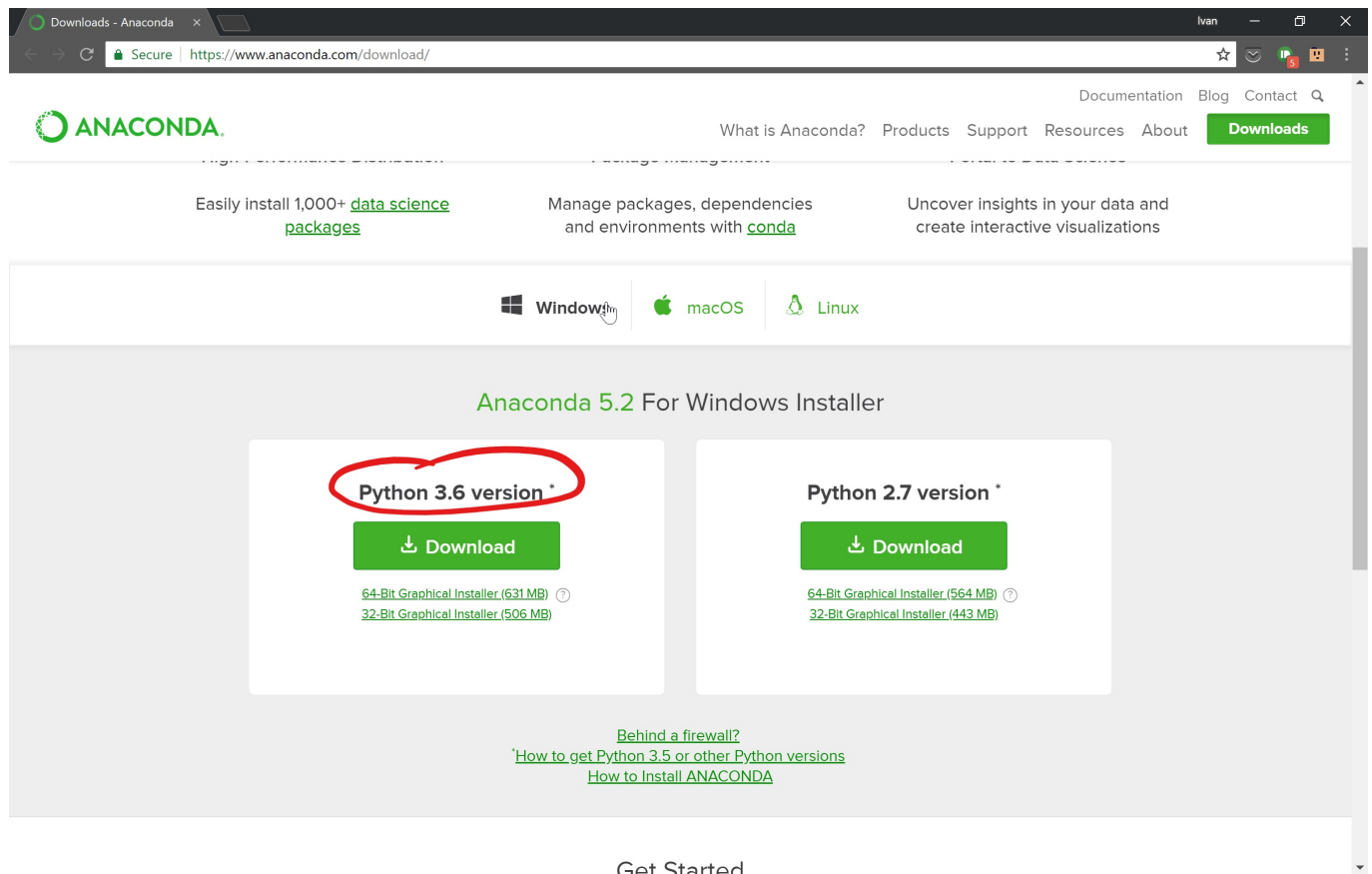# A Quick Guide to Installing Python (& Friends)

