**CIS4350: Uniform Python Environment Set-up Instruction**

To make the following-up Labs much 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](http://www.ubuntu.com/GetUbuntu/download). 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](https://www.youtube.com/watch?v=Lv6V6ESOyUk) to install Ubuntu 14.04 in VMWare Player. Then you have a Linux environment. (another 10-15 minutes).

6. Install VMWare Tools by click Player->

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