**Installing OpenCV on a MAC**

**STEP 1** - Install Xcode

1. Go to - https://developer.apple.com/xcode/
2. Follow the installation instructions there, should be pretty straight forward to do.

**STEP 2** - Install Homebrew

1. Open the Terminal, by going to: Applications → Utilities → **Terminal**

*2. Type the following lines. Note do not type the red numbers, they are simply line*

cd ~  
ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

3. Homebrew has now been successfully installed. We can run an update by doing:

brew install python

**STEP 3 - Install the Anaconda Python Package**

1. Go to: https://www.continuum.io/downloads

2. Select the OSX installer (choose python 2.7, we can use Python 3.5, however most python libraries are not yet compatible with python 2.7(

3. Follow the Installation instructions, should be pretty standard, however Continuum has a guide here: https://docs.continuum.io/anaconda/install

4. Anaconda which includes Python and lots of useful libraries is now installed.

**STEP 4A – Install OpenCV 2.4.13**

1. Go to terminal window and type the following:

2. Type the following lines:

brew tap homebrew/science  
brew install opencv

**NOTE**: Your OpenCV installation files will be downloaded and installed here:

*/usr/local/Cellar/opencv/2.4.13/*

3. Set up Python by creating symlinks.

cd /Library/Python/2.7/site-packages/  
ln -s /usr/local/Cellar/opencv/2.4.13/lib/python2.7/site-packages/cv.py cv.py  
ln -s /usr/local/Cellar/opencv/2.4.13/lib/python2.7/site-packages/cv2.so cv2.so

**OR**

**STEP 4B – Install OpenCV 3.0.0 (RECOMMENDED)**

1. Go to terminal window and type the following:

2. Type the following lines:

brew tap homebrew/science  
brew install opencv3 --with-contrib –-with-ffmpeg

3. That’s it, OpenCV 3.0.0 would have been successfully installed.

**STEP 5 – Launch an Ipython Notebook and test.**

1. Go to terminal window and type the following: jupyter notebook

2. Open a new ipython notebook. By clicking new located near the top right of the screen (see red 1 below) and then under Notebooks, click on Python 2 (see red 2 below).

3. When out notebook file loads, type the 3 following lines of code as shown in the image below.

import cv2  
import numpy  
import matplotlib  
print("Packages successfully imported")

4. If successful, you should see the statement “Packages successfully imported” as shown below:

#### **UPDATE:**

If the above methods fail which has been happening to a lot of students due to changes in OpenCV, Anaconda etc. Please try the following alternative methods:

1. From terminal type and run the following.

conda install -c https://conda.binstar.org/menpo opencv

OR

2. Running a docker image with OpenCV 3.2 already pre-installed.

[Instructions Found Here](https://hub.docker.com/r/waleedka/modern-deep-learning/)