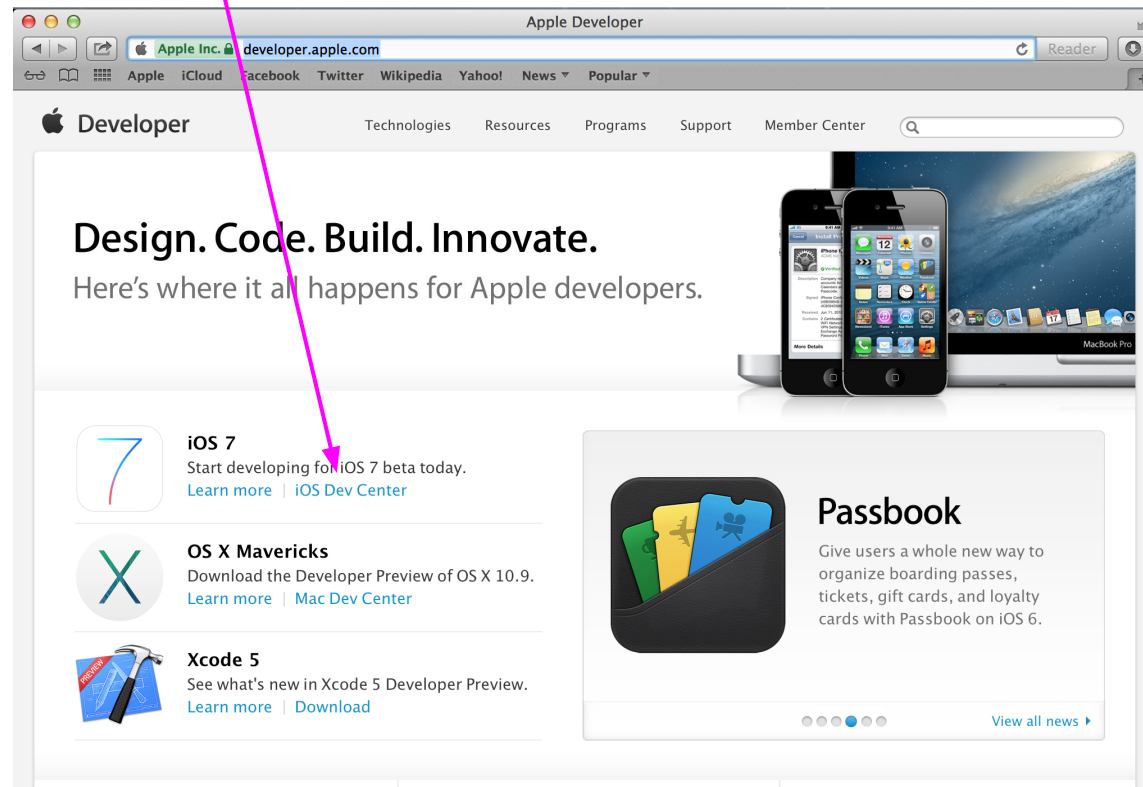
At the bottom right of the window is a 'Continue' button. Three pink arrows point from the instructional text on the left to the 'User Email Address' field, the 'Common Name' field, and the 'Saved to disk' radio button.

