

Open Source Deep Learning for iOS, OS

Tutorial – Using DeepLearningKit with iOS for iPhone and iPad

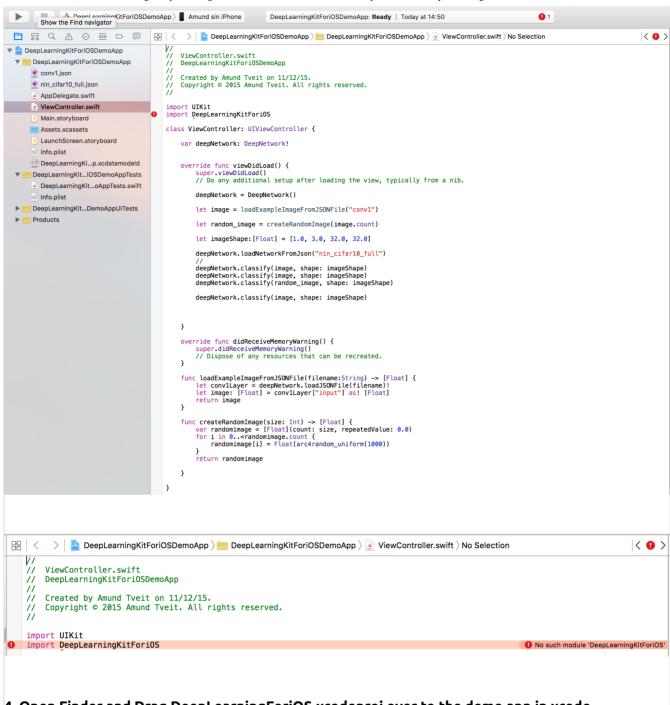
1. Clone DeepLearningKit: git clone https://github.com/DeepLearningKit/DeepLearningKit.git

```
[amund TESTINGDEEPLEARNINGKIT $ git clone https://github.com/DeepLearningKit/DeepLearningKit.git Cloning into 'DeepLearningKit'...
remote: Counting objects: 77, done.
remote: Compressing objects: 100% (55/55), done.
remote: Total 77 (delta 22), reused 76 (delta 21), pack-reused 0
Unpacking objects: 100% (77/77), done.
Checking connectivity... done.
```

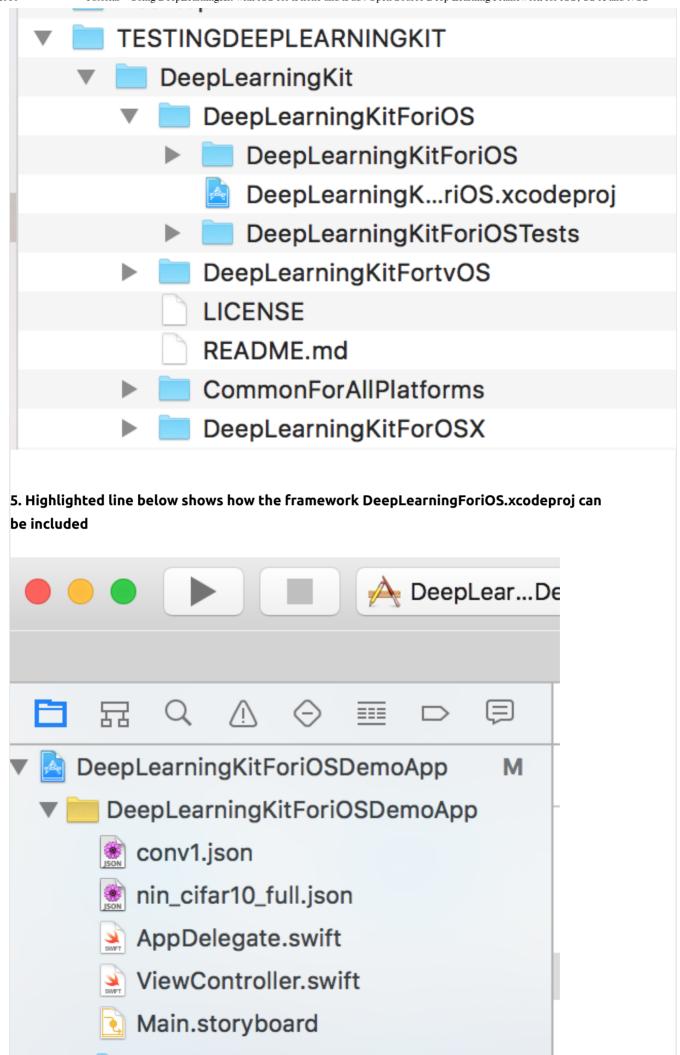
2. Open DeepLearningKitForiOSDemoApp.xcodeproj in xcode (e.g. from Finder)

