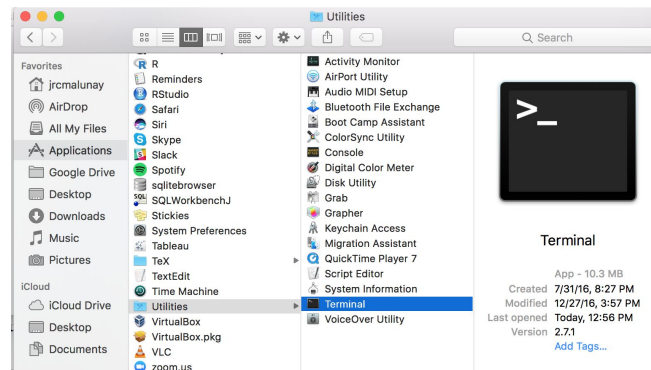# ECON628-01
<u>MAC USERS ONLY!</u>

Startup:

1. First open your **Terminal**

Terminal: is the application that allows you to navigate through your computer without using your mouse. You can open the Terminal by either:
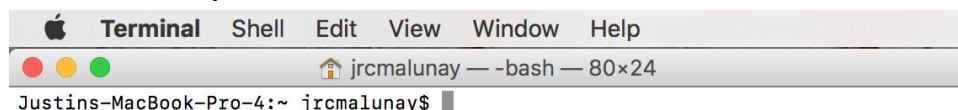
- opening Finder, then click Applications fromt the sidebar, then open Utilities, then open Terminal

- holding Command key then press the Spacebar on your computer, then you can simply type Terminal and press Return
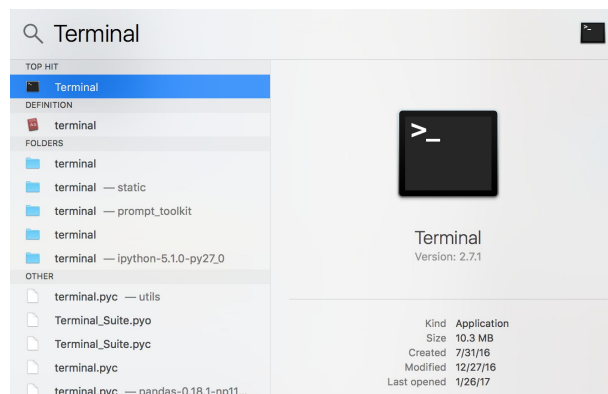
Once you open the terminal, your screen should now look similar to:

Part 1: Jupyter notebook & Anaconda:

From the "Required Tools For Class" document, you must have Anaconda already installed. If you have not done so, please complete this first: Required Tools For Class

To check if Anaconda is installed, type: **conda info** and Return in your *Terminal*. It should output something similar to:
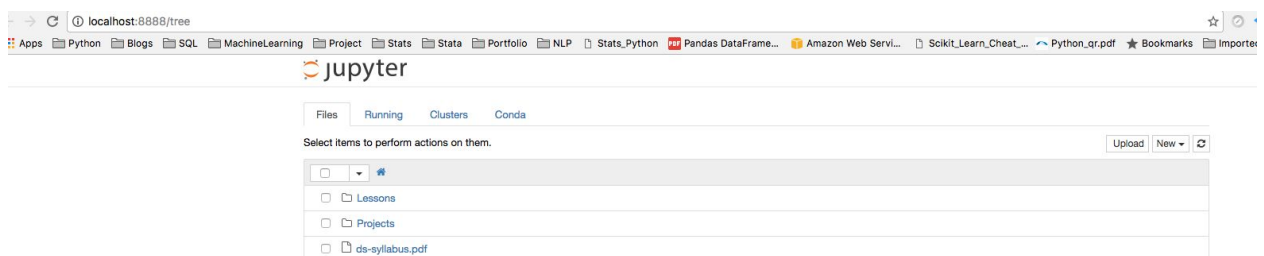

If you see this in Terminal, you are good to go. If not, you did **NOT** install Anaconda properly (if that is the case go back to the Required Tools For Class document.

