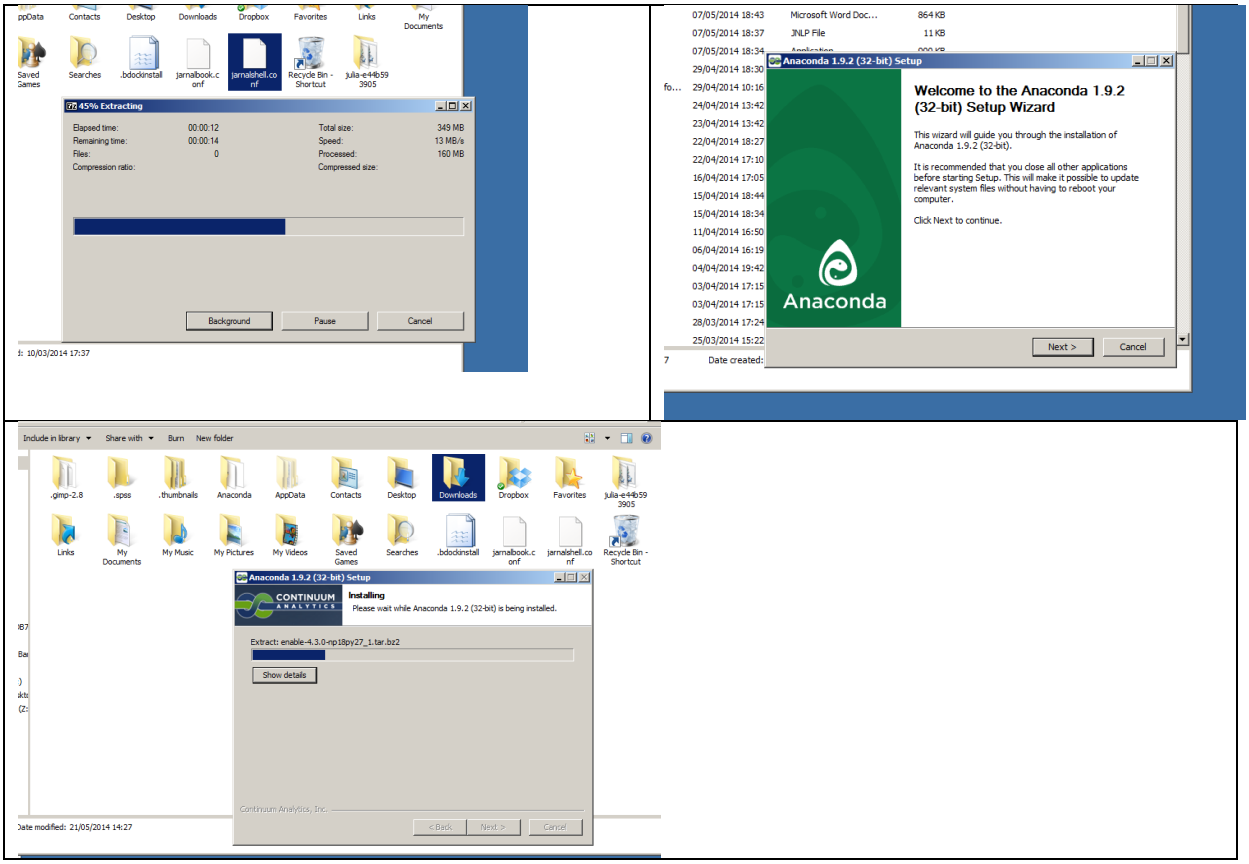
Step 1: Install the Main Software Platforms

1) Python – Advisably the most recent version of “Anaconda”
    a. http://continuum.io/downloads
2) Julia - Most Recent Version
    a. http://julialang.org/downloads/
3) Install Anaconda Python first, then Julia.

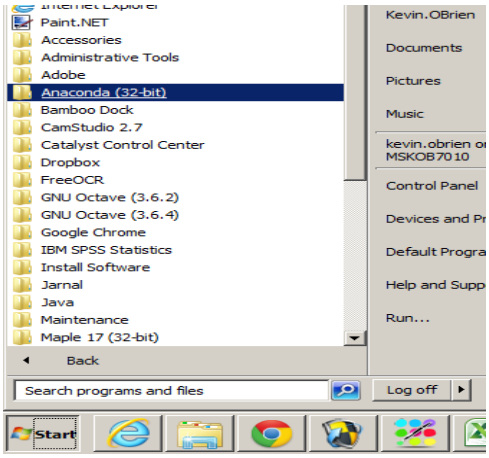
    (Specifically you should have IPython running before you install IJulia)

