Instructions for setting up Jupyter Notebook

CSE5243 SP20

January 2020

We are going to use Python/Jupyter Notebook for programming assignments for CSE 5243. This tutorial will help you install these tools on your computer.

1 Install Python

First check whether you have python on your computer. You can use one of the following commands.

```
python --version
which python
```

If your version is 2.7 or 3.6 above, you can skip this step.
For Mac user, please run:

```
xcode-select --install
brew install python   #install python3
brew install python@2    #install python2
```

After installation, you need to insert the Python directory at the top of your PATH environment variable. Add these lines in .bash_profile.

```
# Setting PATH for Python 3.6
# The orginal version is saved in .bash_profile.pysave
PATH="/Library/Frameworks/Python.framework/Versions/3.6/bin:${PATH}
    "
export PATH
```

For Linux user, please run:

```
sudo apt-get update
sudo apt-get install python3.6 python3-pip  #install python3
sudo apt-get install python2.7 python2-pip  #install python2
```

2 Install Jupyter

First check whether you Jupyter on your computer. If your have, you can skip this step.

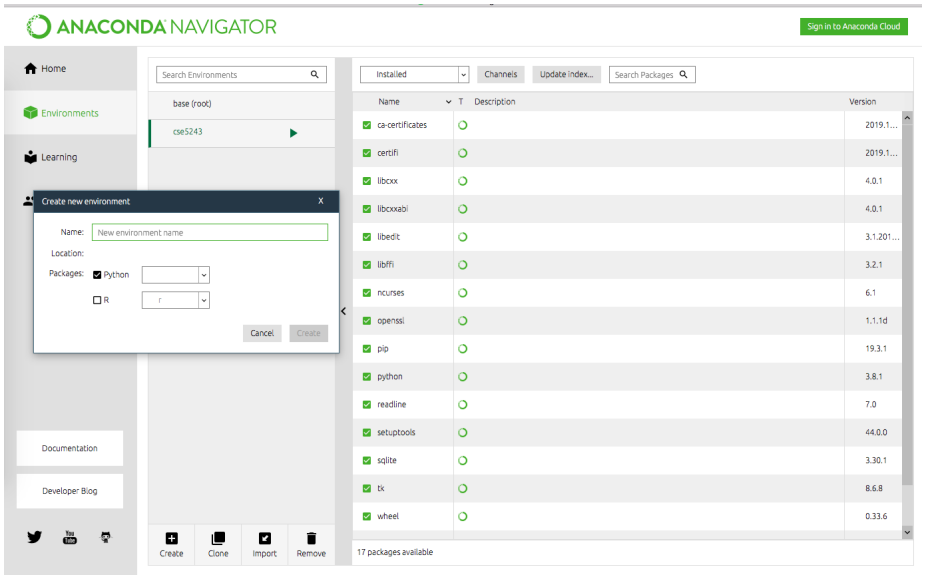
```
#Make sure you have upgraded pip to the latest version
pip install --user --upgrade pip
pip install --user --upgrade jupyter
which jupyter
jupyter notebook
```

3 Create virtual environment

A virtual environment is a tool that helps to keep dependencies required by different projects separate by creating isolated python virtual environments for them.

```
pip install --user virtualenv
virtualenv --version    #check installation
virtualenv my_name    #create a virtual environment
virtualenv -p /usr/bin/python3 virtualenv_name    #Or you can
    specify your environment
```

An alternative way is to install avaconda and use it to install all packages.



Now we can get started with Jupyter notebook!