1. Once the installation is done, in your terminal type: **jupyter notebook** and **press Enter** (see picture below)

2. You should eventually see a **new** tab open up in your browser for you to begin using Jupyter Notebooks.

   a. Don't worry if your tab says something like *"Conda [Root]"* or *"Python Default"*, either of these options will work fine. You can click on these to start a new python file.

3. Now we need to learn how to close the new tab on your browser. *Note the following lines were taken directly from the jupyter notebook beginner guide http://jupyter-notebook-beginner-guide.readthedocs.io/en/latest/execute.html#shut-down-the-jupyter-notebook-app:'*

   a. In a nutshell, closing the browser (or the tab) **will not close** the Jupyter Notebook App. To completely shut it down you need to **close the associated terminal**. In more detail,

the Jupyter Notebook App is a server that appears in your browser at a default address (*http://localhost:8888*). Closing the browser will not shut down the server.

4. Go back to the terminal/command prompt where you previously typed jupyter notebook and use the ***Control+C*** keys to close the notebook (both keys should be press at the same time => see image below)

```
[I 11:32:58.918 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
```

5. If you did this correctly the following question will appear in your terminal: **Shutdown this notebook server (y/[n])?** => then type **y** and press **enter** => your notebook is now closed (see image below):

```
^C[I 11:37:27.482 NotebookApp] interrupted
Serving notebooks from local directory: /Users/Javier/Desktop/DS-SF-31
0 active kernels
The Jupyter Notebook is running at: http://localhost:8888/
Shutdown this notebook server (y/[n])? y
```

6. For more information on the Jupyter Notebook system see the official documentation.

   a. Additional information on Jupyter Notebook Manual
   https://athena.brynmawr.edu/jupyter/hub/dblank/public/Jupyter%20Notebook%20Users%20Manual.ipynb

Part 2: Get familiar with Github

1. For information on Git please revise this links
   a. https://guides.github.com/activities/hello-world/
   b. https://help.github.com/articles/git-and-github-learning-resources/

Part 3: Create class directory

1. Now we are going to navigate through Terminal
   a. In the **Terminal** window type: **pwd** (remember that pwd = print working directory)
   b. type: **cd Desktop** (remember that cd = change directory, in this case we need to change the directory to your Desktop, and it is in here where we are going to allocate the **NEW** ECON628-01 folder)
   c. type: **git clone** https://github.com/majacaci00/ECON628-01.git
   d. type: **cd ECON628-01**
   e. type: **git pull** (a message saying "Already up-to-date" should appear in your screen)
   f. type: pwd (and make sure you are in your Desktop)

Part 4: Create your student repo

1. Access your github account by going github.com
2. On the top right corner of your github page, identify the **+** sign click on it and select create on *New repository* (see image)
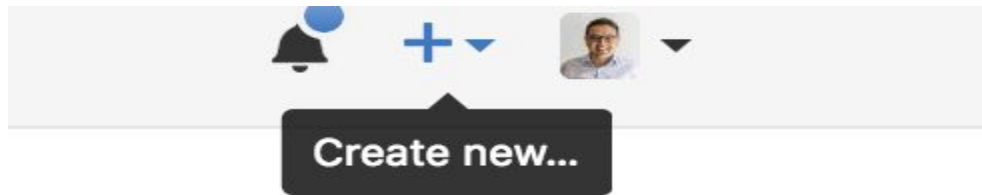
3. A new window will open. In this window go to *Repository Name* and type ECON628-01-*MAJACACI00* (**replace** *MAJACACI00* **with your github username**)
4. On the *description* section type: "This is my ECON628-01 student repo"
5. Scroll to the bottom and make sure that *Public* is selected
6. *Select* Initialize this repository with a README
7. Click on *Create repository* (see image below)

