Install Conda Python with OpenCV and Keras

This will create a conda environment with python 3.7 compatible with opencv3 and keras
Mac/Linux: Manually installing packages.

(we recommend using miniconda, but this should also work with the full conda installation.)

On Mac OS X:
Download Anaconda (https://www.anaconda.com/download/)
or Miniconda (https://conda.io/miniconda.html) from the conda web site.
You can use the shell script installer (.sh) or the installation package (.pkg)

For Miniconda using bash, open a terminal window and navigate to the directory where conda has been downloaded Miniconda3-latest-MacOSX-x86_64.sh to and run:
$ bash Miniconda3-latest-MacOSX-x86_64.sh

For Anaconda using the installer program, double click the Anaconda3-5.0.1-MacOSX-x86_64.pkg

On Linux:
For Miniconda, open a terminal and navigate to the directory you downloaded Miniconda3-latest-Linux-x86_64.sh to and run:
$ bash Miniconda3-latest-Linux-x86_64.sh

For Anaconda, open a terminal and navigate to the directory you downloaded Anaconda3-5.0.1-Linux-x86_64.sh to and run:
$ bash Anaconda3-5.0.1-Linux-x86_64.sh

On both Mac OS X and Linux:

1) Create and activate a Python 3.7 conda environment called keras.
Note that Keras will not currently run on the latest versions of python
$ conda create -n keras python=3.7
$ source activate keras

2) Install Numpy (http://www.numpy.org/) version 1.16.
It seems that keras will not run properly with the latest numpy
$ conda install numpy=1.16.4

3) Install Matplotlib (https://matplotlib.org/)
$ conda install matplotlib

4) Install Keras from https://keras.io/
#This should also install tensorflow
$ conda install keras

5) Install Jupyter Notebook (http://jupyter.org/)
$ conda install jupyter notebook

6) Install IPython (https://ipython.org/)
$ conda install ipython

7) Install OpenCV (https://opencv.org/) from the conda forge.

$ conda install -c conda-forge opencv

# if the import cv2 does not work with this install, try instead:
$ conda install -c https://conda.anaconda.org/menpo opencv3

8) Optional. You may also wish to install h5py

# Install h5py (http://www.h5py.org/)
$ conda install h5py