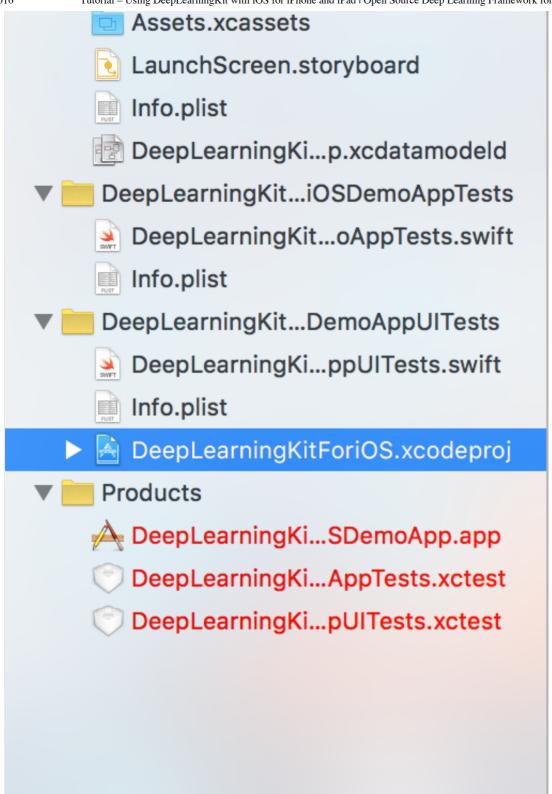
Name	Date Modified
▼ TESTINGDEEPLEARNINGKIT	Today 14:49
DeepLearningKitForiOSDemoApp	Today 14:49
DeepLearningKitForiOSDemoApp	Today 14:48
DeepLearningKitForiOSDemoApp.xcodeproj	Today 14:48
DeepLearningKitForiOSDemoAppTests	Today 14:48
DeepLearningKitForiOSDemoAppUITests	Today 14:48
LICENSE	Today 14:48
README.md	Today 14:48
DeepLearningKit	Today 14:47

