

Install NEURON on Mac

The example here is for El Capitan (10.11)
but anything >= OSX 10.7 is fine.

Install NEURON.

Install XQuartz if neurondemo does not work.

Install "XCode command line tools".

Install Python 2.7 distribution.

Or use the one that comes with your mac.

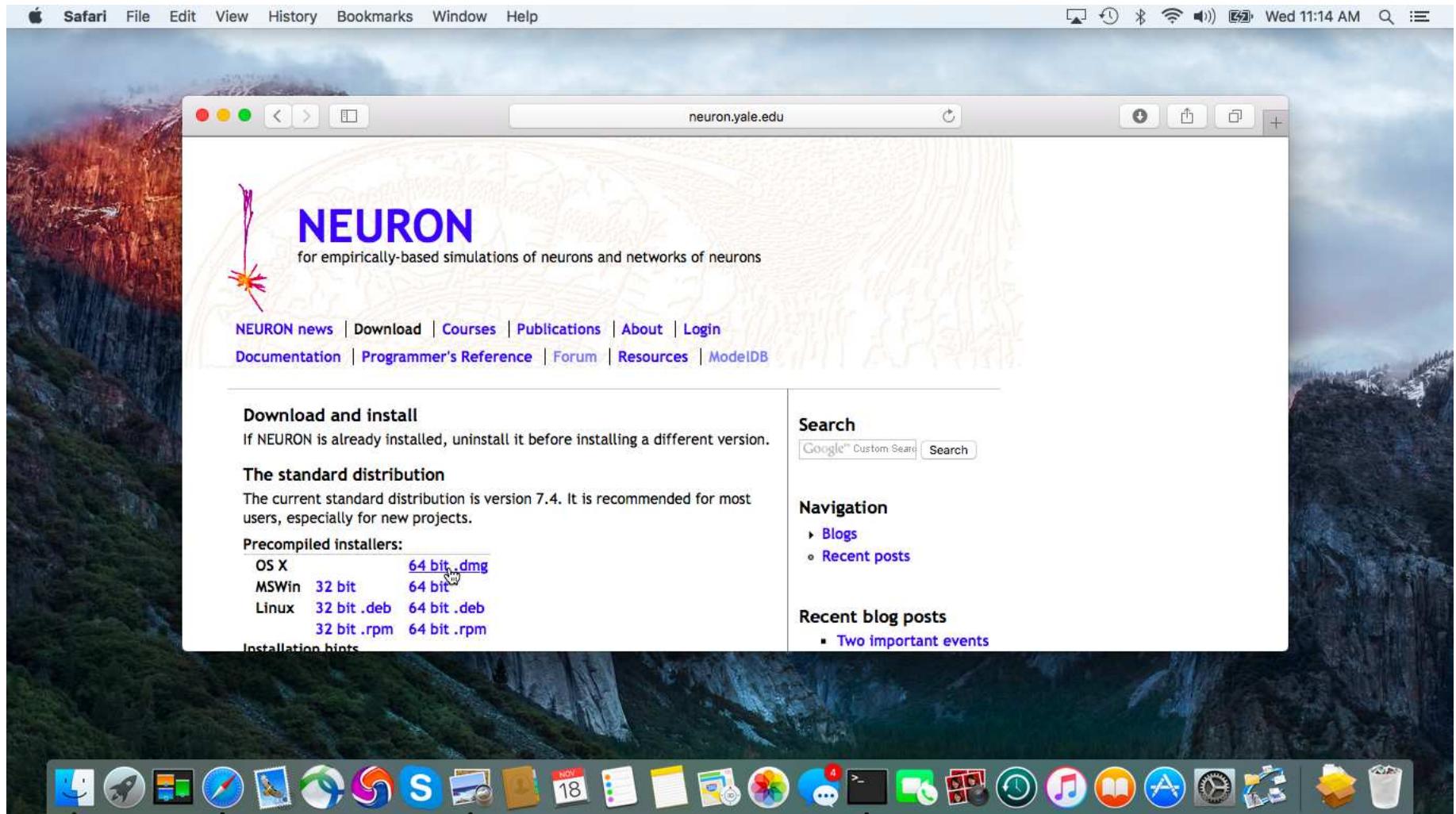
Test NEURON + Python.

Test MPI parallel from terminal.

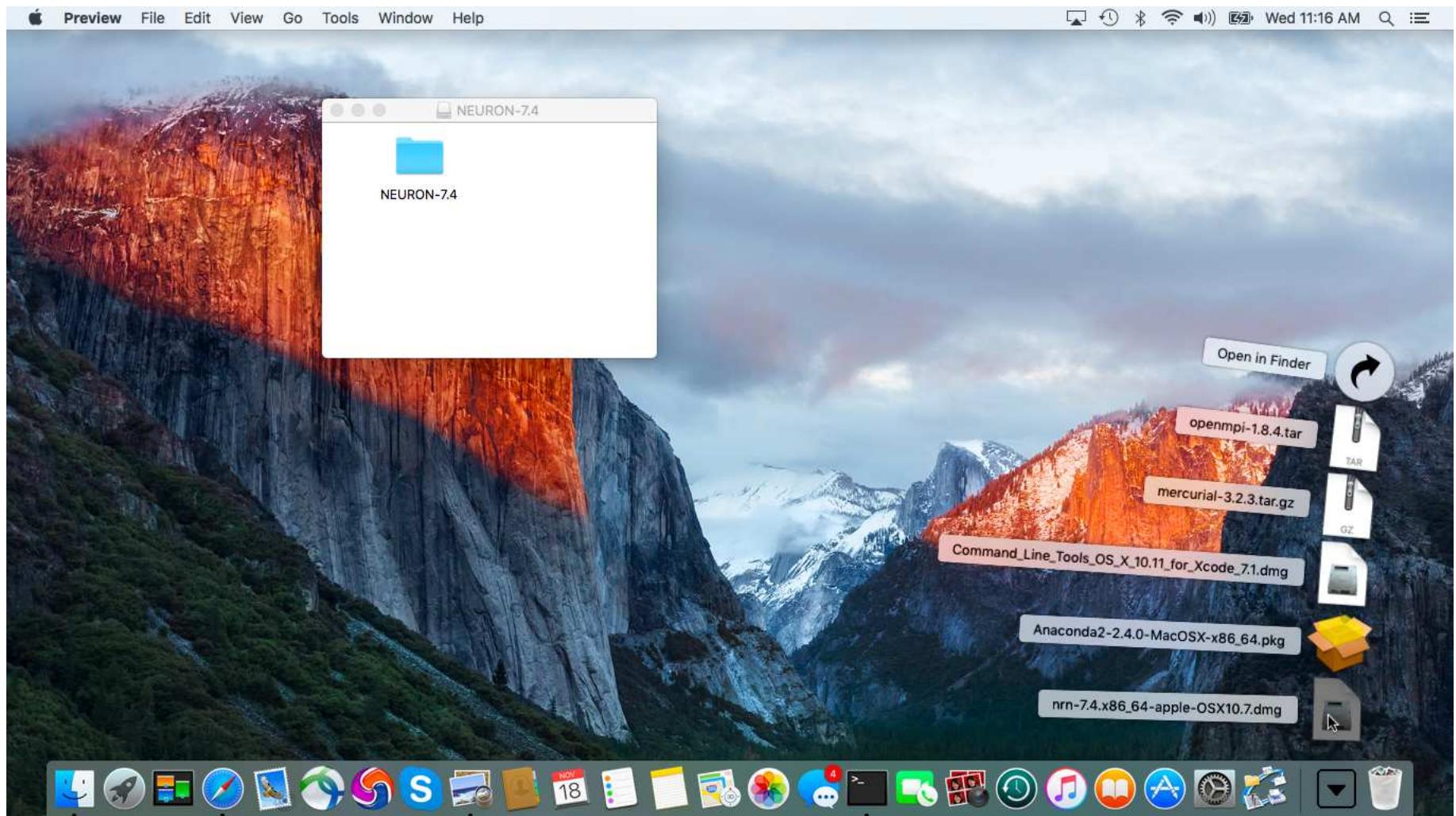
git comes with "command line tools"