1. Install Anaconda

- Download Anaconda
- Download the version of Anaconda appropriate for your operating system (mine is Windows 64-bit)
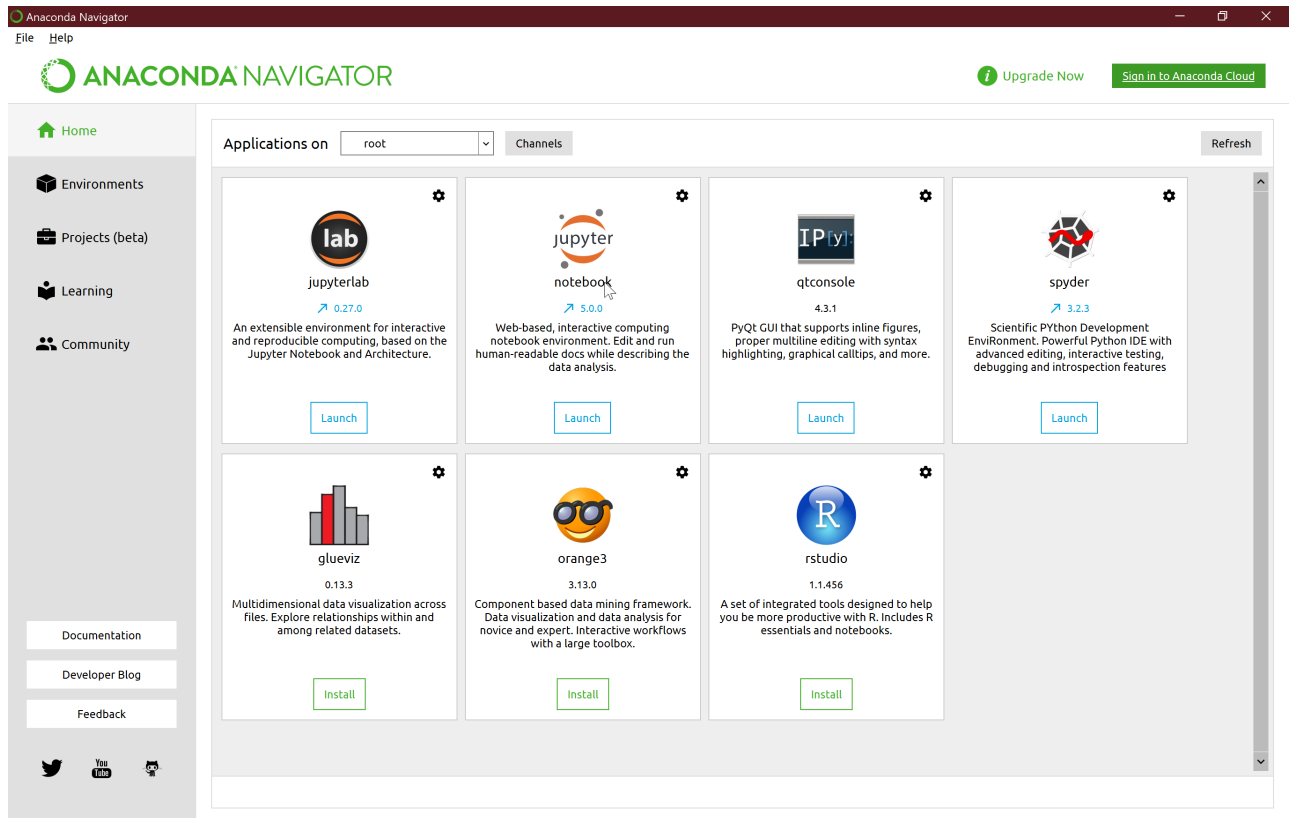- Python 3.x is recommended