3. Have a look at ViewController.swift – notice that import DeepLearningKitForiOS gives an error (in red)



4. Open Finder and Drag DeepLearningForiOS.xcodeproj over to the demo app in xcode

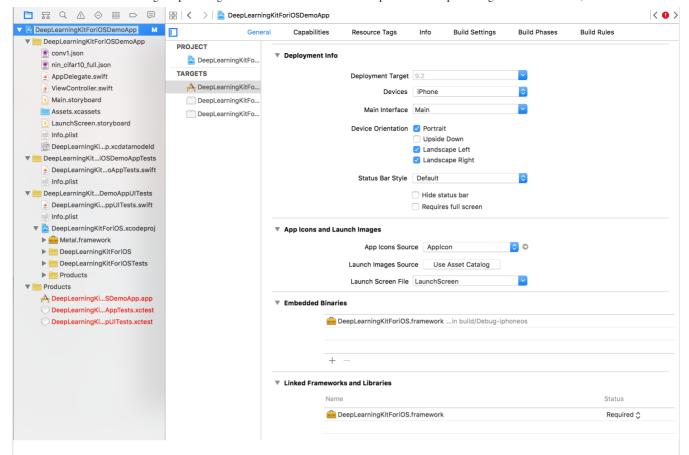




6. Click on app settings (highlighted line in left part of Xcode) and go the General tab on the right

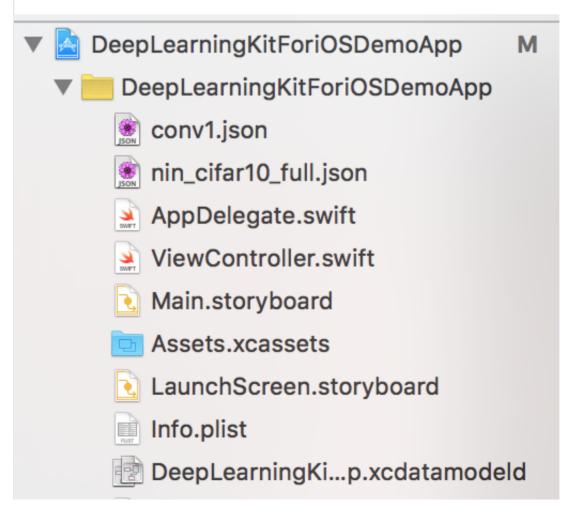


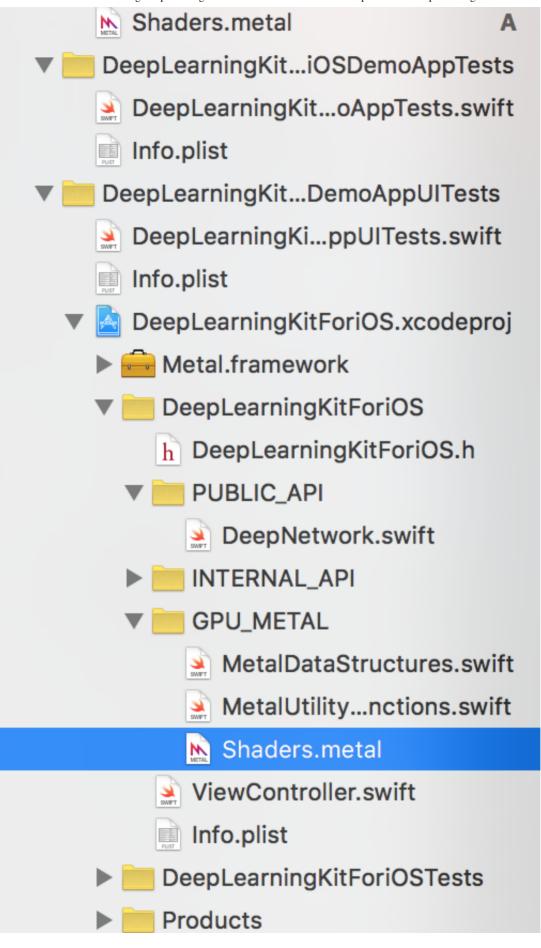
Tutorial - Using DeepLearningKit with iOS for iPhone and iPad | Open Source Deep Learning Framework for iOS, OS X and tvOS 7. Scroll down to embedded binaries in General tab and add DeepLearningKitforiOS.frameworkiOS Choose items to add: Q Search DeepLearningKitForiOSDemoApp DeepLearningKitForiOSDemoAppUITests DeepLearningKitForiOS.xcodeproj Products DeepLearningKitForiOS.frameworkiOS DeepLearningKitForiOSTests.xctestiOS Products DeepLearningKitForiOSDemoApp.appiOS DeepLearningKitForiOSDemoAppTests.xctestiOS DeepLearningKitForiOSDemoAppUITests.xctestiOS DeepLearningKitForiOS.xcodeproj Products DeepLearningKitForiOS.frameworkiOS DeepLearningKitForiOSTests.xctestiOS Add Add Other... Cancel 8. Result afterwards should look something like this – embedded binaries down to the right

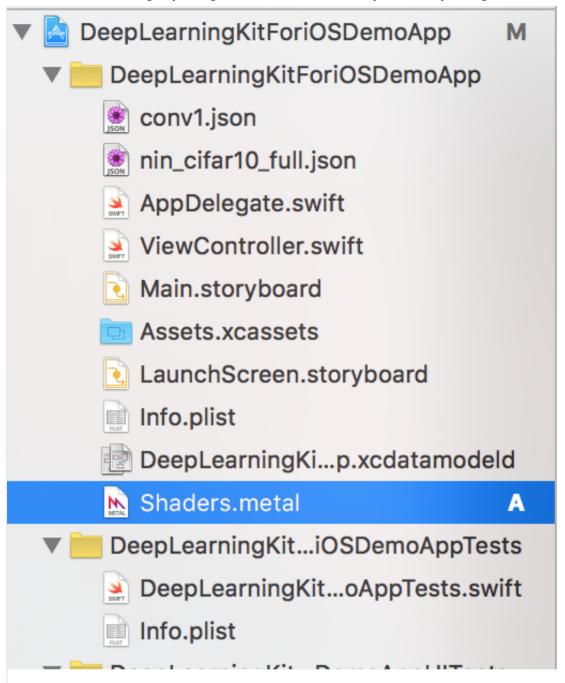


9. Drag the Shaders.metal file from DeepLearningKitForiOS into top project

(not quite sure why this needs to be done, but anyway)







10. Connect iPhone to your Mac (e.g. iPhone 6S), compile and run, should get something like this

Time to set up network: 0.0592629909515381
Time to run network: 0.0925900340080261
2015-12-28 15:27:58.826
DeepLearningKitForiOSDemoApp[11957:5480614] pool3
[17.9334, 14.5326, 27.2729, 55.7025, 42.3135, 41.0913, 32.9254, 22.6775, 13.4947, 17.5156]
maxValue = 55.7025, indexofMaxValue = 3