Install NEURON on Mac

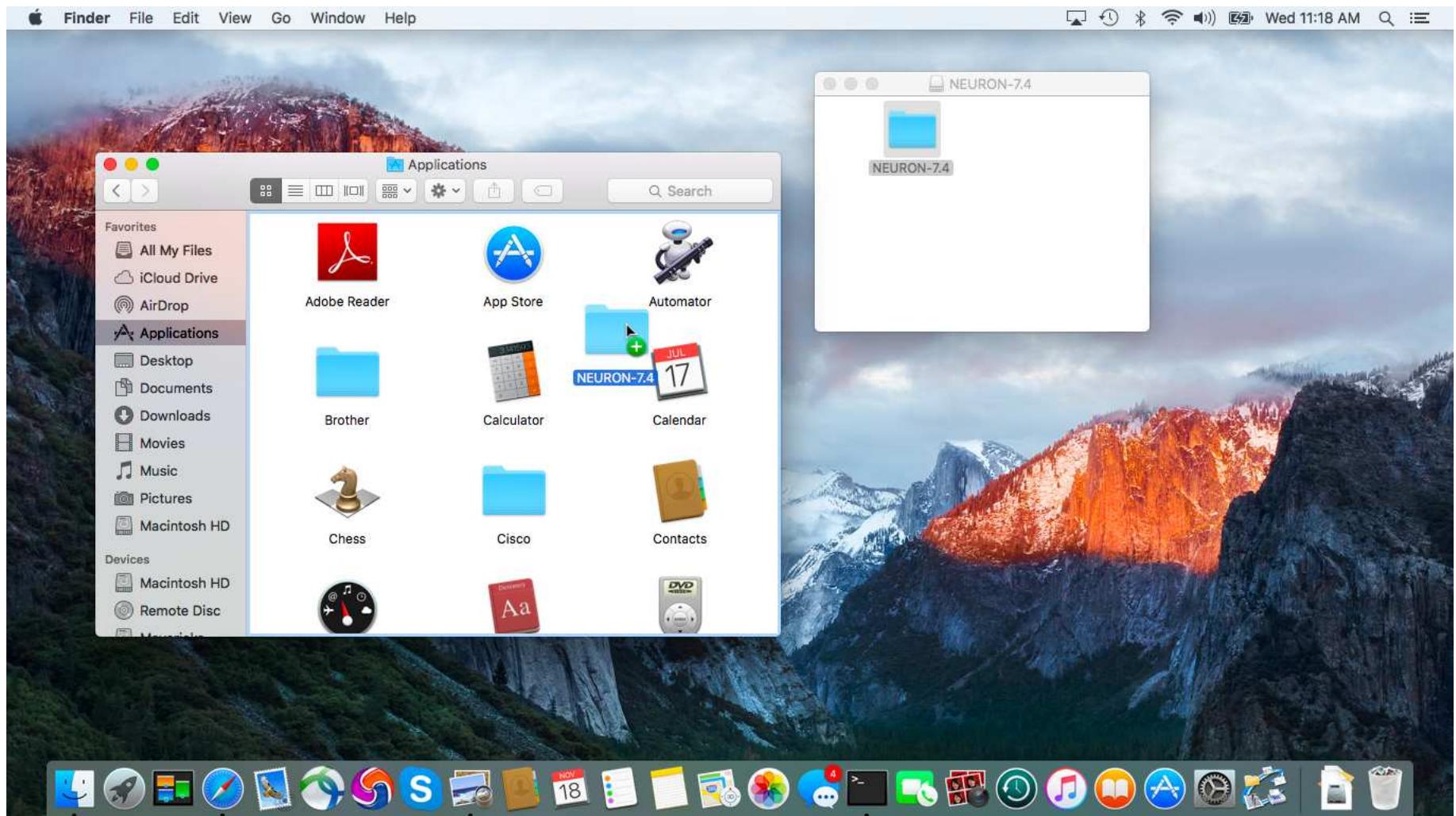
64bit dmg



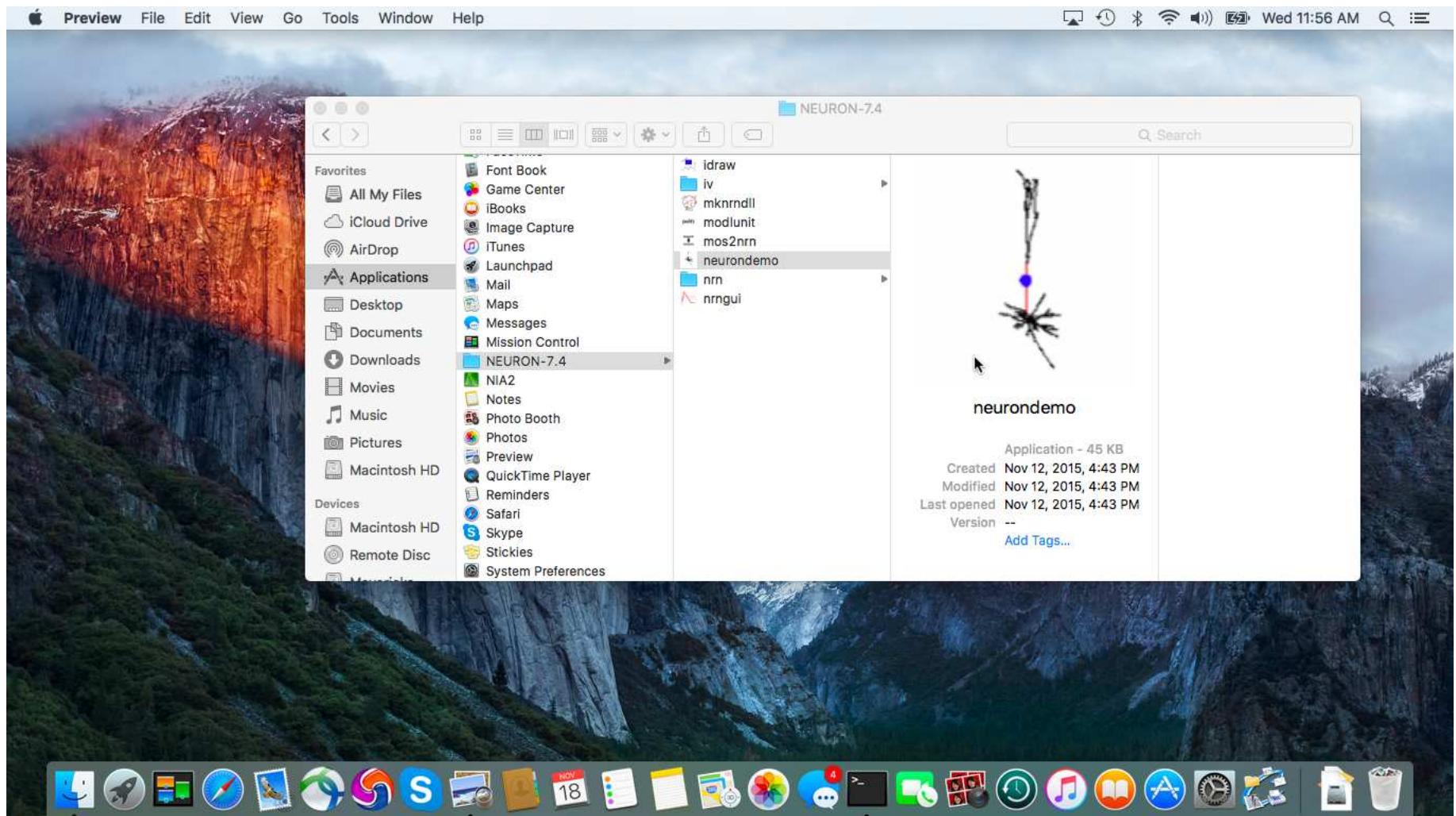
Open the downloaded dmg



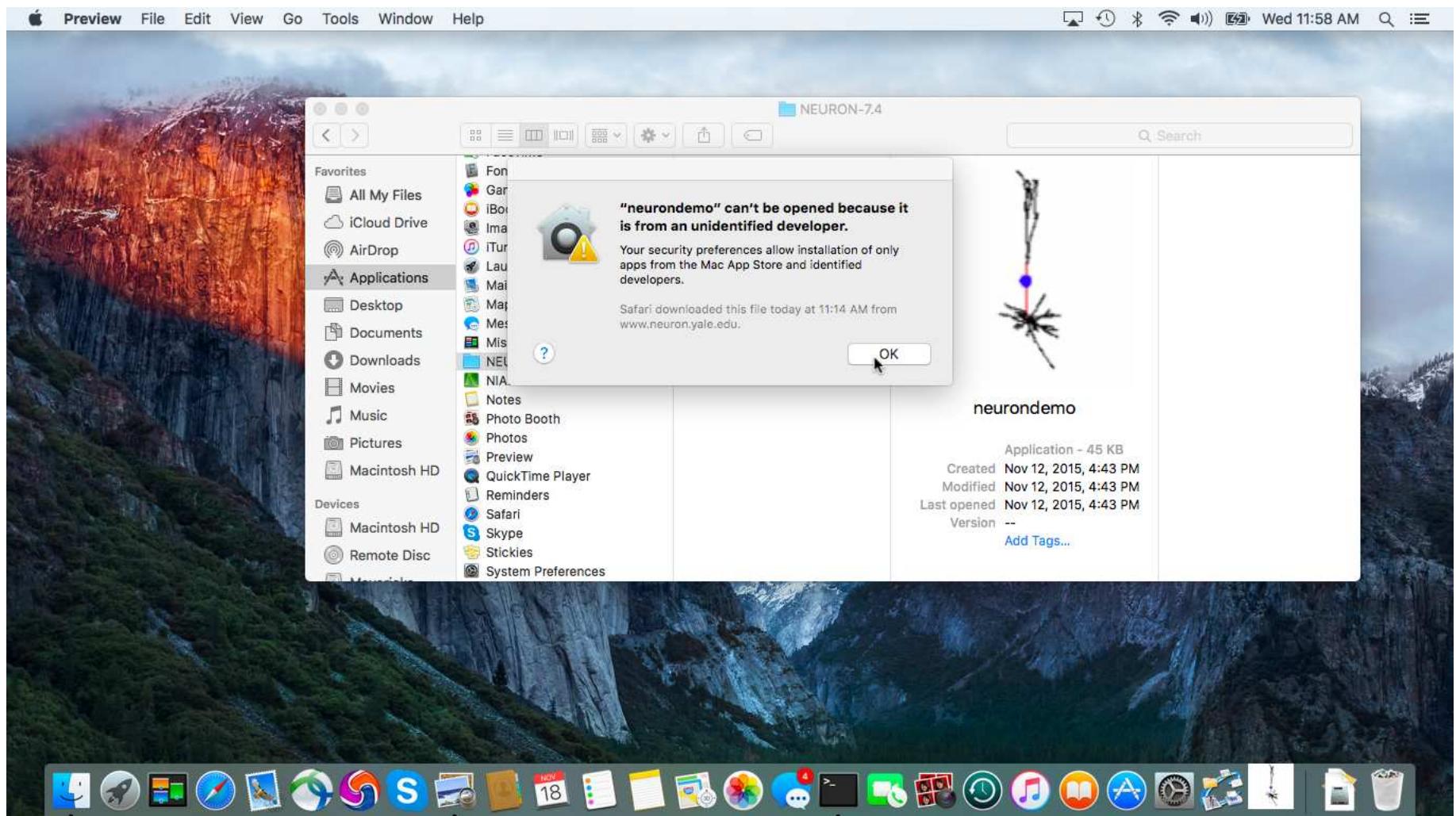
and drag NEURON-7.4 folder into /Applications



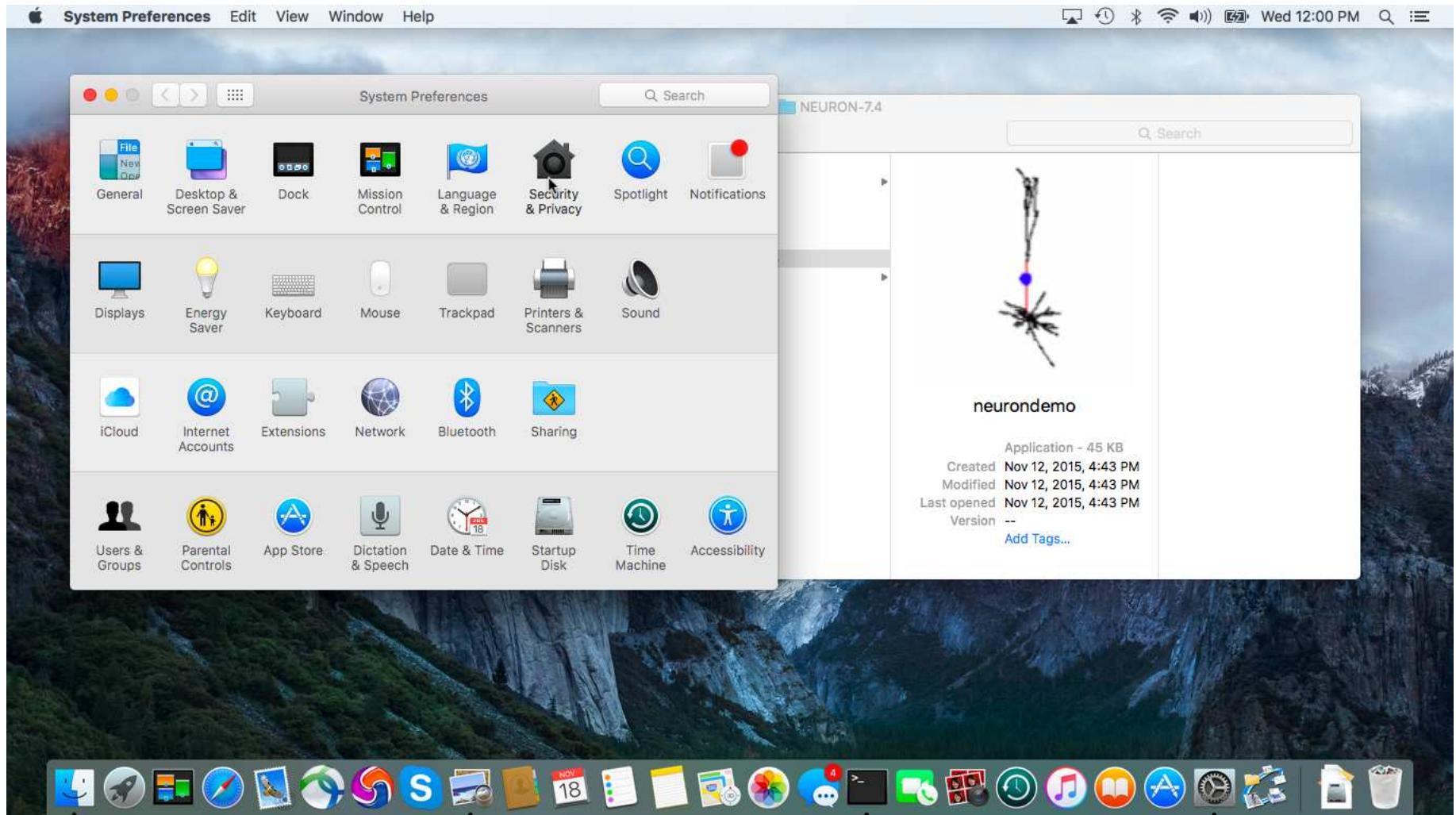
The first time you run NEURON ...



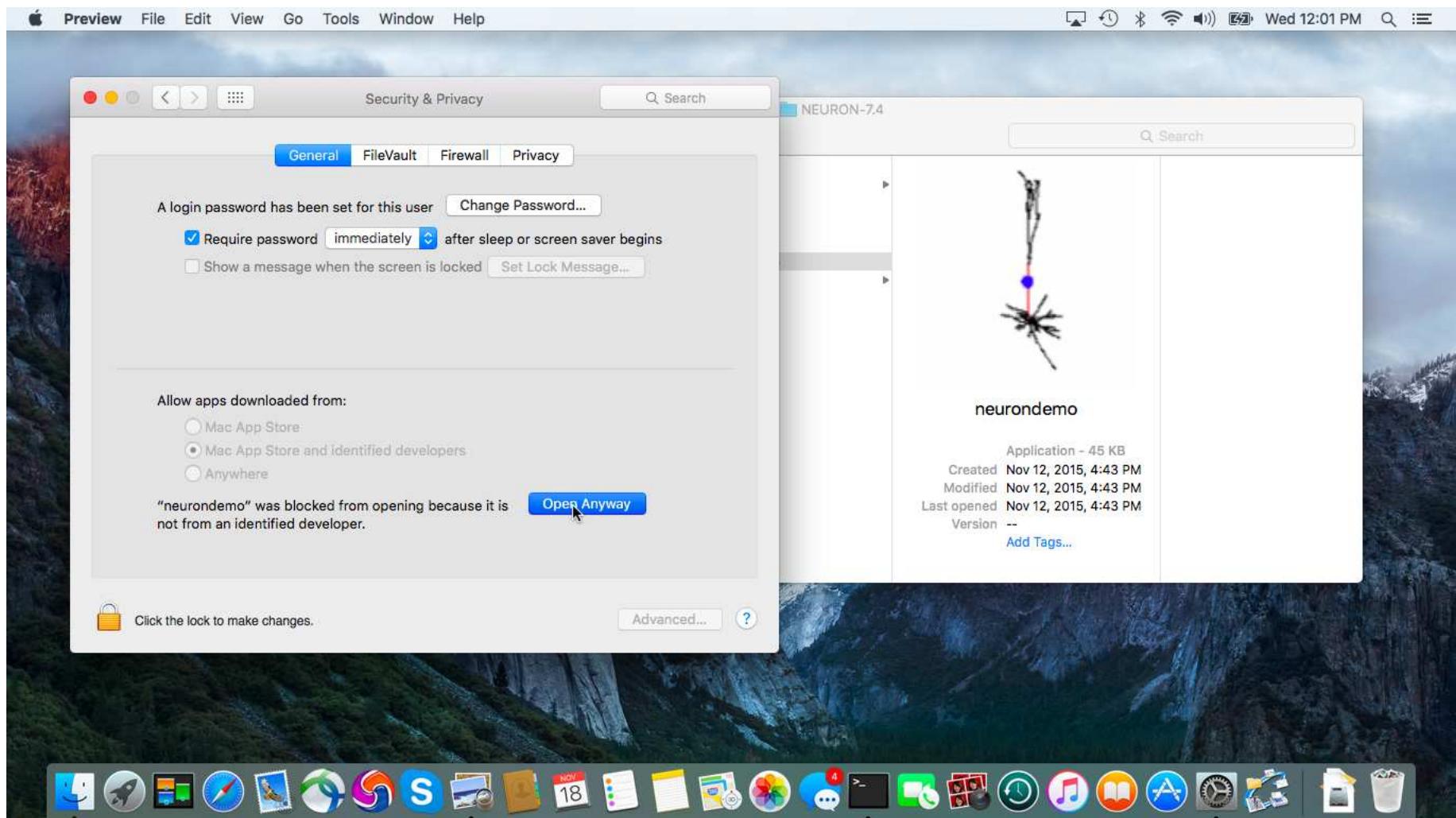
the OS thinks the provenance is questionable.



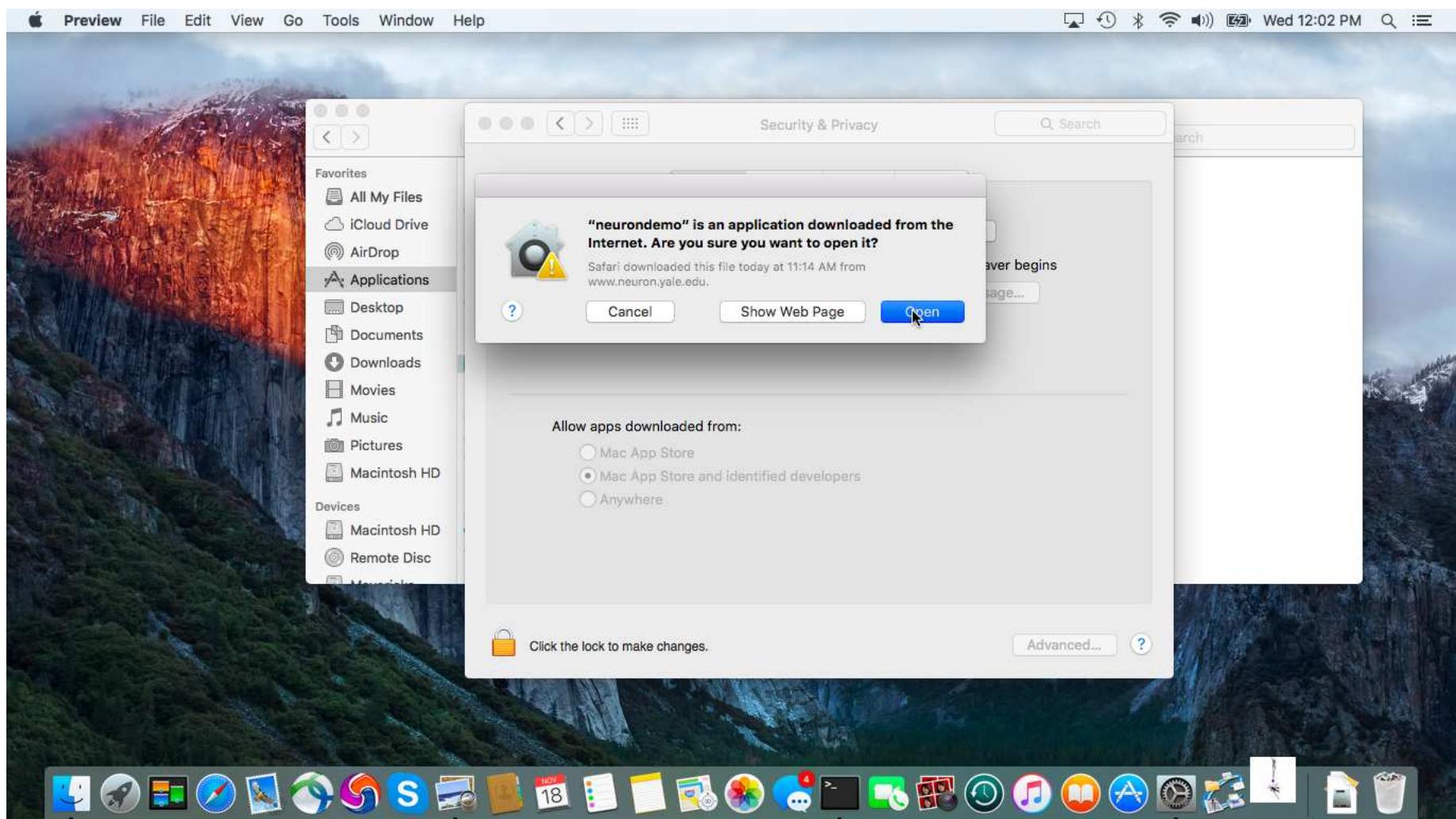
Open "System Preferences". Select "Security and Privacy"