- Install the program that you downloaded

2. Open the Anaconda Navigator & Set Up Environment

- Installing Anaconda should have installed a program called Anaconda Navigator. Open that program.
  - Note: If you do not see this program, reinstall Anaconda and make sure to install Navigator

- Your program should look like this:

- Now, navigate to environments to create a new environment
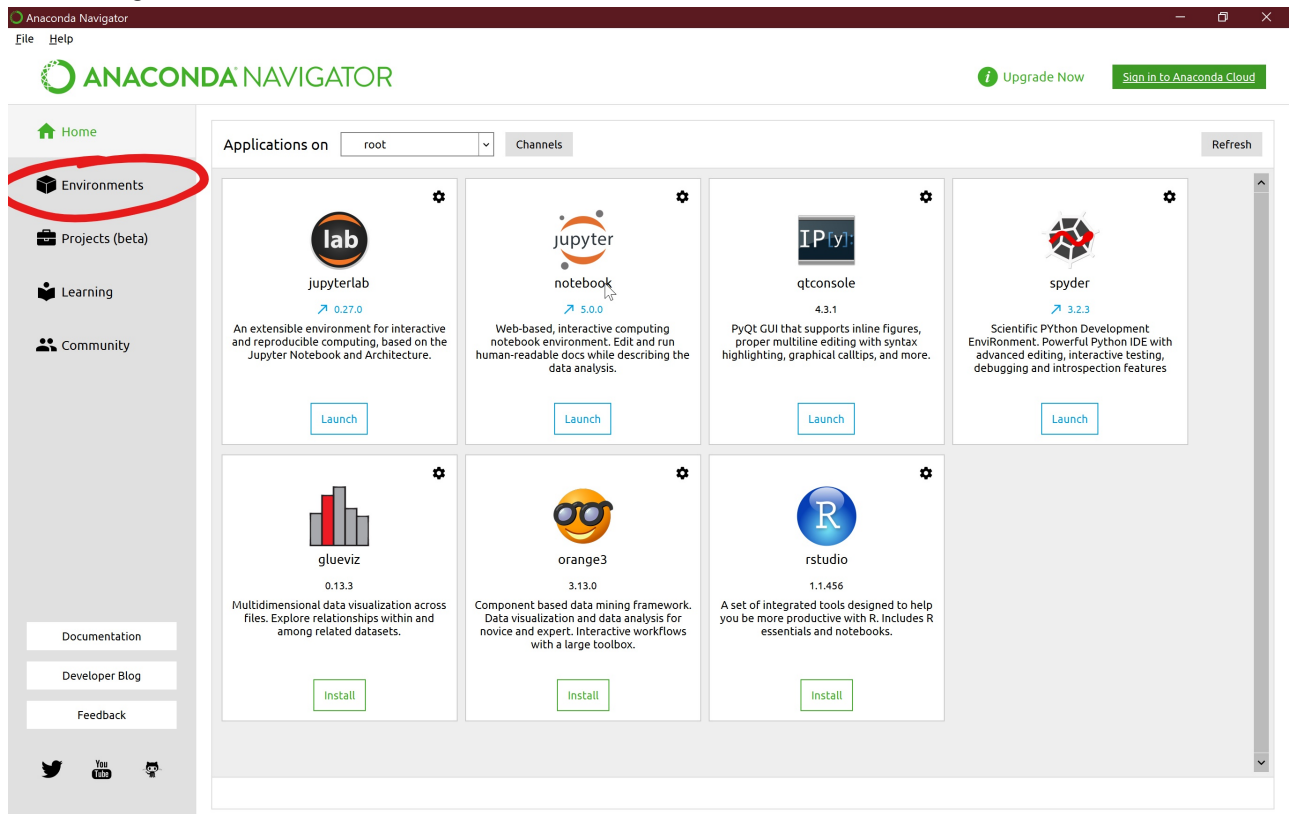
- Click `Create` and name the new environment whatever you would like (mine is named bme505)
- Now we need to add dependencies (like numpy) to our new environment
    - Make sure that display is set to Not Installed
    - Search for the package that you want to install and check the box next to its name
    - Once you have found all the packages you want to install, click Apply
    - For the purposes of the class/python workshop, these packages are important to install:
        - `numpy`, `scipy`, `matplotlib`

