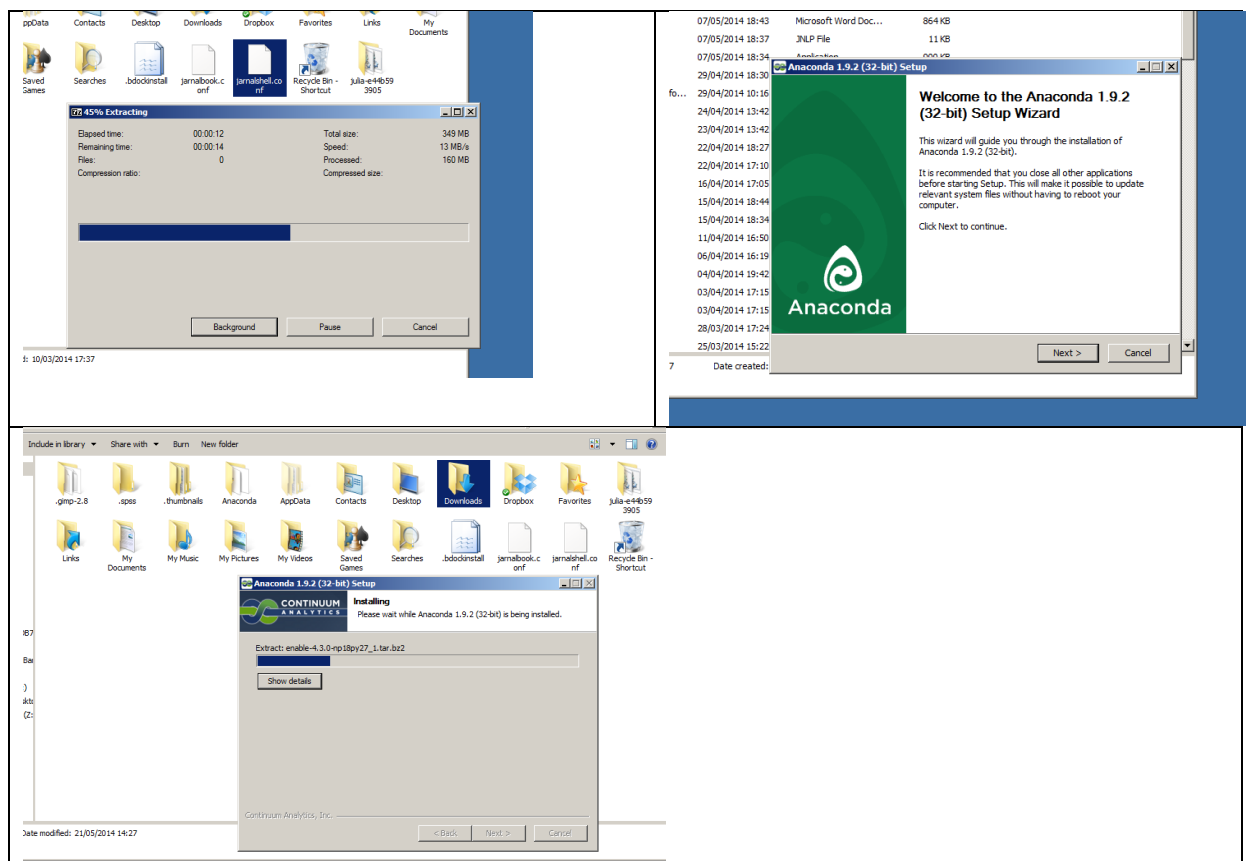


Step 1: Install the Main Software Platforms

- 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.

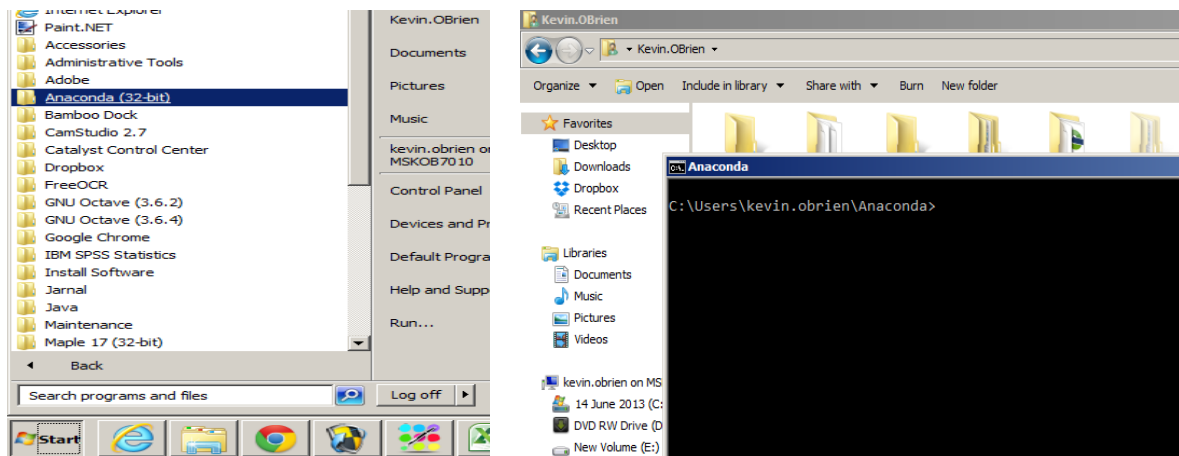
(Specifically you should have IPython running before you install IJulia)