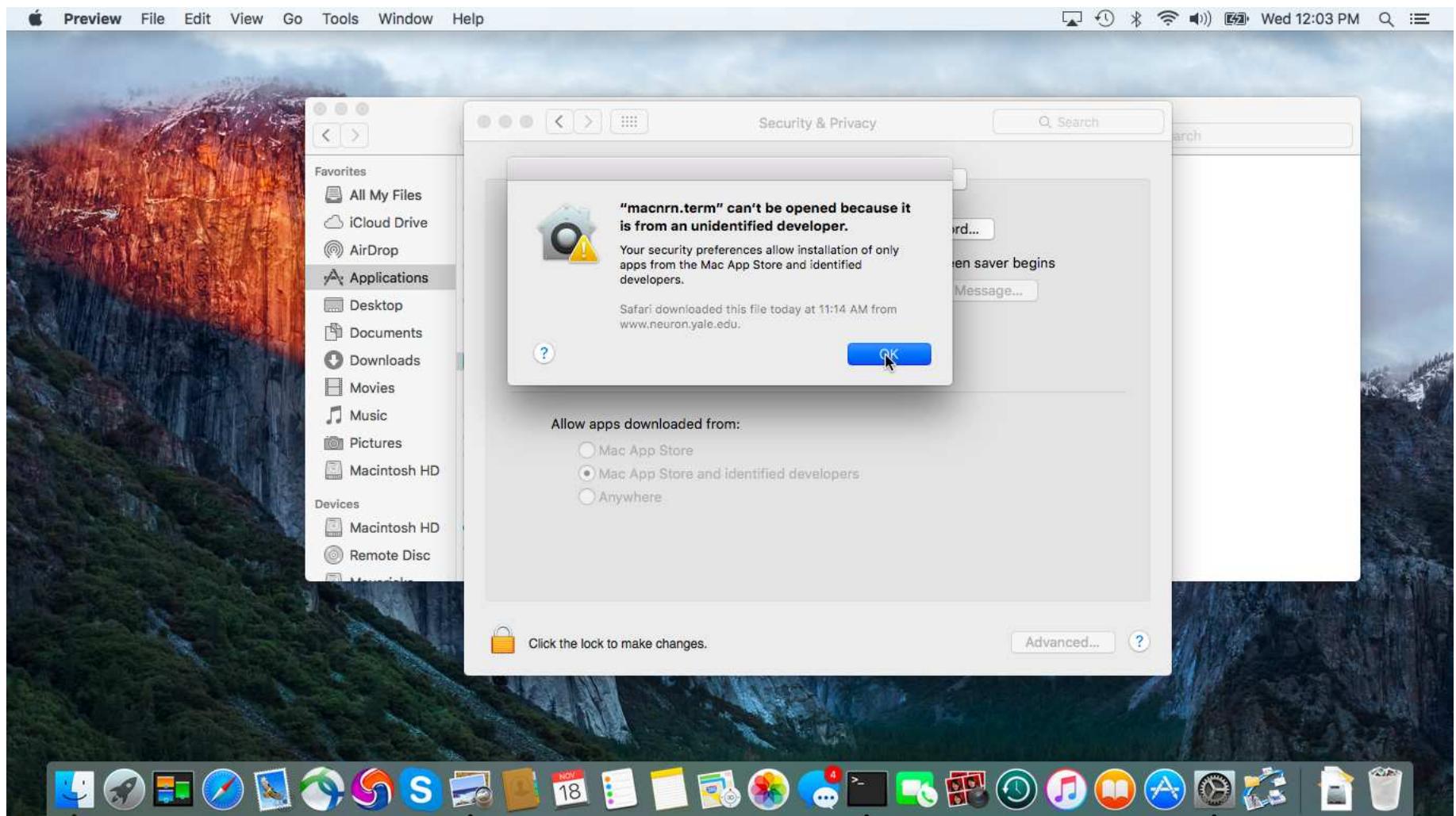
turn off the blocking



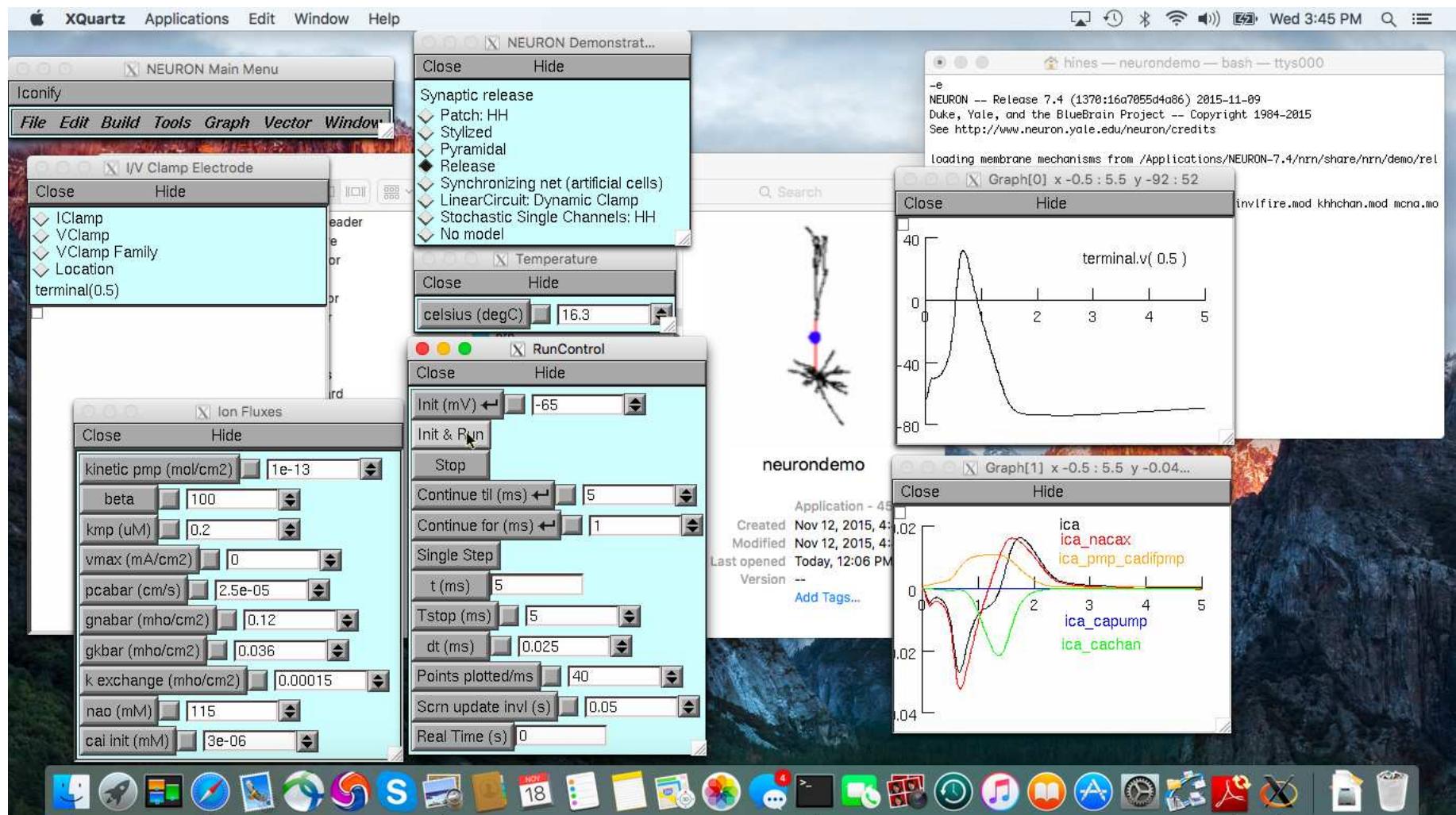
Now it will run



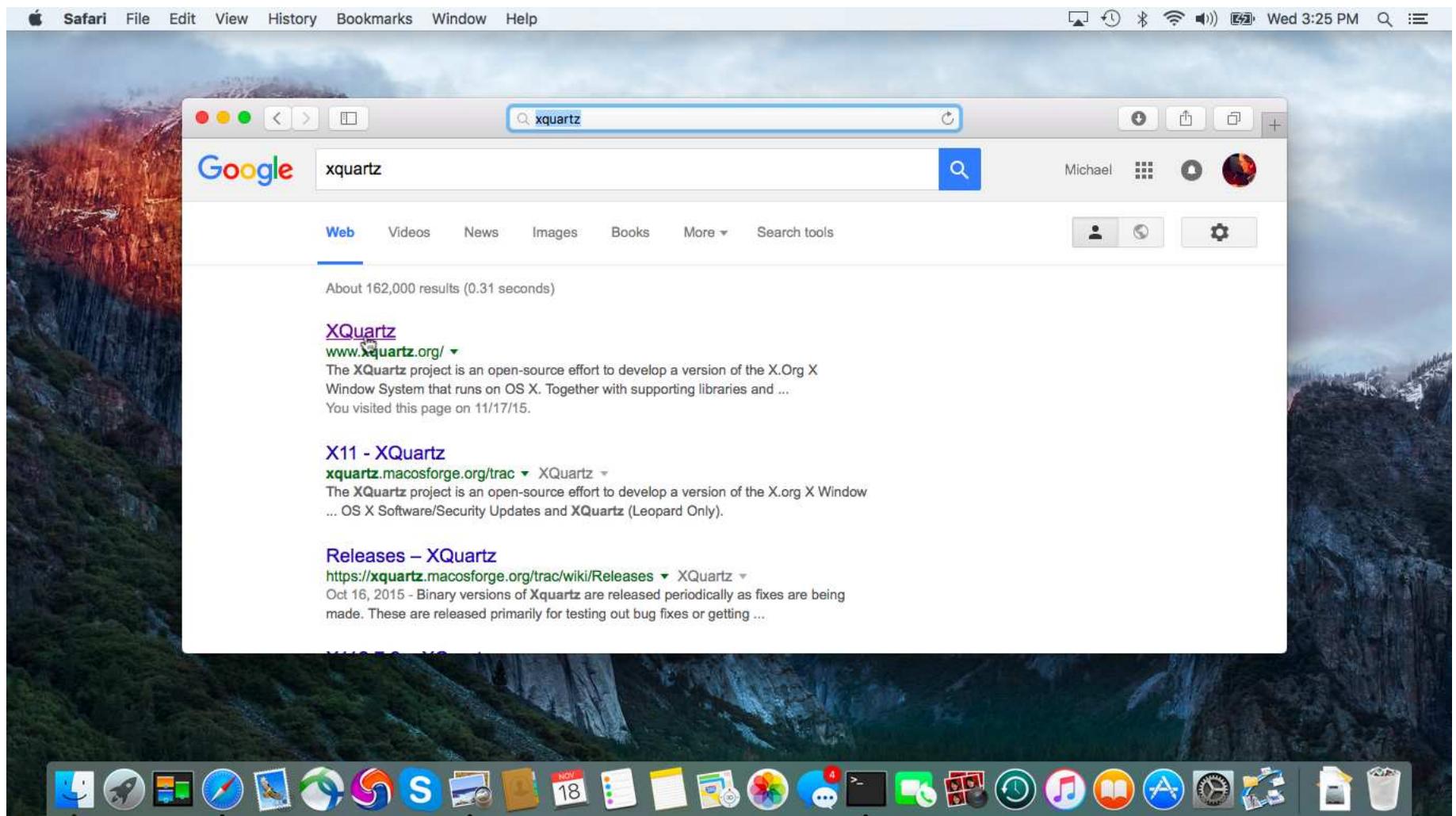
you'll have to Ok a few other programs as well.



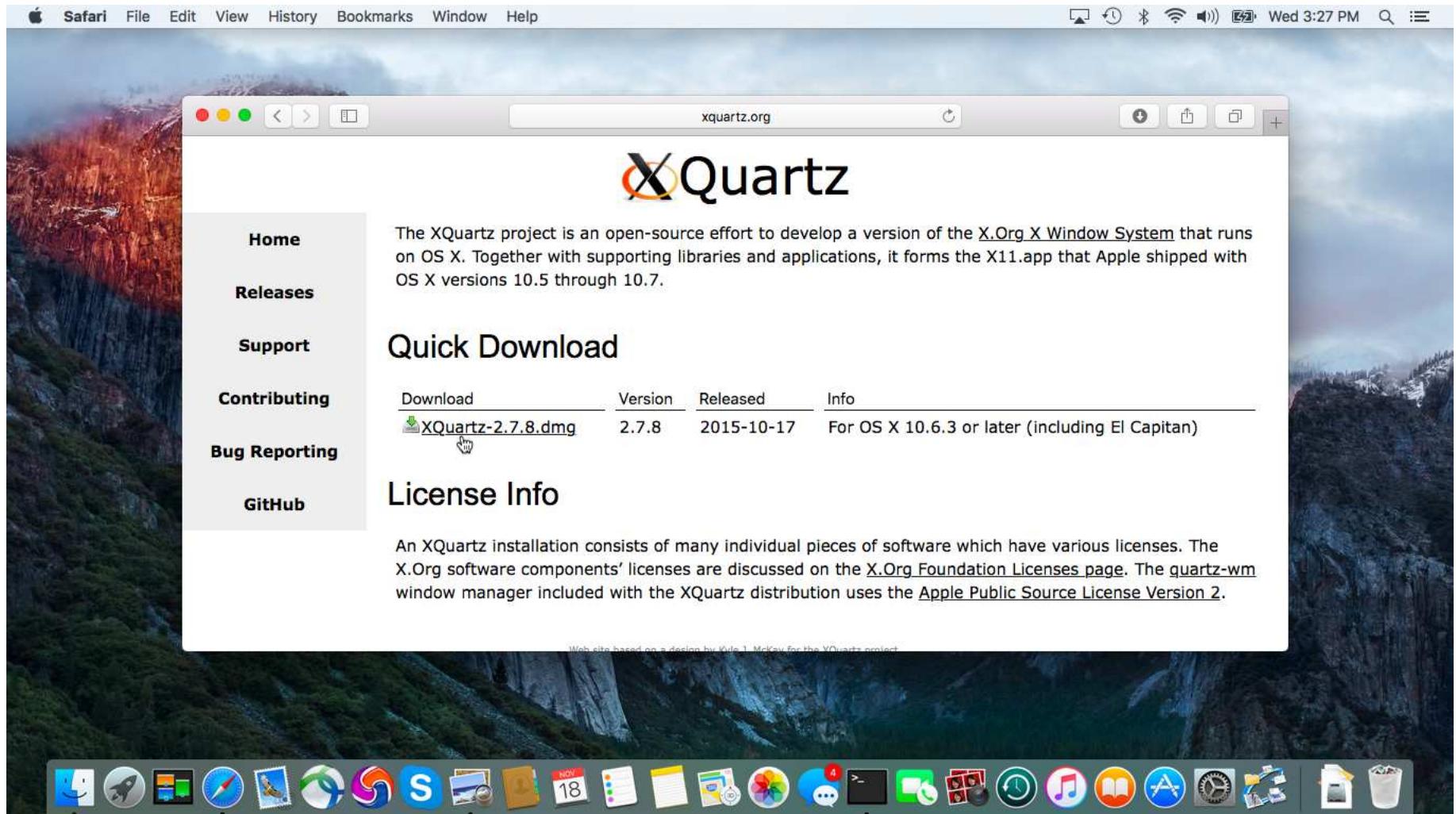
But success only if you have XQuartz installed.



