CIS4350: Uniform Python Environment Set-up Instruction

To make the following-up Labs easier, we will unify the working environment to be Ubuntu or Linux-like system, like IOS.

I. Ubuntu in Windows System

Skip this part if you are already working with Ubuntu.

1. Download a, for instance, 32-bit Ubuntu ISO-image from here. Save the ISO file (called ubuntu-X.Y-**desktop**-386.iso for Ubuntu version X.Y) somewhere on your computer. 10-14 minutes.

2. Download VMWare Player from here.

3. Click the installer to install either of them on your system.

4. Follow the Youtube video to install Ubuntu 14.04 in VMWare Player. Then you have a Linux environment. (another 10-15 minutes).

6. Install VMWare Tools (Optional)

5. Go to Section II and set up the Python environment in Ubuntu.

II. Python environment in Ubuntu

1. Check whether Python is installed in your system by typing 'python' in the terminal.

2. Install easy-install tool **pip** for Python packages. On Mac, please search yourself

```
wget https://bootstrap.pypa.io/get-pip.py

sudo python get-pip.py
```

3. Install the scientific python pack in Ubuntu, on Mac, refer to http://www.scipy.org/install.html. 5-10 minutes.

```
sudo apt-get install python-numpy python-scipy python-matplotlib ipython ipython-notebook python-pandas python-sympy python-nose
```

4. Install Spyder IDE for Python with **pip** tool.

```
sudo apt-get install python-qt4 python-sphinx

sudo pip install spyder
```