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



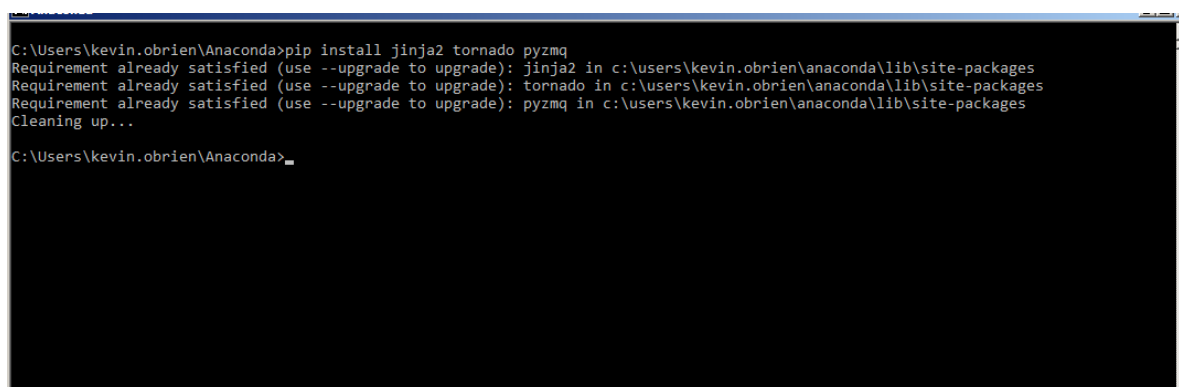
Step 2: Anaconda

- 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
```

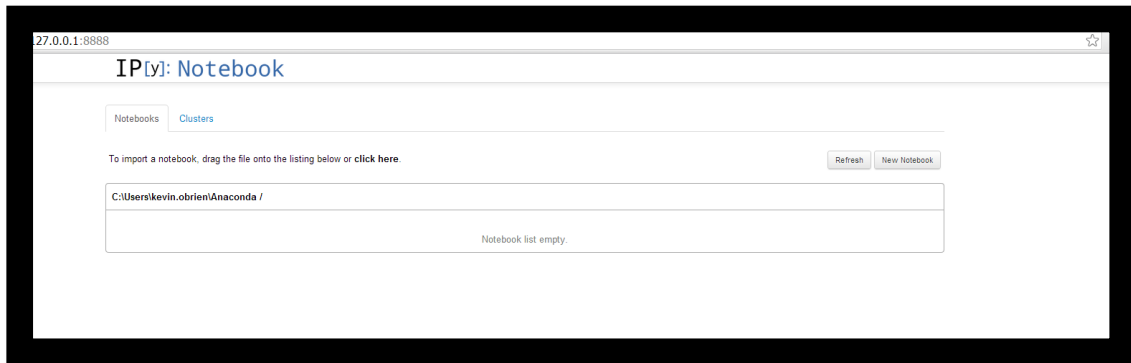


Step 3 : Creating an IPython Notebook

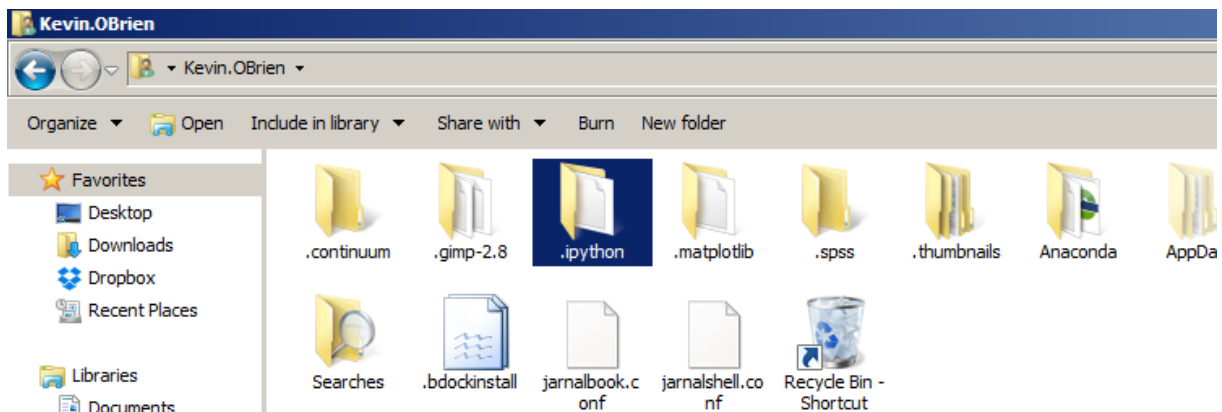
- You should be able to run **IPython** Notebook now (but not yet for **Julia**)
- In the Anaconda Environment - Type the following command