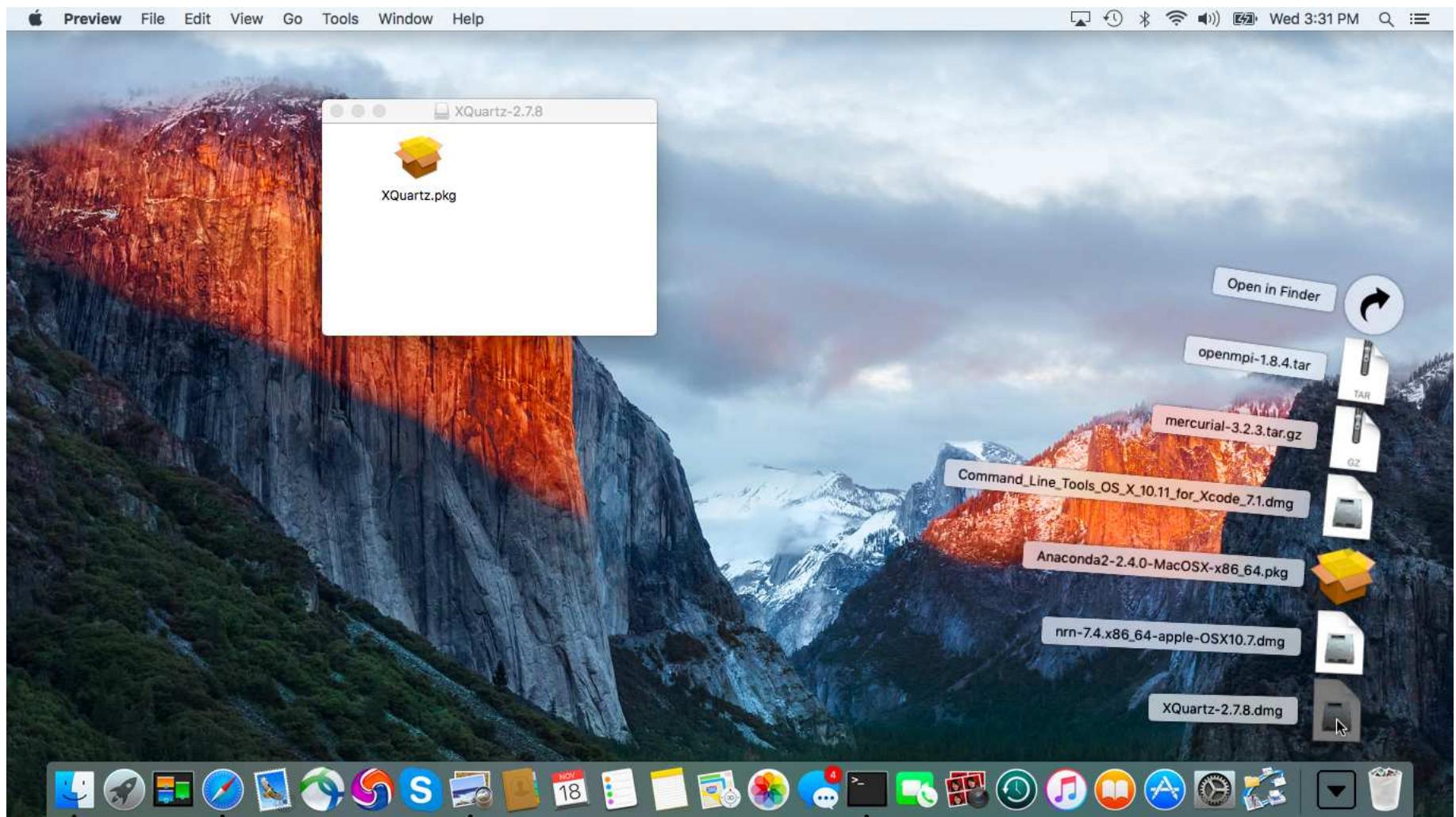
Ignore if neurondemo was successful



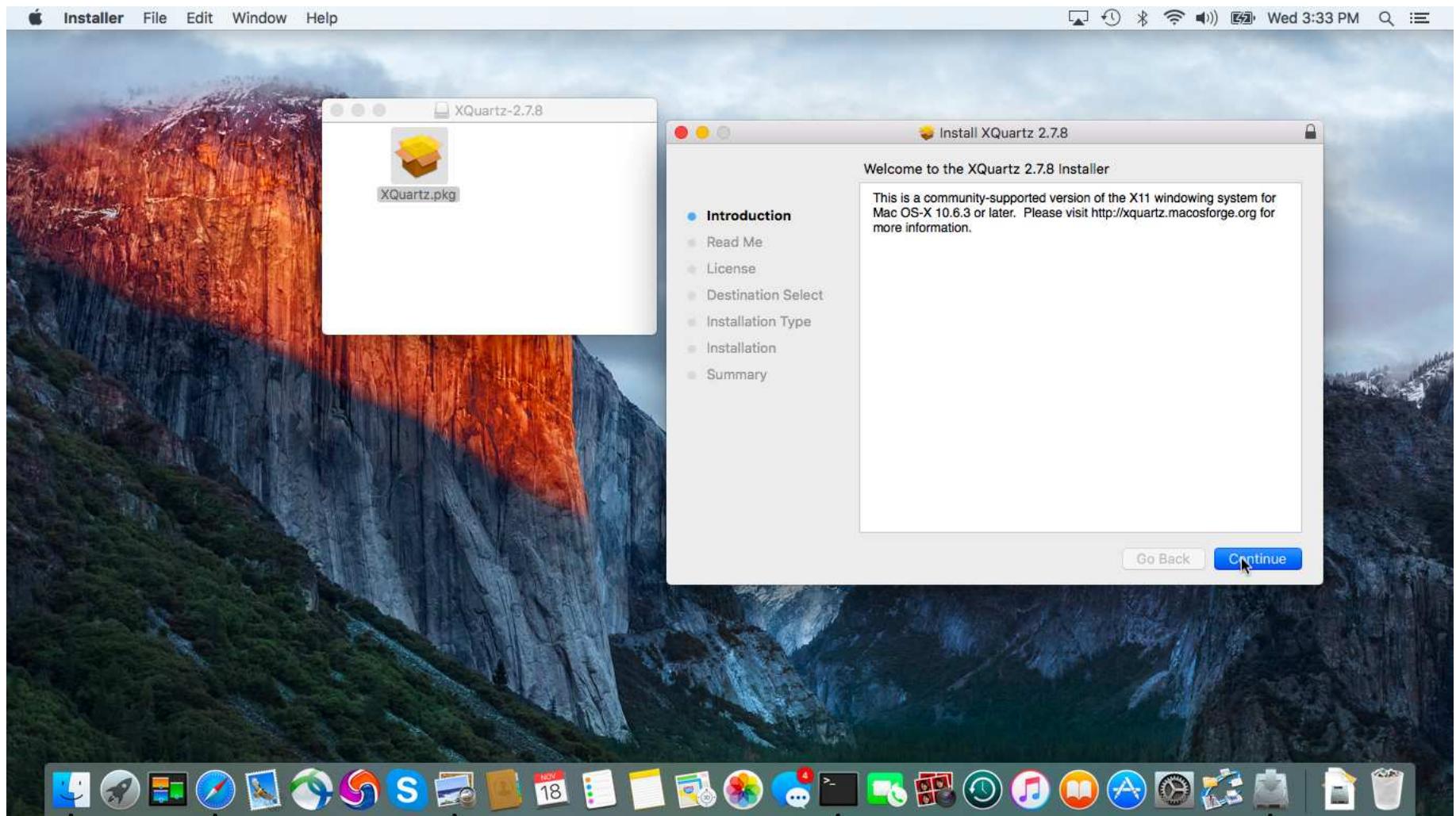
Otherwise download XQuartz



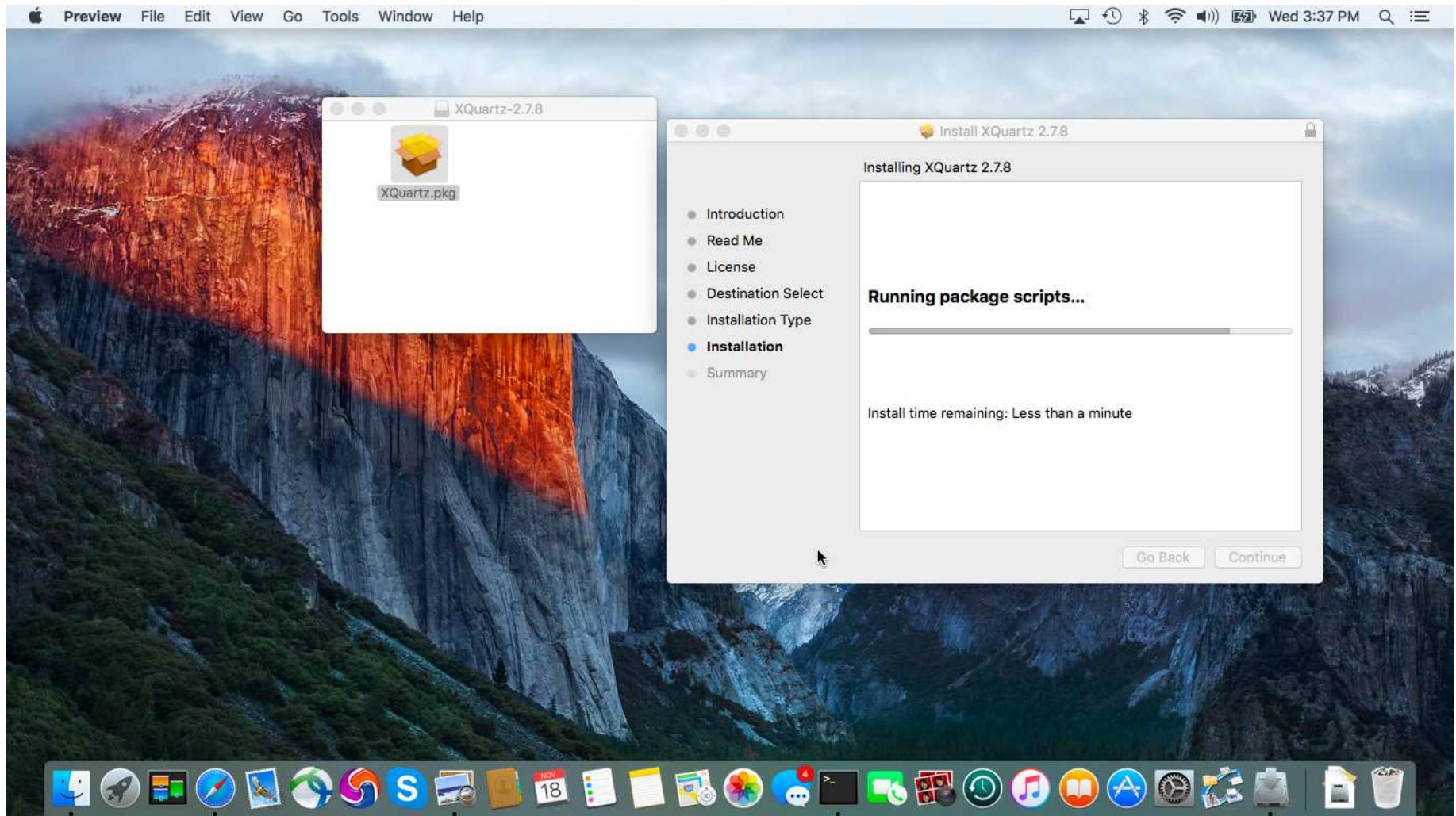
Open the dmg



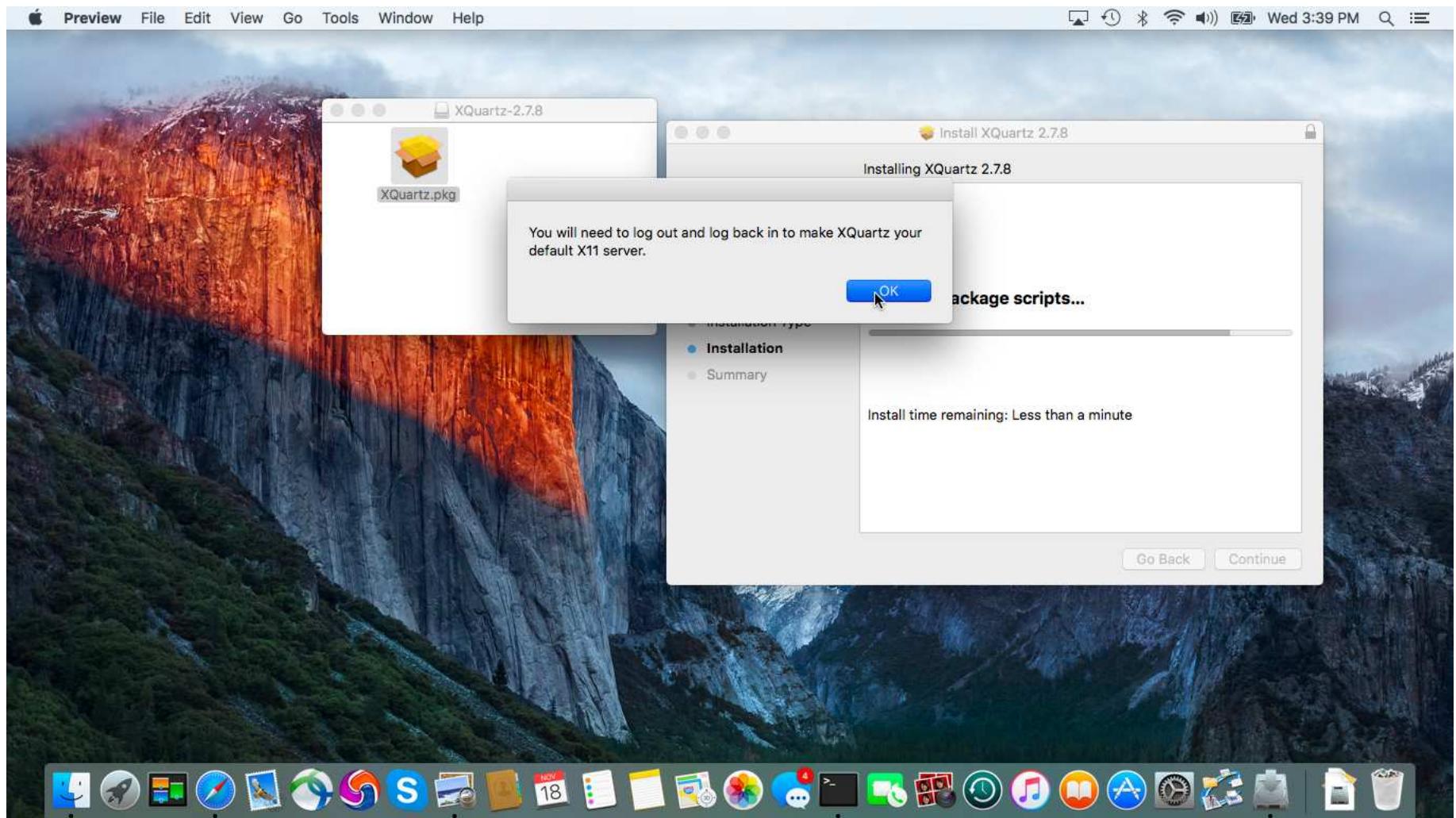
and launch the XQuartz installer.



