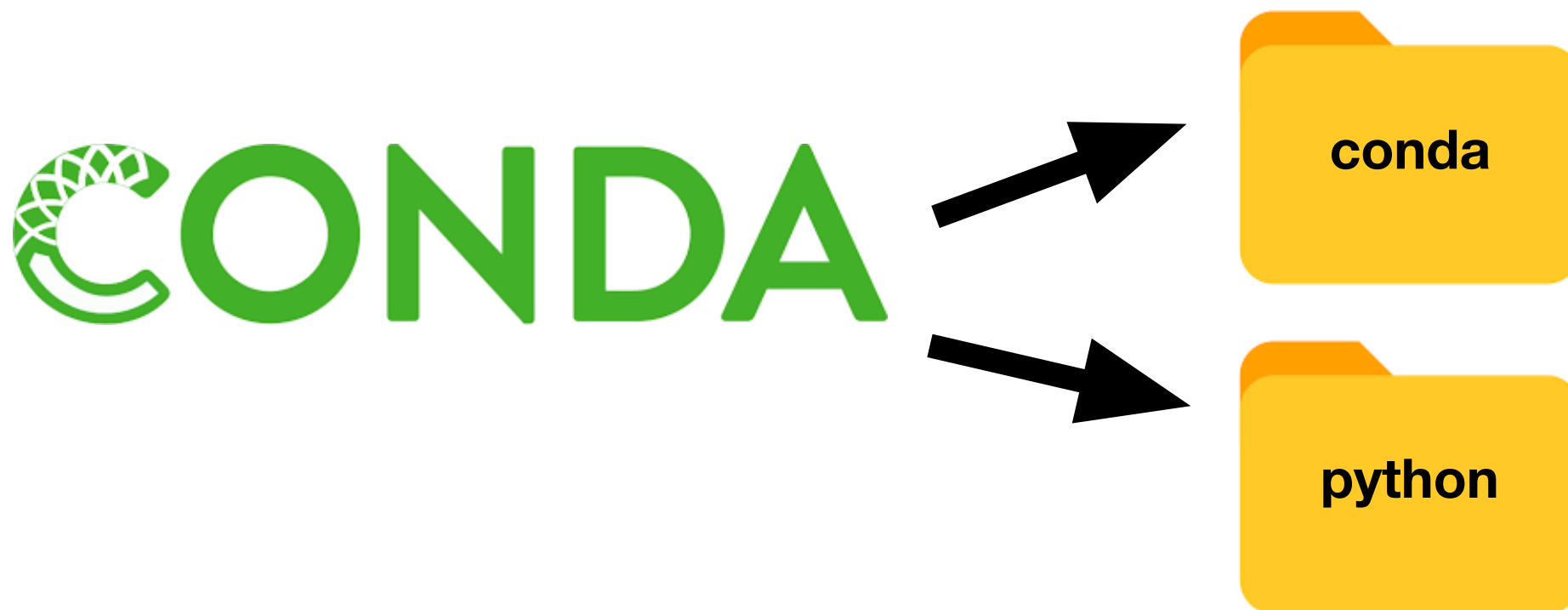


# Introduction to Python for Scientific Programming

# Step 1: Installing Python tools on your machine

We are going to use a package manager called miniconda  
<https://conda.io/miniconda.html>