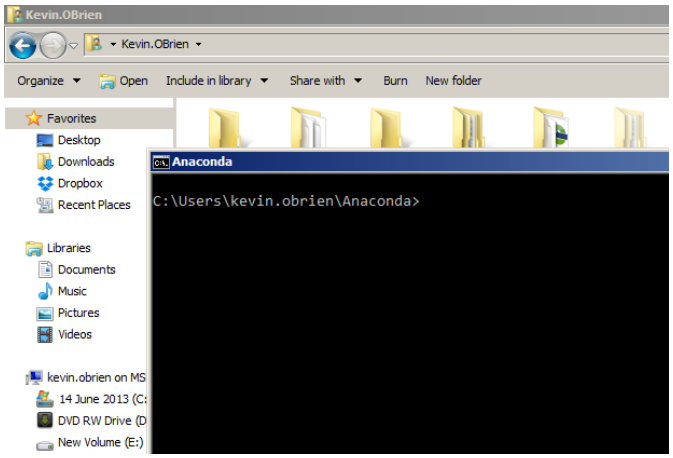
4) Install both in same working directory
5) Julia tends to be very quick to install, but Python can take much longer



Step 2: Anaconda

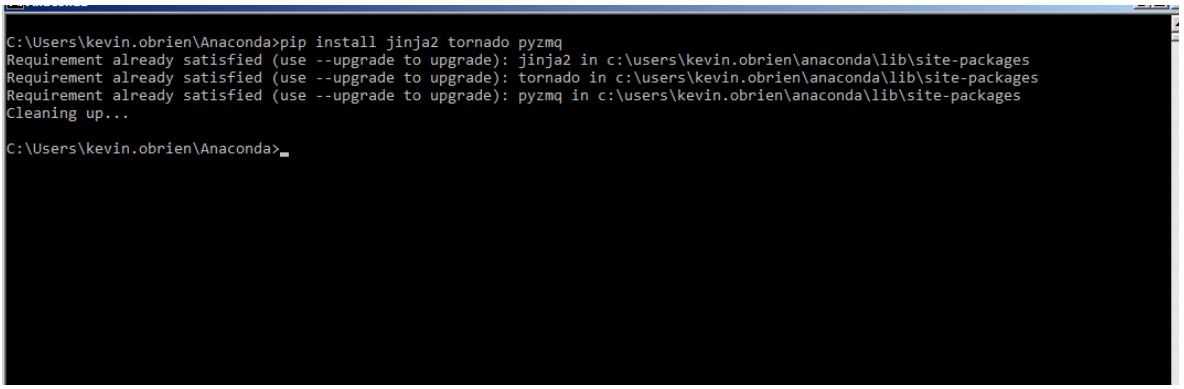
- Go to your start menu. Click on the Anaconda Folder, then the Anaconda command prompt.
- The Anaconda environment will appear.





- Type the following command. This installs necessary tools for the IPython Notebook. (You should be able to copy and paste this right in)

```
pip install jinja2 tornado pyzmq
```