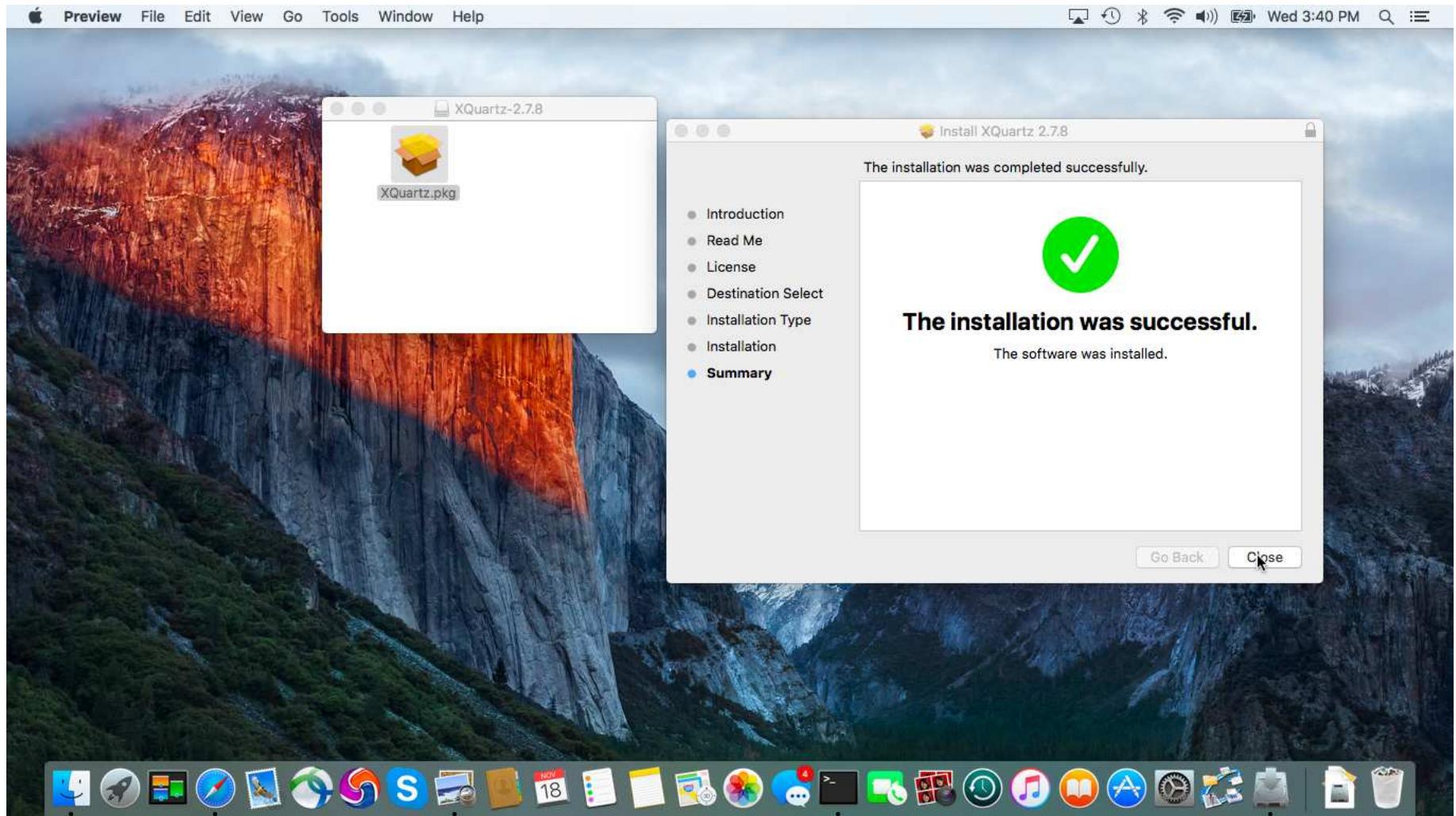
it can take a few minutes



Press OK, but something to remember ...



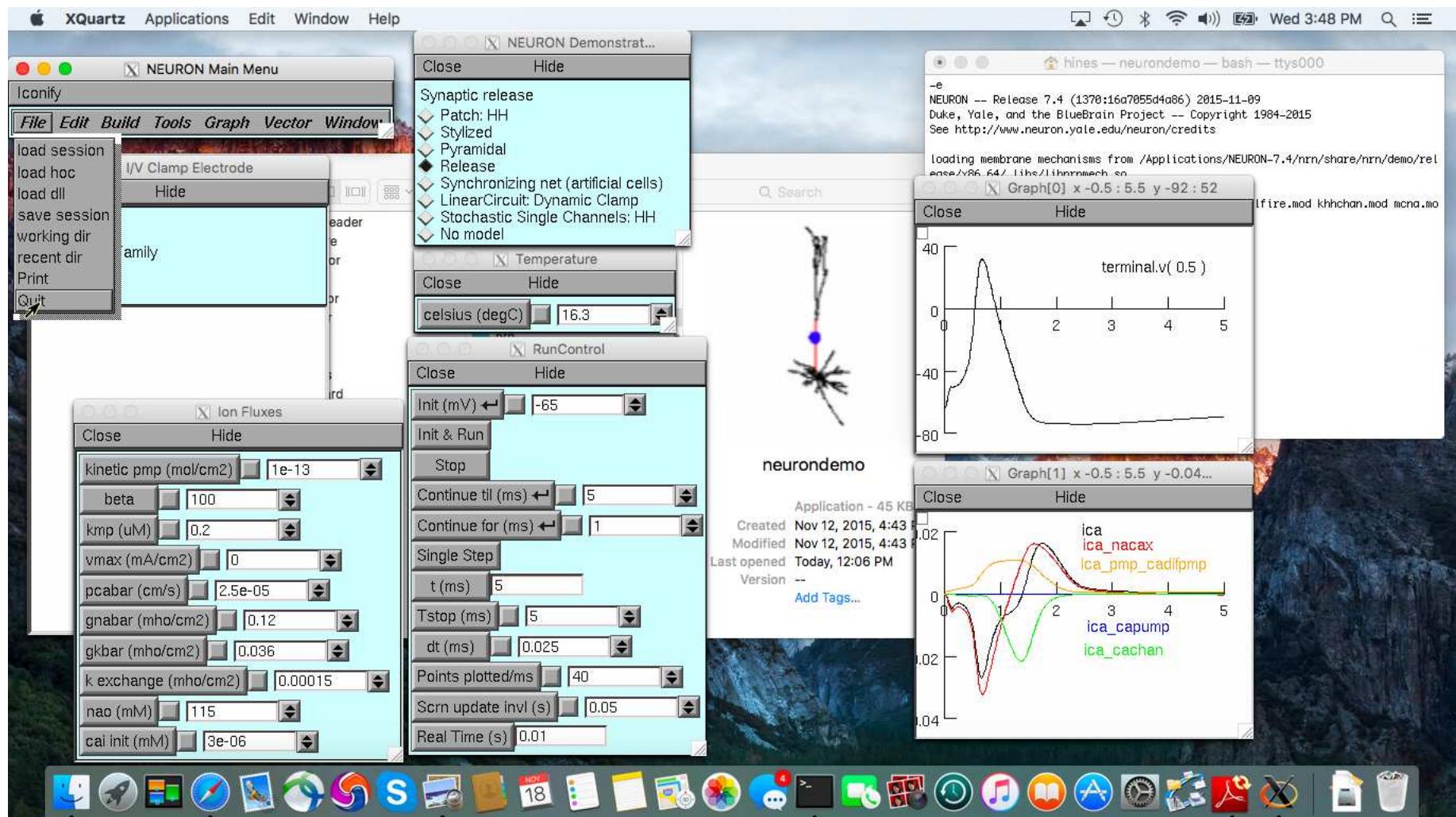
XQuartz is installed



but now log out and log back in.



Now neurondemo should be successful. exit via NEURONMainMenu/File/Quit



Command Line Tools depend on OSX version



El Capitan is 10.11



Free, but need to sign in to Apple

Safari File Edit View History Bookmarks Window Help

command line tools

Google command line tools

Web Videos News Images Shopping More Search tools

About 44,100,000 results (0.48 seconds)

Install Xcode **Command Line Tools**. Mac OS X Yosemite will alert you when you enter a **command** in the terminal that requires Xcode **Command Line Tools**. For example, you can enter gcc or make . Try it. Enter: \$ gcc. Oct 21, 2014

Xcode Command Line Tools · Yosemite · Install - RailsApps
railsapps.github.io/xcode-command-line-tools.html

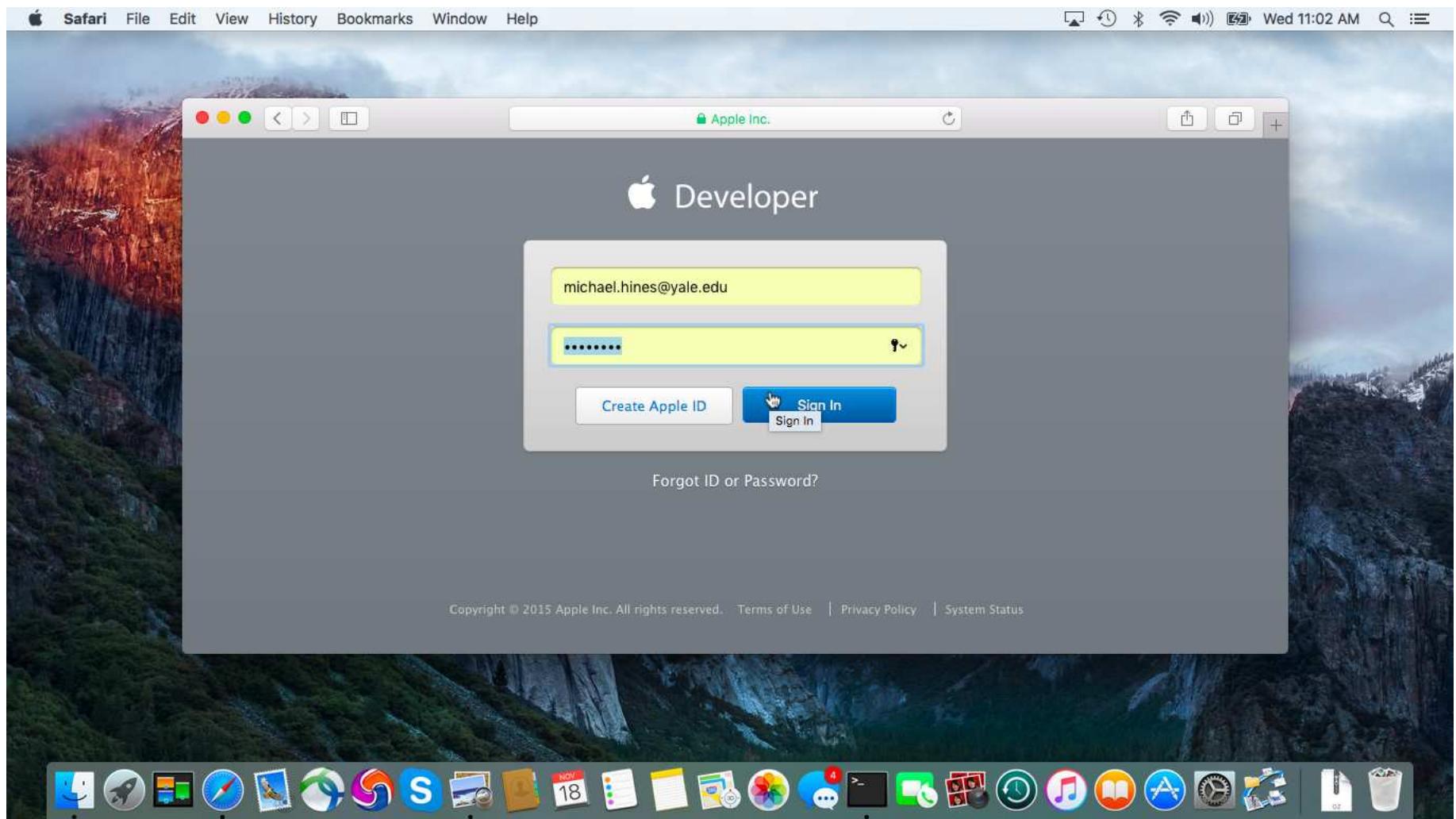
Feedback

Sign in with your Apple ID - Apple Developer
https://developer.apple.com/downloads/ Apple Developer Tools