Go ahead and download the appropriate miniconda installer on to your machine



# Step 2: Install Jupyter Notebooks

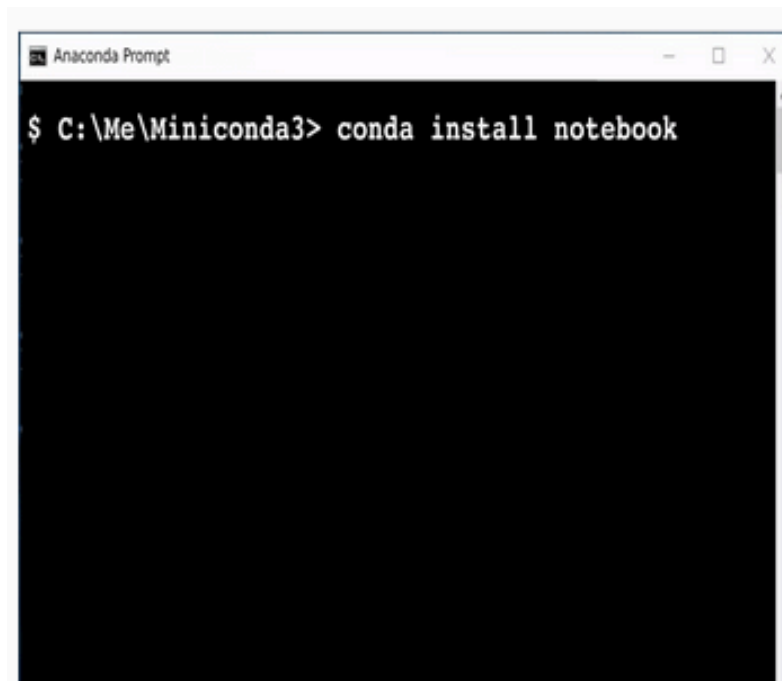
For this we are going to use the conda installation that we just performed

We will need to open up a command line interface (CLI) for this

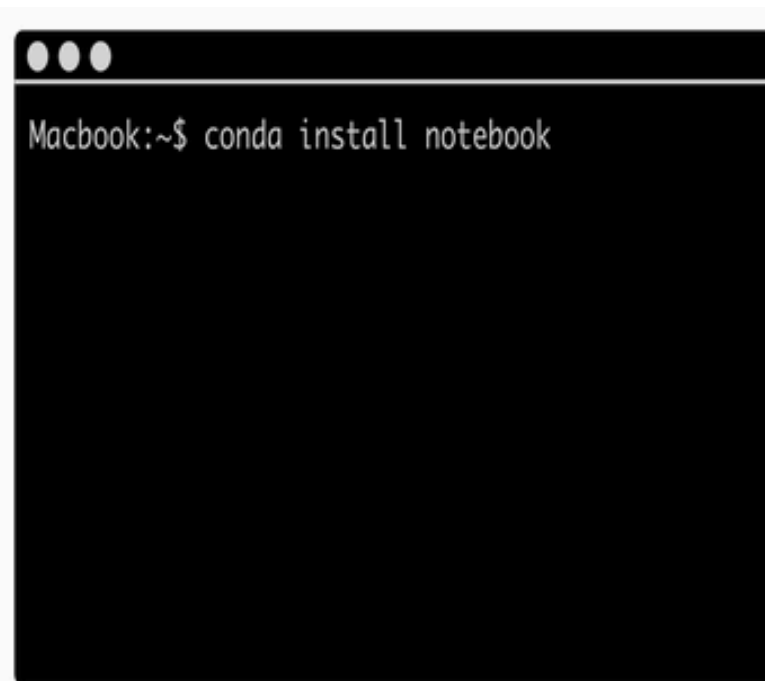
If you have a mac, open the Terminal app; If you have a windows box you will use the Anaconda prompt that was just installed by miniconda

```
conda install notebook
```

**Windows**



**Mac**



# Step 3: Install more libraries

Again we are going to use conda for this. We let the package manager do all the hard work for us and it will just give us the libraries that we need

The basic call is ``conda install some_package``

Here is the list of packages that we want for now:

- numpy
- scipy
- matplotlib

Go ahead and install all three of those using ``conda install`` now

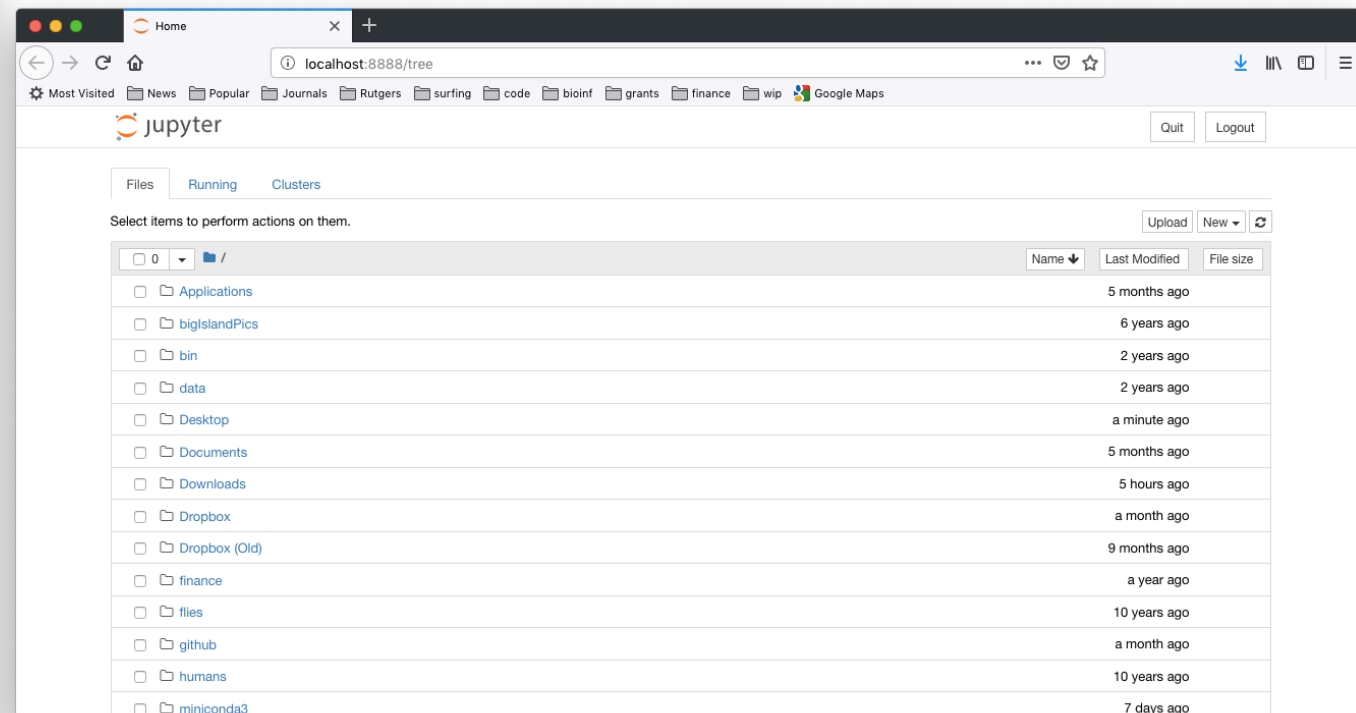
# Step 4: Start a Jupyter notebook

Working from the CLI still, type `jupyter notebook`

That will bring up a bit of text in your command like so, and a browser window should appear

```
chico:~ adk$ jupyter notebook
[I 14:47:57.612 NotebookApp] Serving notebooks from local directory: /Users/adk
[I 14:47:57.612 NotebookApp] The Jupyter Notebook is running at:
[I 14:47:57.612 NotebookApp] http://localhost:8888/?token=4bb9da28446d9bb24476681baf07d6e822e8a183bd7466da
[I 14:47:57.612 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 14:47:57.618 NotebookApp]

To access the notebook, open this file in a browser:
file:///Users/adk/Library/Jupyter/runtime/nbserver-29295-open.html
Or copy and paste one of these URLs:
http://localhost:8888/?token=4bb9da28446d9bb24476681baf07d6e822e8a183bd7466da
```



# Step 5: Pat yourself on the back

Python and the associated tools we need are installed. Nice.

Now let's get familiar with the jupyter notebook a bit