# Load your Certificate Signing Request to Apple's Developer Portal

Open the **Safari** browser and go to <http://developer.apple.com>

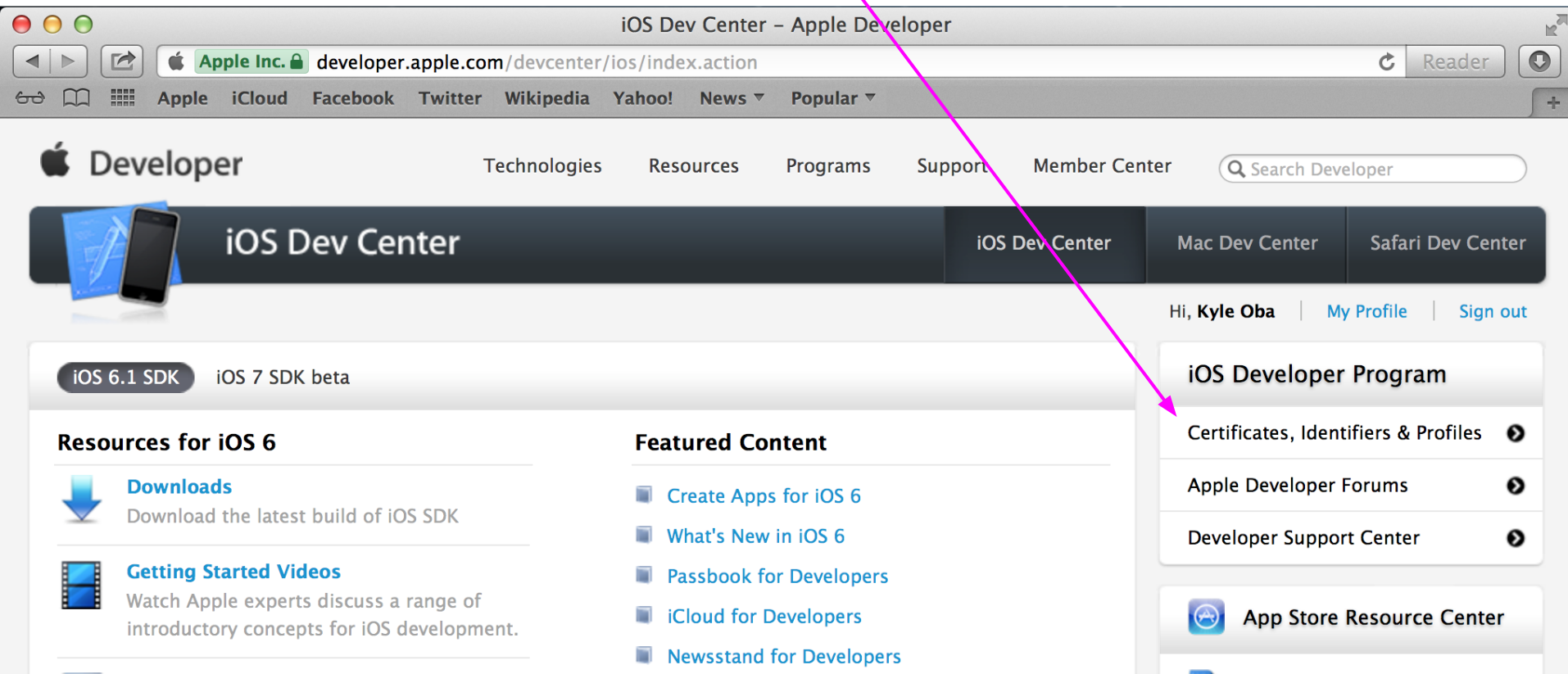
You are an iOS developer, and click on the **iOS Dev Center** link.

It's under the **iOS 7** section, even though we're not using iOS 7 yet.



# You're in. The iOS Dev Center.

Find and click the **Certificates, Identifiers & Profiles** link.



The screenshot shows the iOS Dev Center website in a web browser. The browser's address bar displays the URL `developer.apple.com/devcenter/ios/index.action`. The website's navigation bar includes links for Technologies, Resources, Programs, Support, and Member Center, along with a search bar. Below the navigation bar, the main header features the 'iOS Dev Center' title and a sidebar with links to 'iOS Dev Center', 'Mac Dev Center', and 'Safari Dev Center'. The main content area is divided into two columns: 'Resources for iOS 6' and 'Featured Content'. The 'Resources for iOS 6' column includes links for 'Downloads' and 'Getting Started Videos'. The 'Featured Content' column lists various resources like 'Create Apps for iOS 6', 'What's New in iOS 6', 'Passbook for Developers', 'iCloud for Developers', and 'Newsstand for Developers'. On the right side, a sidebar titled 'iOS Developer Program' contains a list of links, including 'Certificates, Identifiers & Profiles', 'Apple Developer Forums', and 'Developer Support Center'. A pink arrow points from the text 'Find and click the Certificates, Identifiers & Profiles link.' to the 'Certificates, Identifiers & Profiles' link in the right sidebar.

iOS Dev Center – Apple Developer

Apple Inc. developer.apple.com/devcenter/ios/index.action

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Hi, Kyle Oba | My Profile | Sign out

iOS Developer Program

- Certificates, Identifiers & Profiles
- Apple Developer Forums
- Developer Support Center