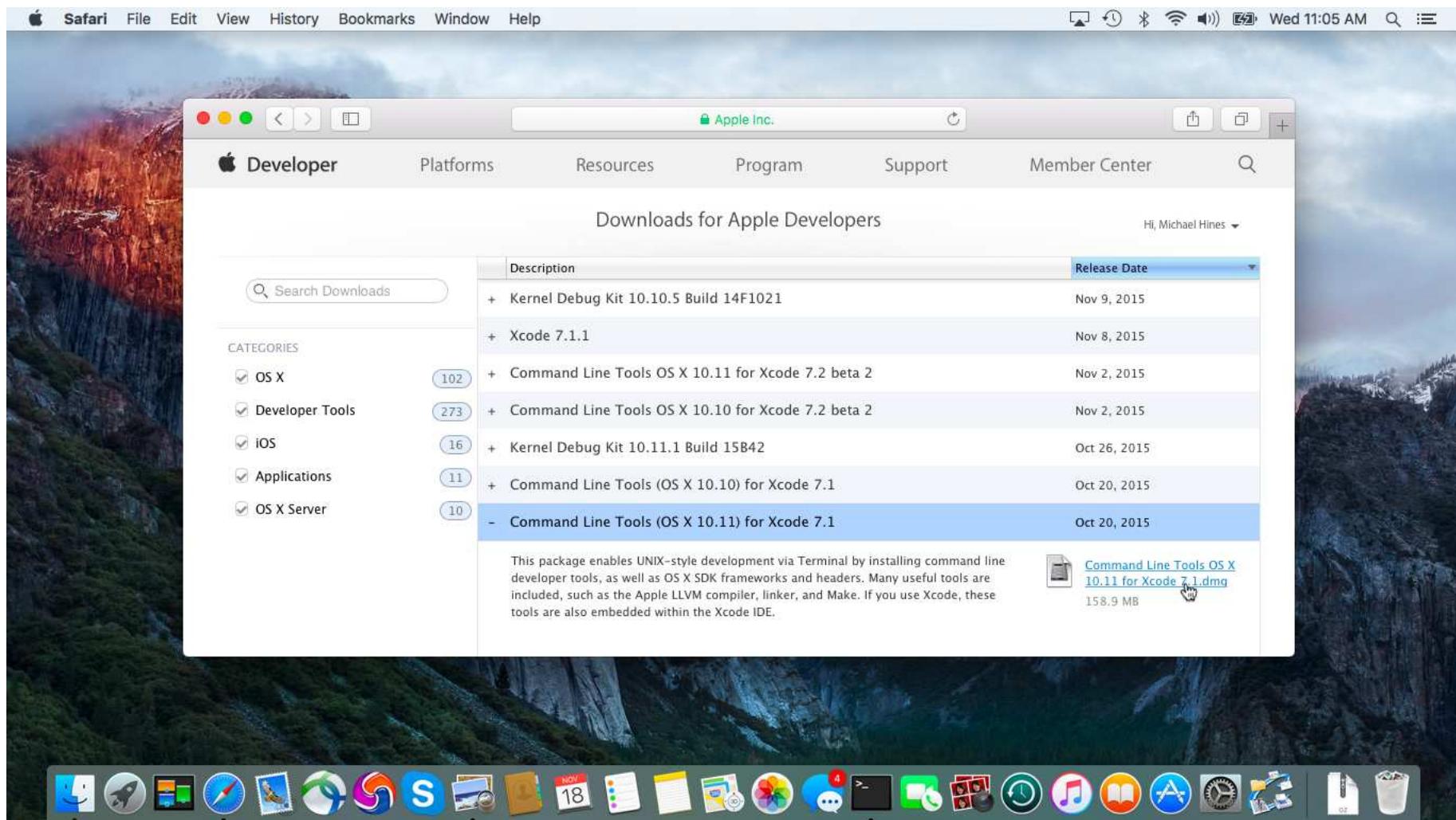
Sign in with your Apple ID. Use the Apple ID you used to register or register now. Apple ID: [REDACTED] Email: [REDACTED] Password: [REDACTED] Sign In

Finder Mail Safari iBooks

Anyone can be a Developer



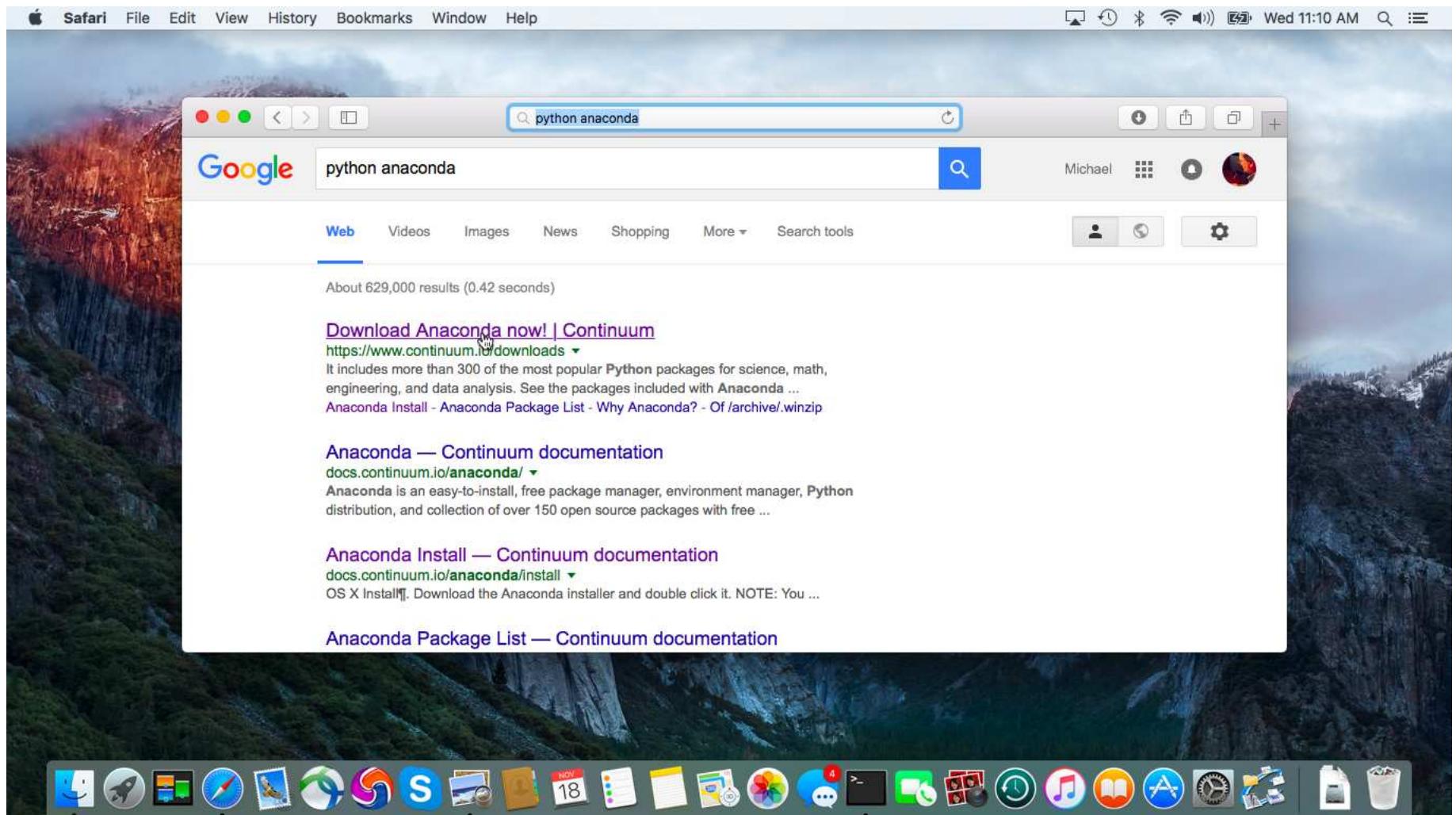
Double click on the correct one ... and the download URL will be displayed.



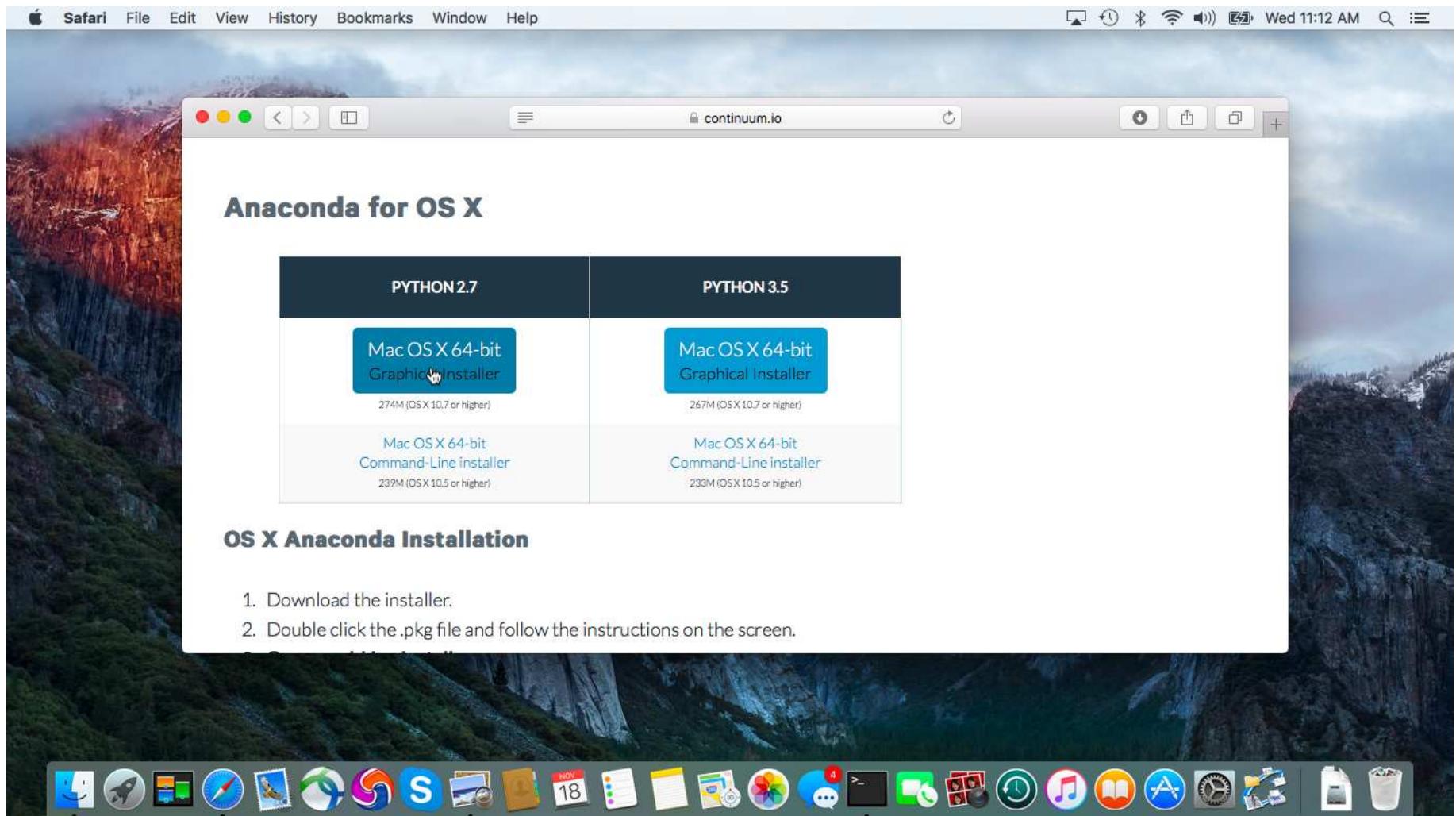
Open and install in the usual way.



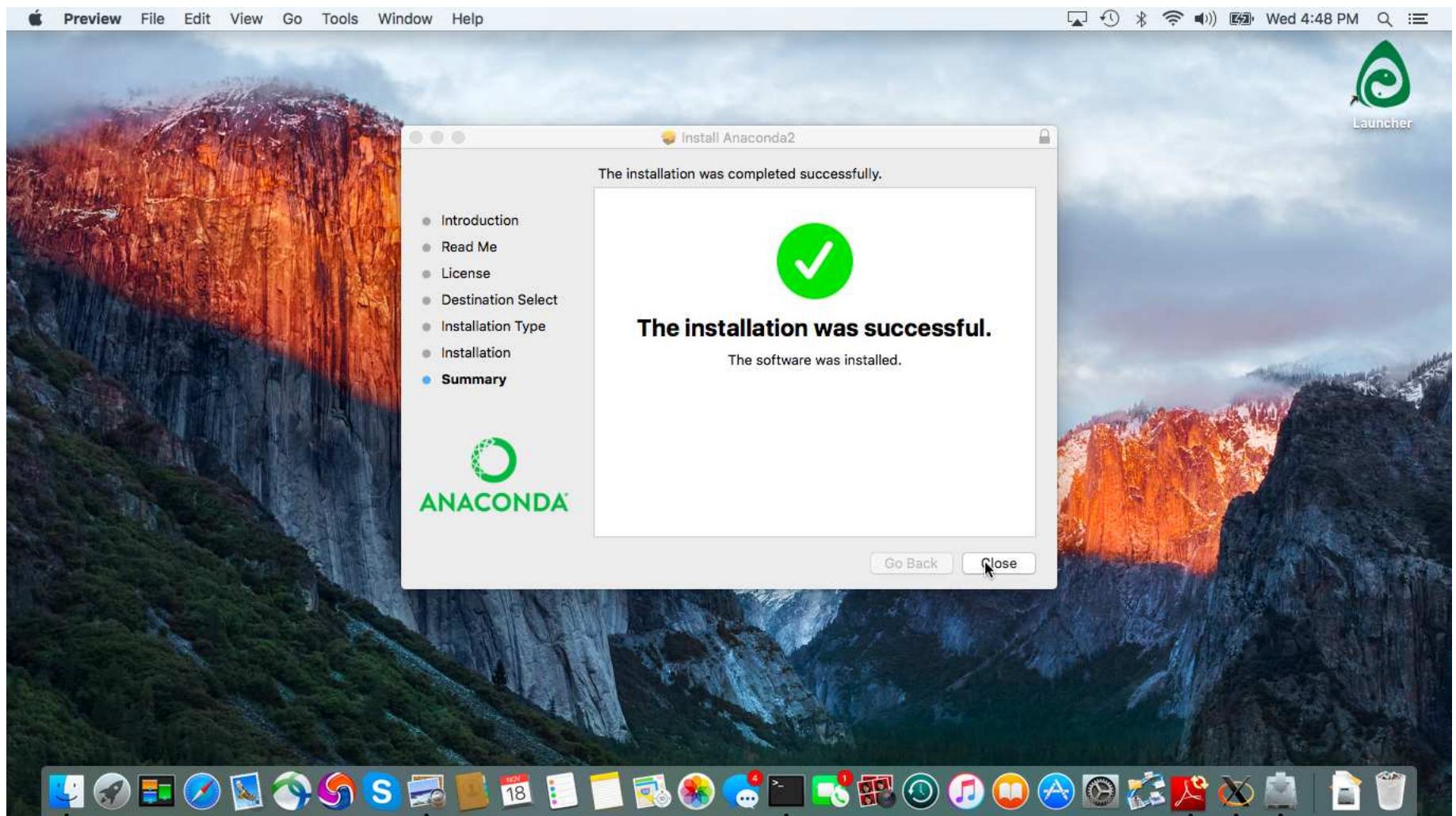
Python and easy_install come with the mac but...



