Installing OpenCV on Mac OSX Mountain Lion with Python Support

- Download Xcode
- Download XCode command tools
  - Open XCode -> Preferences -> Downloads -> Components -> Command Line Tools
- Download and install CMake
- Download and install Python 2.7.3 (note: Mac comes with Python. Don't download, else 2 copies can cause confusion that leads to segmentation fault)
- Install ScipySuperpack (https://github.com/fonnesbeck/ScipySuperpack)
  - sh install_superpack.sh
- Download OpenCV 2.4.2 and Extract OpenCV-2.4.2.tar.bz2
- At OpenCV-2.4.2 directory:
  - mkdir release
  - cd release
- cmake -D CMAKE_BUILD_TYPE=RELEASE -D CMAKE_INSTALL_PREFIX=/usr/local -D BUILD_NEW_PYTHON_SUPPORT=ON -D BUILD_EXAMPLES=ON ..
- Compile with: make -j8
- sudo make install
- Update your bash_profile: add "export PYTHONPATH=/usr/local/lib/python2.7/site-packages/:$PYTHONPATH" (optional. Can use os.chdir("…") in the python program to do it)

note that if get “segmentation fault 11” after typing import cv, it means there are multiple copies of python and at some point in time more than one version of python was used.

In such a scenario, remove all python and reinstall just one version.

To install opencv python on Windows (works for Anaconda too)

1) Install Python 2.7. Install in folder, say, D:\Python27

2) Install Numpy. (steps 1 and 2 can be combined if install Anaconda)

3) Double-click OpenCV.exe. It will extract all files to your chosen directory (eg. D:\opencv\)

4) Copy everything in the folder D:\opencv\build\python\x86\2.7\ (most probably, there will be only one file cv2.pyd) and paste it in the folder D:\Python27\Lib\site-packages\

5) Now open your "Python IDLE" (from Start > All Programmes > Python 2.7 > Python IDLE) and type the following :
import cv2

If the installation is successful, it will import cv2 module and you won't get any error message.

NB : Even if you are using 64-bit windows, do the same procedure. (Better don't go for 64-bit Python and Numpy).