App Store Resource Center

Resources for iOS 6

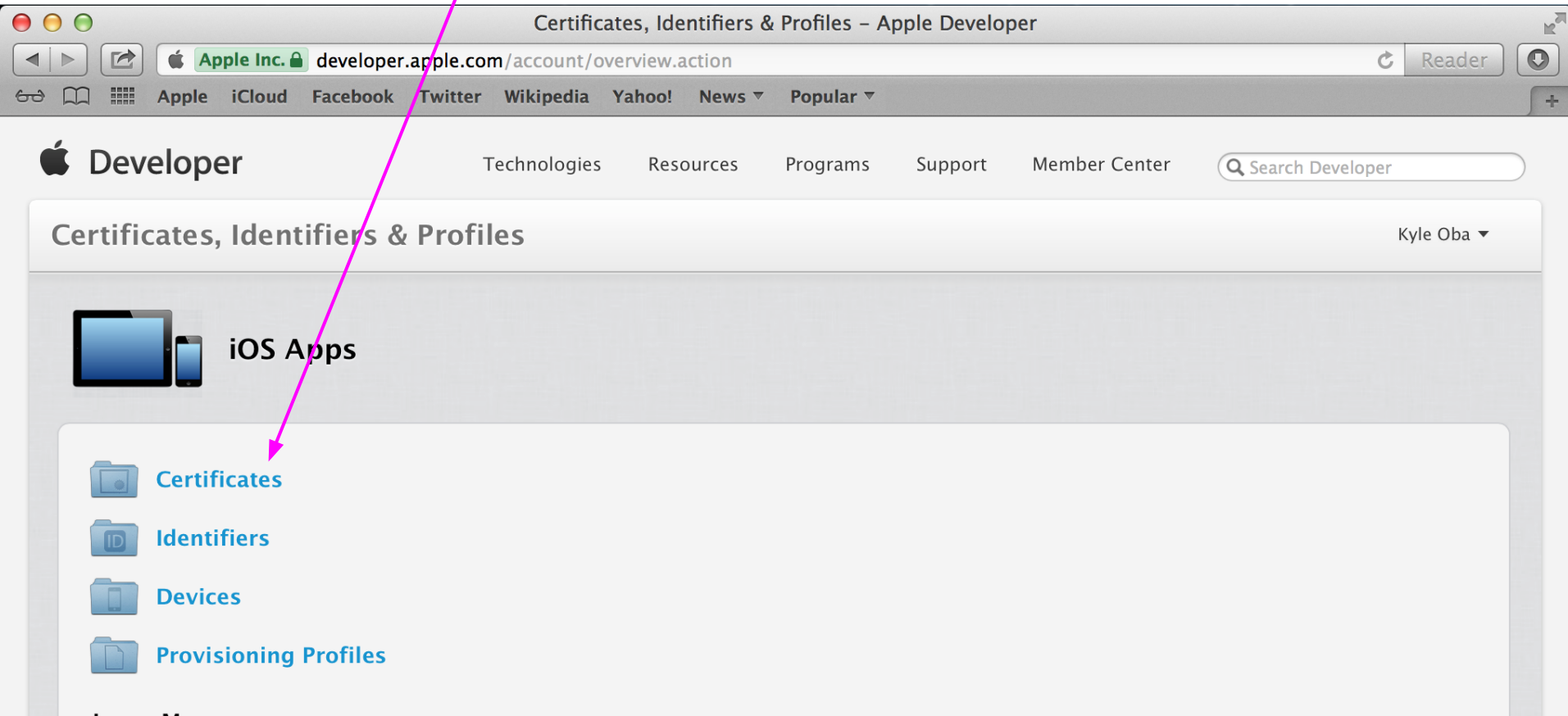
- Downloads  
Download the latest build of iOS SDK
- Getting Started Videos  
Watch Apple experts discuss a range of introductory concepts for iOS development.

Featured Content

- Create Apps for iOS 6
- What's New in iOS 6
- Passbook for Developers
- iCloud for Developers
- Newsstand for Developers

# Again... Certificates...

Find and click on the **Certificates** link.



# Add a new certificate

Click on the + button to create a new certificate.