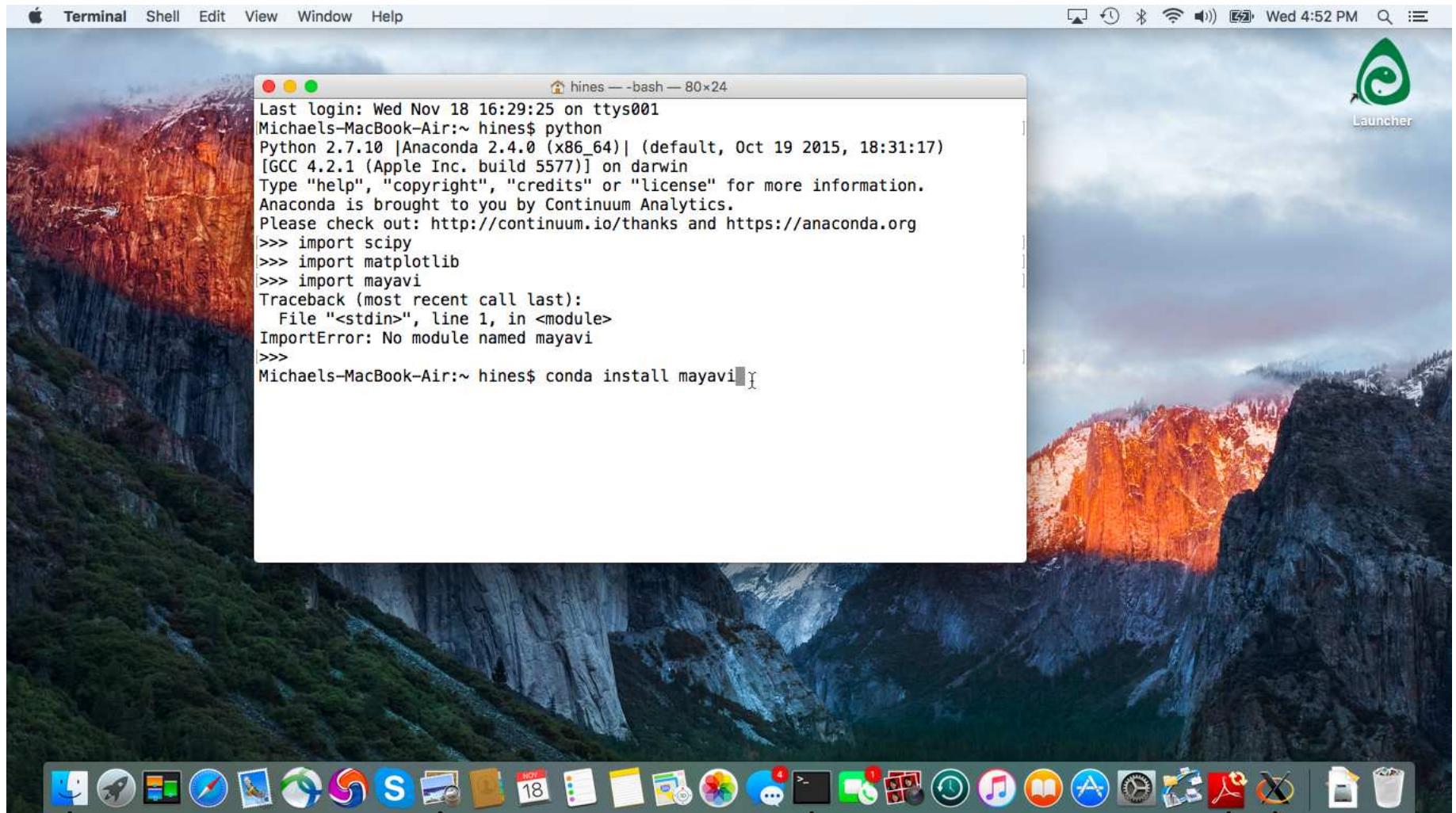
this is an easy way to get OpenMPI and Mayavi



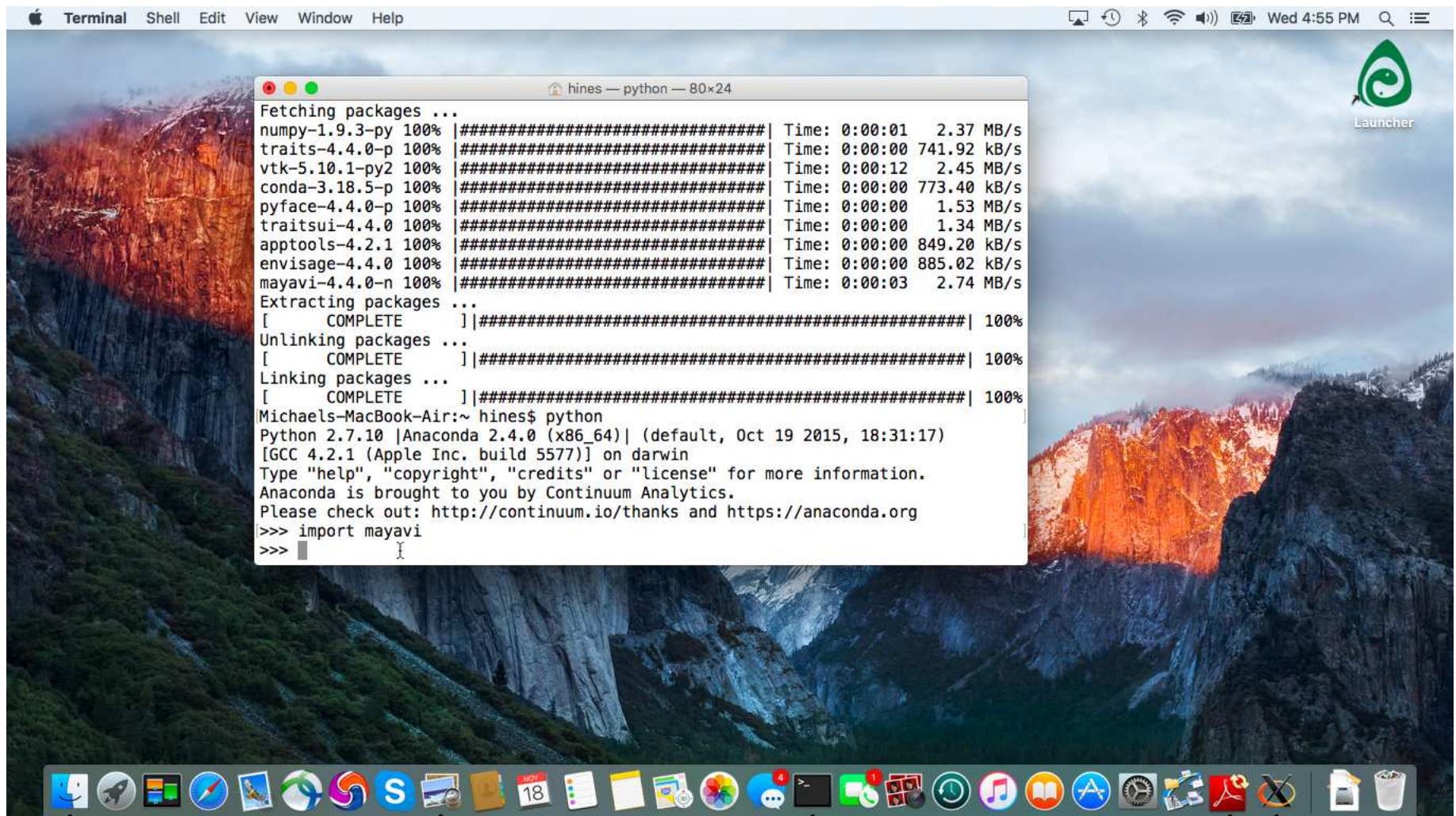
So what do we have?



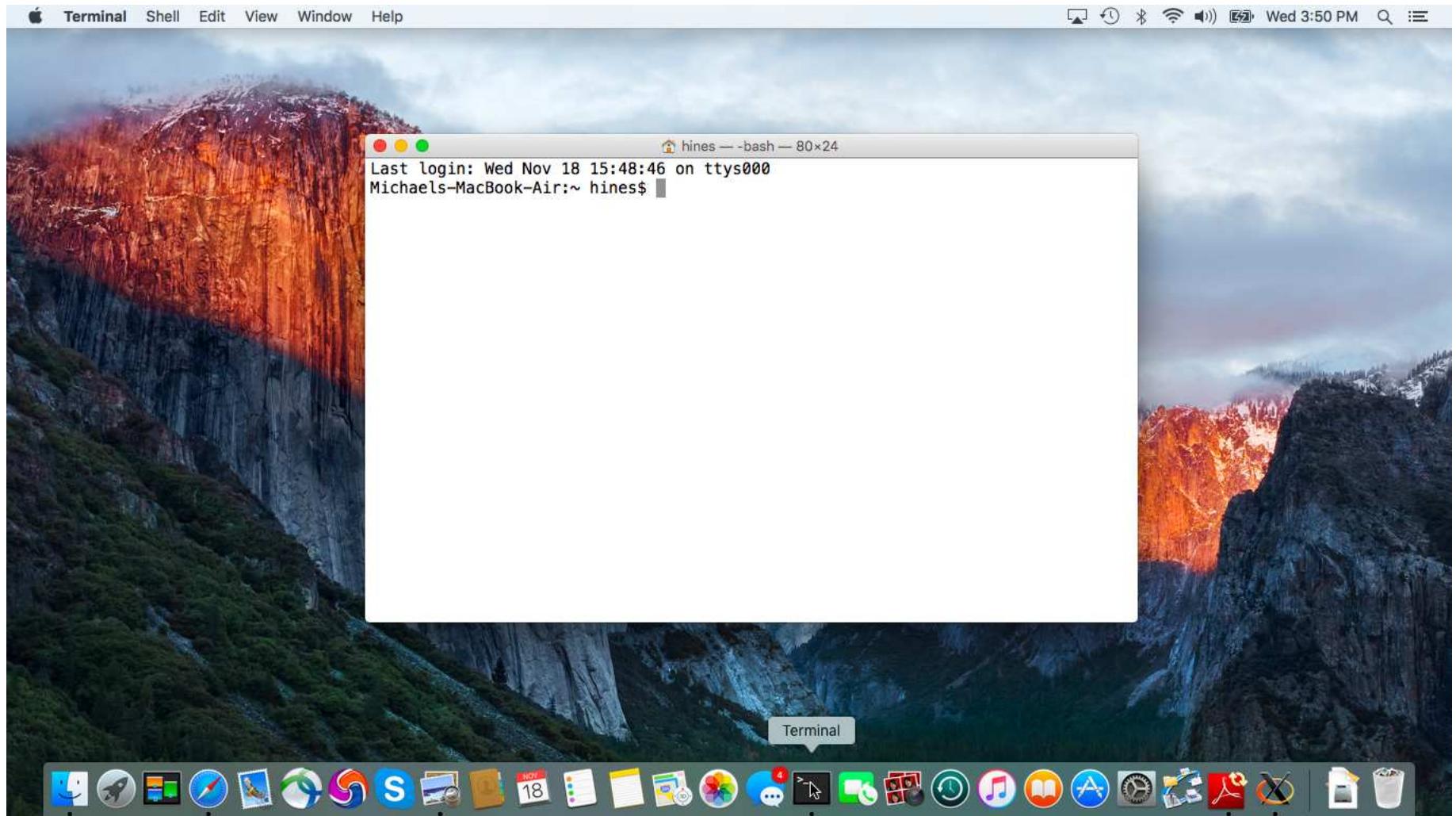
Scipy, matplotlib, but not mayavi... conda install mayavi



and now mayavi can be imported.