```
ipython notebook
```

- An IPython notebook should appear in your web browser.

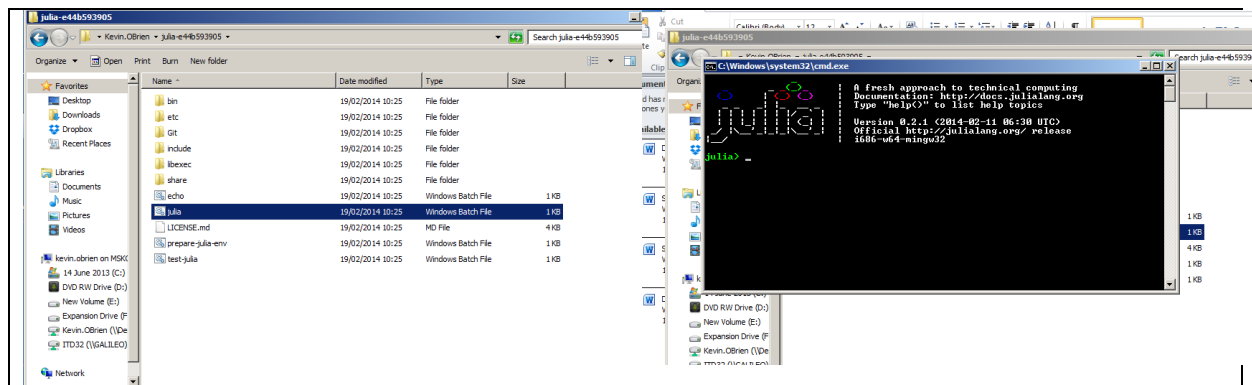


- Shut down the browser page.
- To return to the Anaconda prompt, press Control and C together twice.
- As an aside, you should have an “.ipython” folder in your working directory.



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 “**Julia**” 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")
```

```
C:\Windows\system32\cmd.exe
Julia Version 0.2.1 (2014-02-11 06:30 UTC)
Official http://julialang.org/ release
i686-mingw32

julia> Pkg.add("IJulia")
INFO: Initializing package repository M:\.julia\v0.2
INFO: Cloning METADATA from git://github.com/JuliaLang/METADATA.jl
INFO: Cloning cache of BinDeps from git://github.com/JuliaLang/BinDeps.jl.git
INFO: Cloning cache of HTTPClient from git://github.com/anitmurthy/HTTPClient.jl.git
INFO: Cloning cache of IJulia from git://github.com/JuliaLang/IJulia.jl.git
INFO: Cloning cache of JSON from git://github.com/JuliaLang/JSON.jl.git
INFO: Cloning cache of LibCURL from git://github.com/anitmurthy/LibCURL.jl.git
INFO: Cloning cache of LibExpat from git://github.com/anitmurthy/LibExpat.jl.git
INFO: Cloning cache of Nettle from git://github.com/staticfloat/Nettle.jl.git
INFO: Cloning cache of REPLCompletions from git://github.com/loladiro/REPLCompletions.jl.git
INFO: Cloning cache of URIParser from git://github.com/loladiro/URIParser.jl.git
INFO: Cloning cache of URLParse from git://github.com/tannayukh/URLParse.jl.git
INFO: Cloning cache of WinRPM from git://github.com/JuliaLang/WinRPM.jl.git
INFO: Cloning cache of ZMQ from git://github.com/JuliaLang/ZMQ.jl.git
```

- 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 $n \times n$ identity matrix.
- In the notebook, type in the following, then press the run button (Rightward pointing triangle)

```
eye(3)
```