# I already created mine... so...

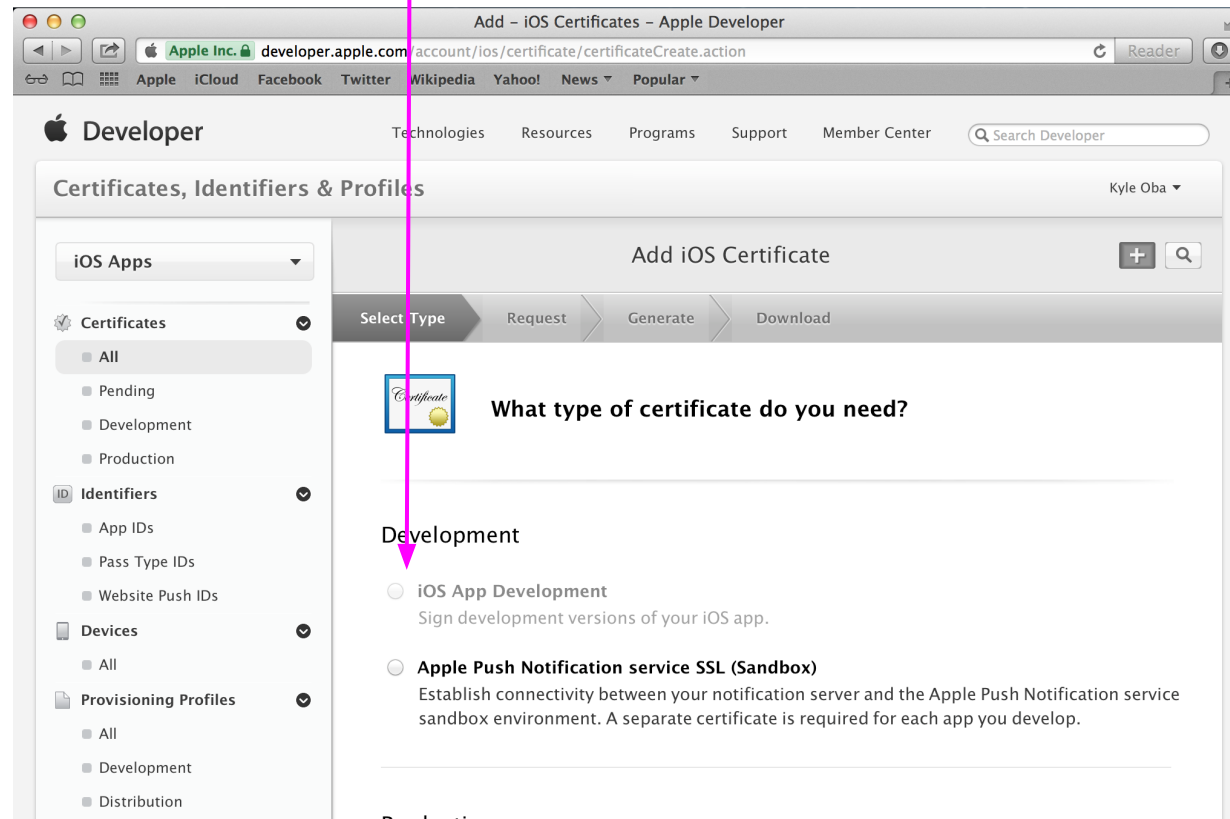
You'll have to wing this part without screenshots. Don't worry, I'll help you get through it.

Under **Development**, you need to select the **iOS App Development** option.

Mine is grayed out, because I already created my certificate (and you can only have one). You should be able to select this option.

Then click the **Continue** button at the very bottom of the page (not pictured here).

It will ask you to upload the **CertificateSigningRequest.certSigningRequest** file that you saved on your Desktop.



# Back to Xcode's Organizer

You have been set up as a developer in the Apple Developer Portal, and your certificate is now on file.

Don't proceed unless you have email confirmation from me that I've approved your certificate request.

If you're ready to start again, open Xcode.