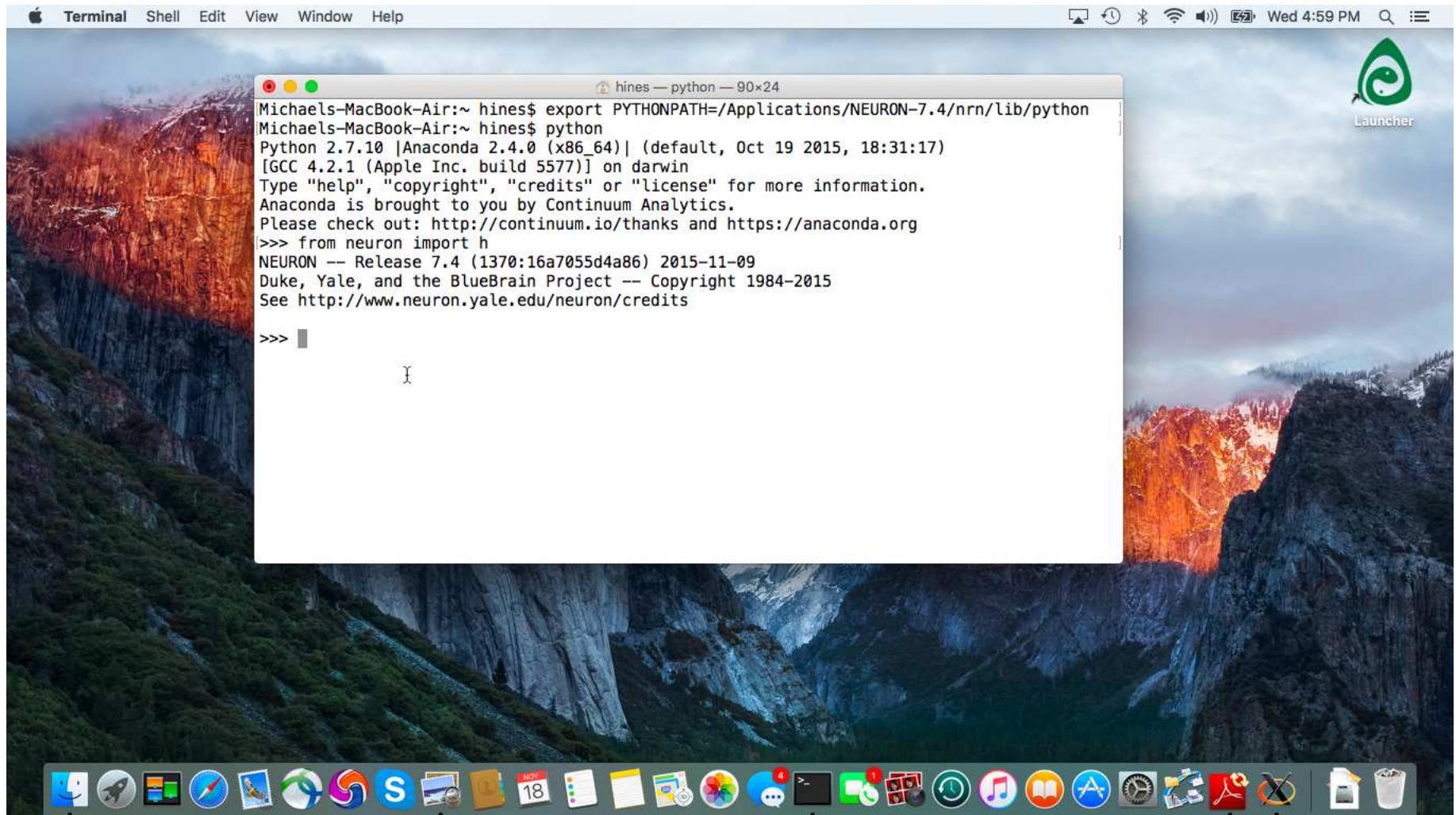


Test a few things by opening a Terminal window. /Applications/Utilities/Terminal

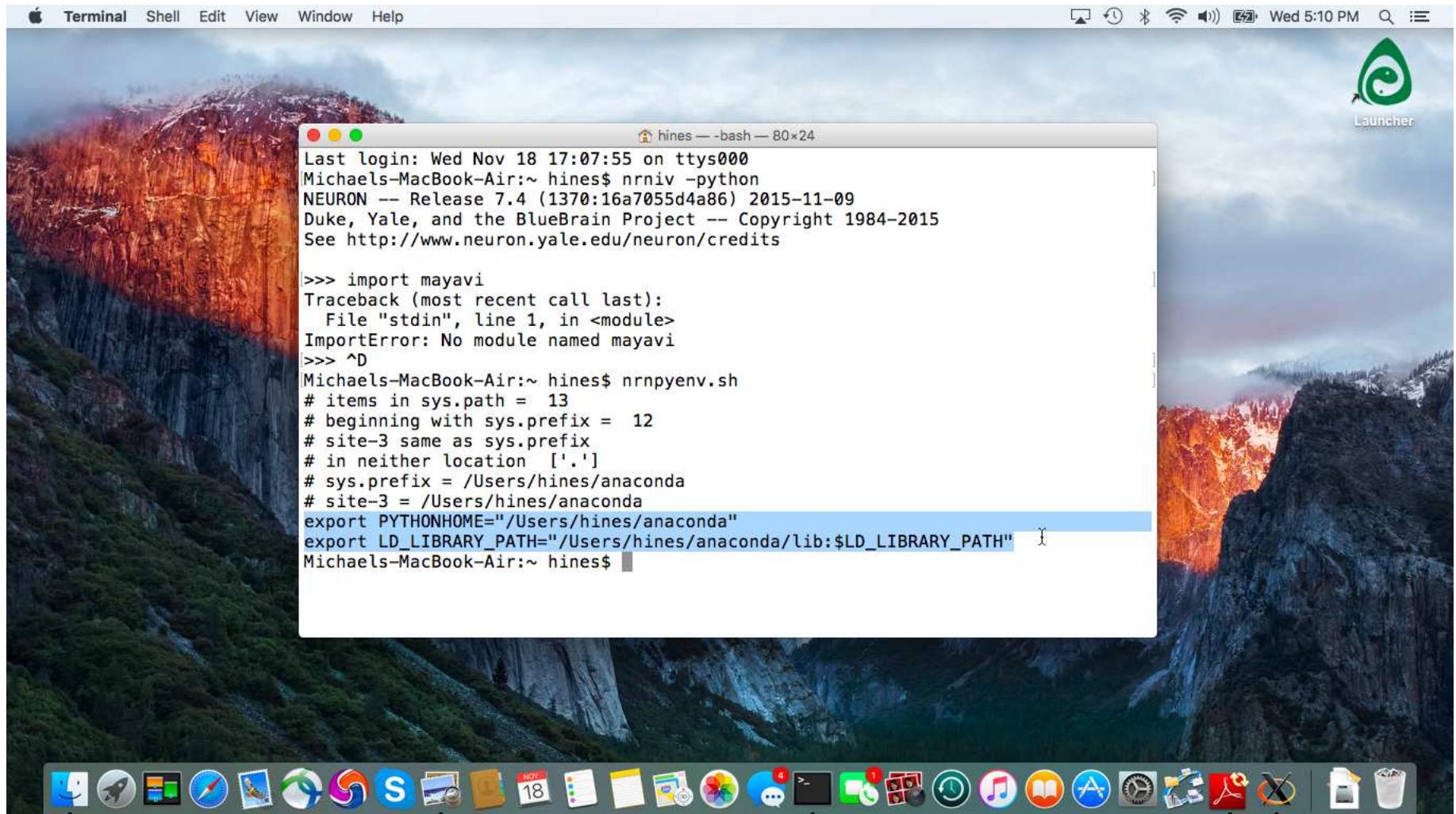


With PYTHONPATH, Python can import neuron

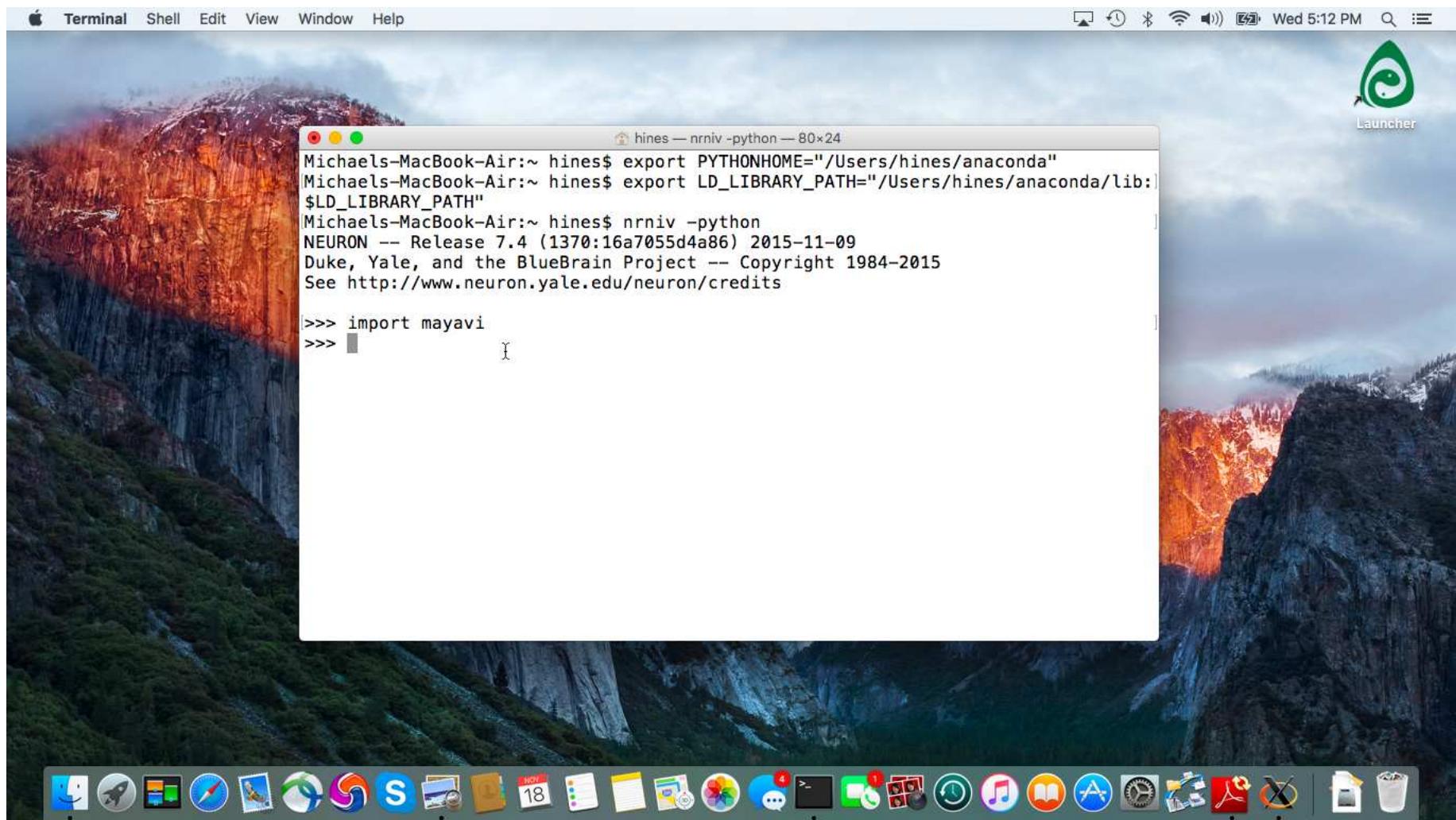
/Applications/NEURON-7.4/nrn/lib/python



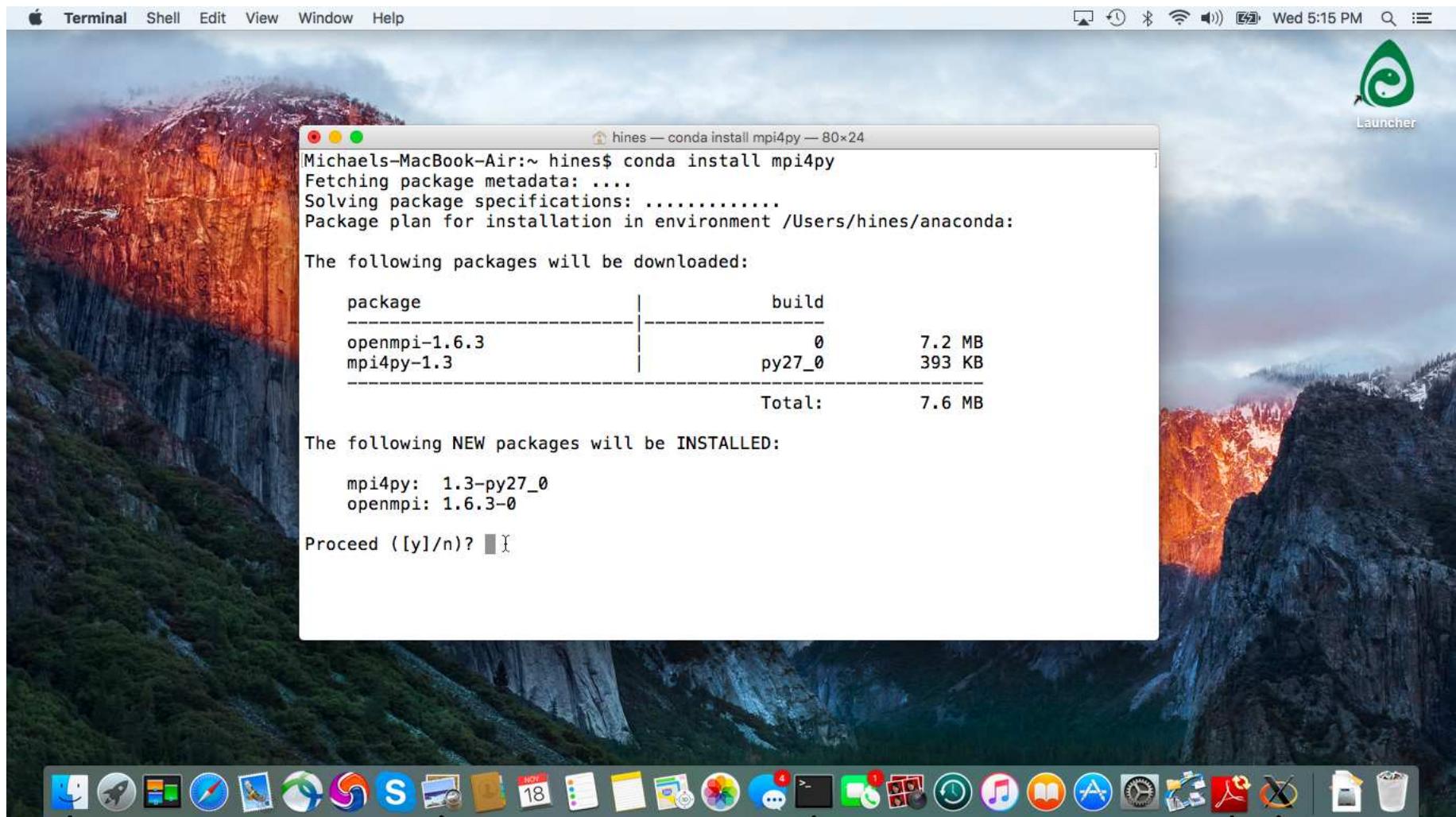
nrnpyenv.sh helps with environment variables



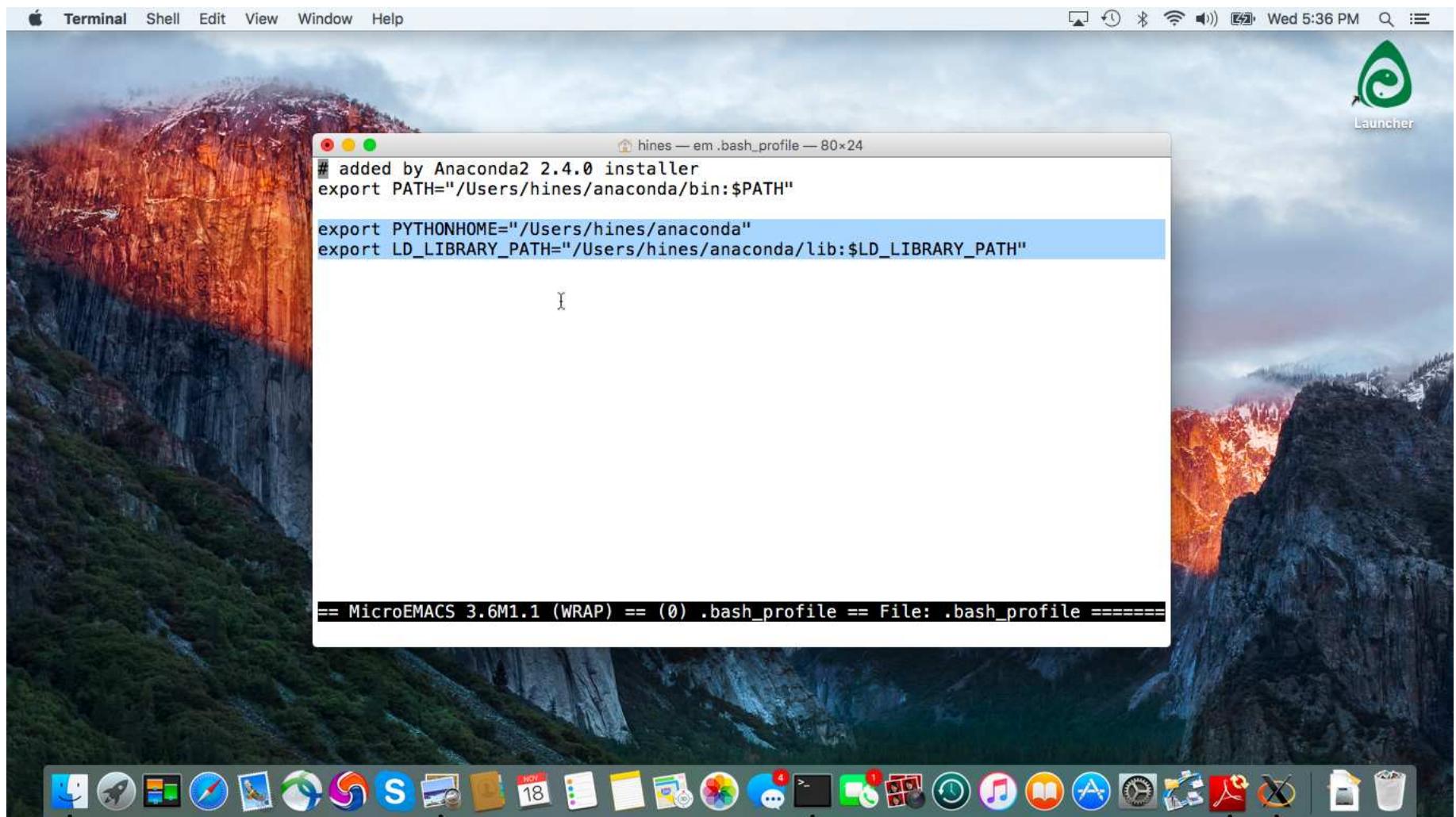
copy/paste allows nrniv to find anaconda packages.



"conda install mpi4py" also installs openmpi



Add the exports to your \$HOME/.bash_profile



MPI works.