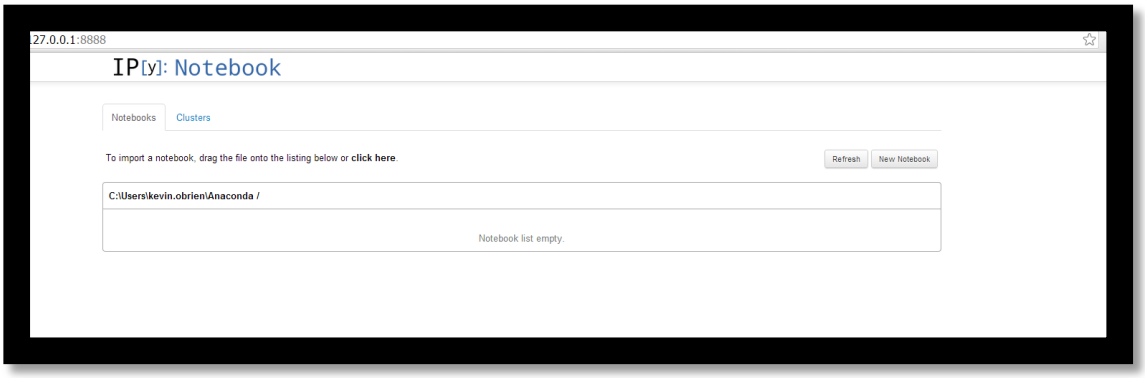


Step 3 : Creating an IPython Notebook

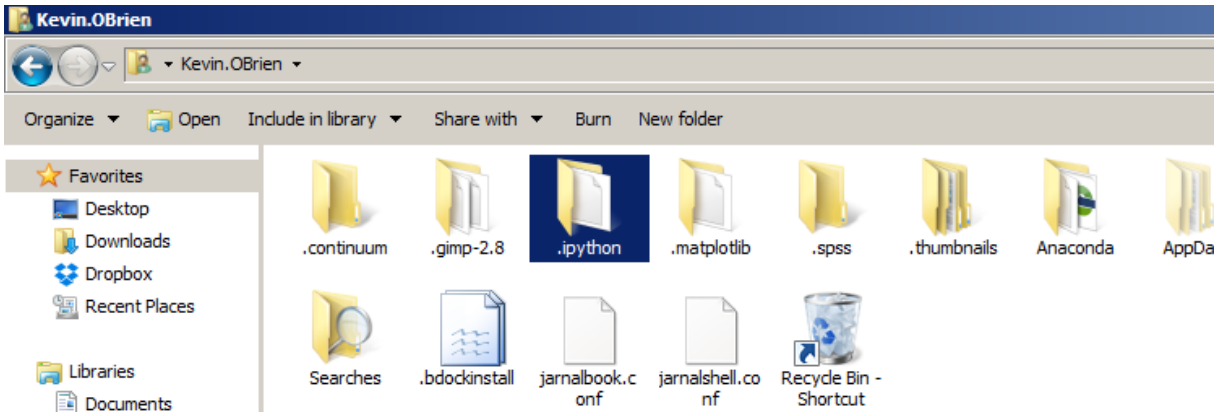
- You should be able to run ***IPython*** Notebook now (but not yet for ***IJulia***)
- In the Anaconda Environment - Type the following command

```
ipython notebook
```

- An IPython notebook should appear in your web browser.

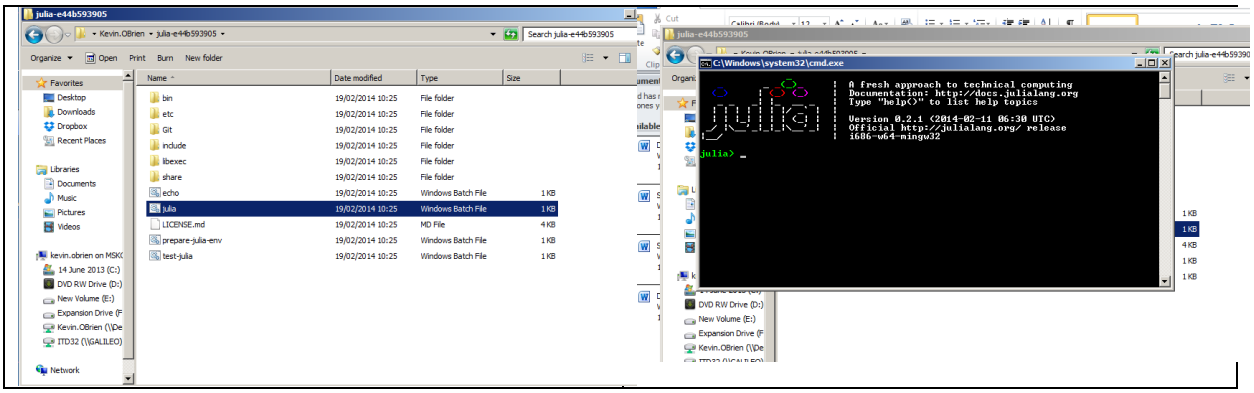


- Shut down the browser page.
- To return to the Anaconda prompt, press Control and C together twice.
- As an aside, you should have an ".ipython" folder in your working directory.



Step 4 : Load relevant packages for Julia

- Open the ***Julia*** folder in your working directory
- Click on the Windows Batch File file called "Julia" (*usually the second file in the list*)
- The command line interface will appear (*black background with a "Julia>" prompt*)



- Install the "***IJulia***" package using the following command
- You have to type this in, as Julia doesn't allow for copying and pasting.
- **Important:** Be mindful of capital letters in the command
- The command will run for a while. The screen output should alternate between blue and white output
- Red output indicates an error. This may be something to do with Firewall Settings

```
Pkg.add("IJulia")
```

- A folder called ".julia" should appear in your working directory.
- In the ".ipython" folder, there should be a sub folder called "profile_julia"

Step 5 : Running IJulia

- When the Julia packages have finished loading , go back to the Anaconda Environment.
- *(We will not be using the Julia environment anymore)*
- To start a new IJulia not book, type the following command.
- Note that there is no space between the minus signs and “profile”

```
ipython notebook --profile julia
```

- To check that IJulia is working properly, run the “eye test”.
- **`eye`** is the Julia and MATLAB command to create an n x n identity matrix.
- In the notebook, type in the following, then press the run button (Rightward pointing triangle)

```
eye(3)
```