Open the Organizer window again: **Window > Organizer**

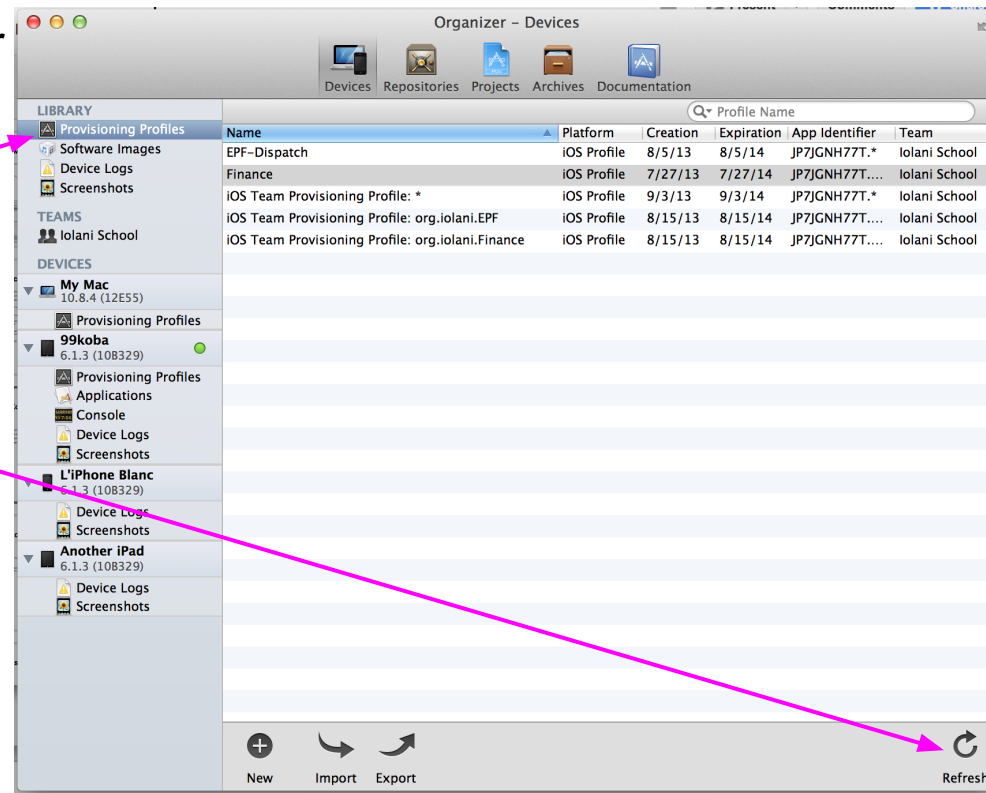
Make sure you're on the **Devices** tab.

Under **LIBRARY** in the left-hand pane, select the **Provisioning Profiles** item.

Hit the **Refresh** button.

This will ask Xcode to retrieve all the new Provisioning Profiles from the Apple Developer Portal. I manage these profiles, which link our UDIDs to our certificates.

In short, with the proper Provisioning Profile loaded in Xcode, you will be allowed to deploy your apps to your device.

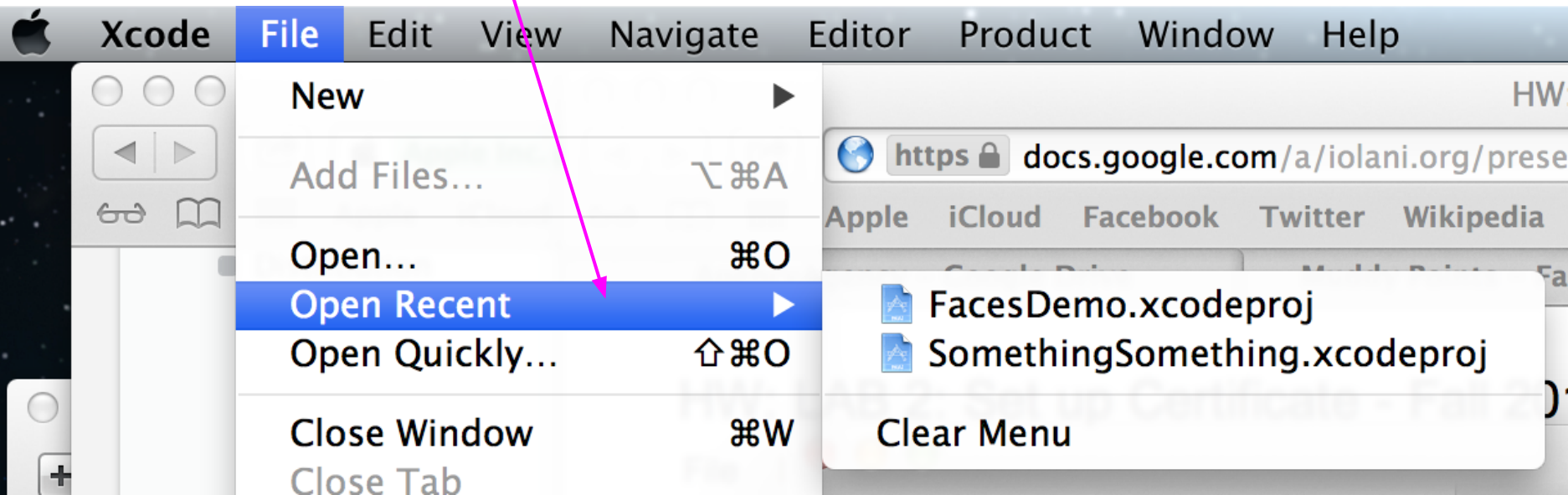


# Open your project again

Make sure your iPad is still connected.