- for the neuroscience people out there mne is a very useful package for processing EEG and MEG data
  - You will be prompted to install the dependencies of the packages that you have selected, click `Apply` again
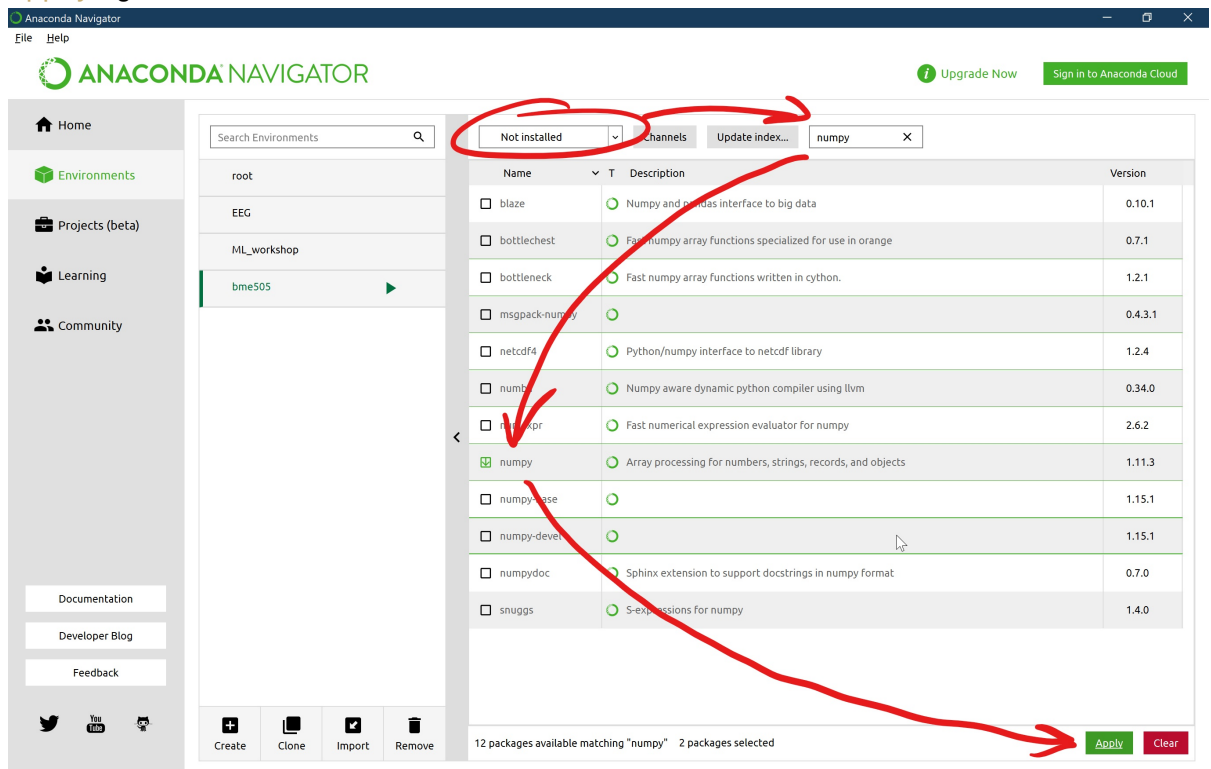
3. Install Spyder

- Once all of the dependencies have been installed, go back to the Home screen
- Make sure that the environment that you created is selected and then install Spyder
- You're done! Click Launch under Spyder to start it

4. Other Resources

- Numpy documentation and resources
- Matplotlib documentation
- Python tutorial
  - The python tutorial is really long, but it has a lot of good information in it. If you have any questions about basic python stuff, then I would recommend taking a look there.