Open up your project (the one you created last night). If it's not already open, or you can't figure out how to open it, try looking at the **File > Open Recent** menu item.

If it was already open, you're fine.



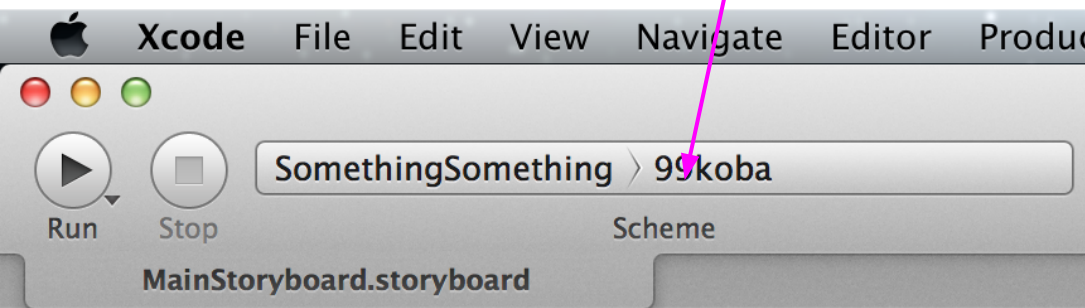


# Select your iPad

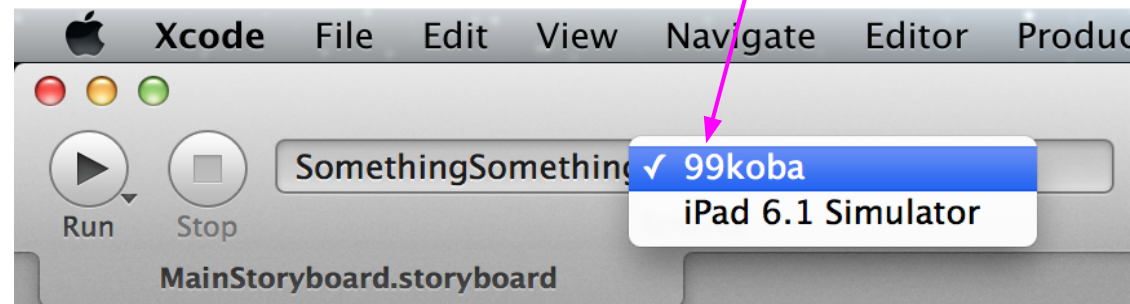
In the top **Scheme** pull-down menu (on the right-side of it).

Select your iPad. Mine has a wonky name, that I never created. I think that IT services created that name: **99koba**.

First this...



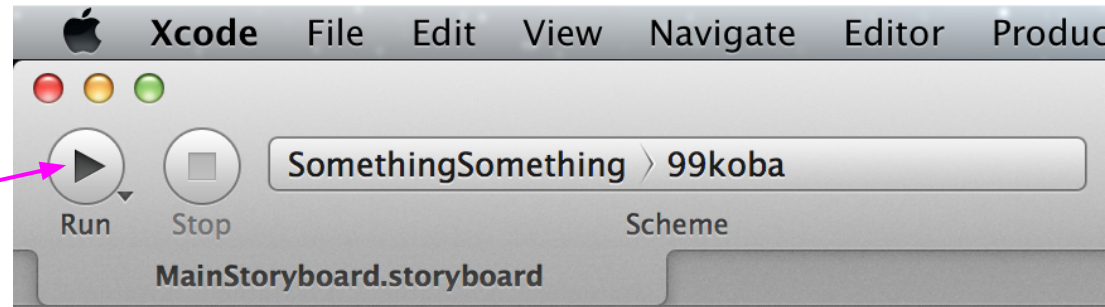
Then this...



# Build!

Click the **Run** button to start your build.

It should automatically start running on your iPad.



# A lot can go wrong.

That was a lot of ground to cover. And, I only provided you with the steps to take when **everything** goes as planned.

We all know that's seldom the case.

So, if you get stuck somewhere, don't despair. There's help online.

<https://developer.apple.com/support/technical/certificates/>

<https://developer.apple.com/library/ios/documentation/IDEs/Conceptual/AppDistributionGuide/Introduction/Introduction.html>

<https://developer.apple.com/support/technical/code-signing/>