Part 5: cloning your repo to your computer

1. Open the Terminal
2. Move from your home directory to your Desktop by typing: **cd Desktop** and press return
3. If you type **pwd** and press return, it should say something similar to **/Users/yourname/Desktop**
4. Once you are in your desktop type: **git clone** https://github…………..(this is the url from your ECON628-01-githubusername=> you can find this link if you click on the green button "Clone or download" => see picture below)
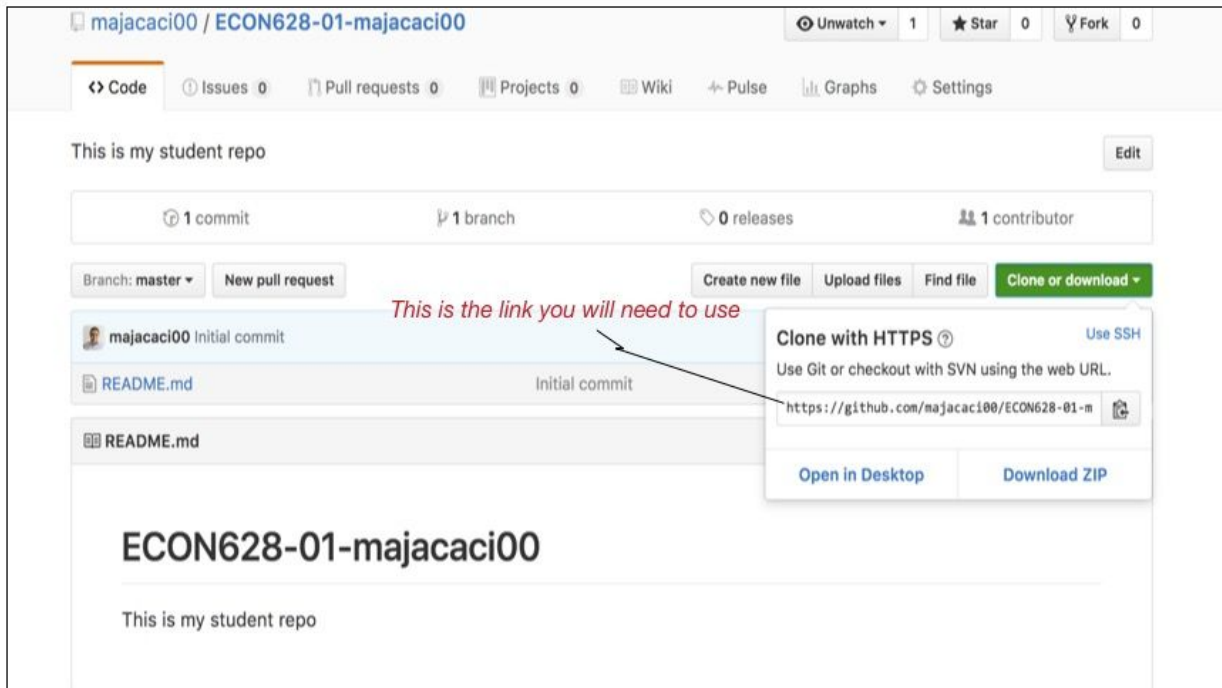
Part 6: pushing a document to your student repo

1. **MANUALLY** copy a **ANY** pdf document into your ECON628-01-*MAJACACI00* (remember that you in your case the *MAJACACI00* should be *your github username*)
2. **MANUALLY** rename your pdf document to **test**
3. Go back to your Terminal and ***make*** sure you are in the *ECON628-01-githubusername* folder.
4. type: **git add test.pdf**
5. type: **git status** (you should see your test.pdf under *Changes to be committed*: blablabla, also your file should appear *highlighted in green*
6. type: **git commit -m "testing my student repo"**
7. type: **git push origin master**
8. go to github.com (r*efresh the site*) and you should see your test.pdf document
9. SUCCESS!

Part 7: copying files from folder to folder

How to copy files from the *ECON628-01* folder to your *ECON628-01-githubusername* folder using the terminal or command prompt (**GET USE TO DO THIS, IS BEST PRACTICE AND YOU WILL BE DOING THIS FREQUENTLY**)

1. in your terminal/command prompt => navigate to your *ECON628-01-githubusername* folder
2. type: pwd   => and make sure your are in the *ECON628-01-githubusername*
3. once you are in the *ECON628-01-githubusername* => type: mkdir various
4. type : ls -l   => (you should *see* the various folder)
5. cd to your Desktop
6. type: pwd   => and make sure you are in your Desktop
7. type: mkdir /Users/YOURNAME/Desktop/ECON628-01/various
   /Users/YOURNAME/Desktop/ECON628-01-githubusername\various
   a. **Note**: the lines above are just *one* line. There is a *space* between *\various* and /Users

b. the command mkdir => copies the content from the various folder in ECON628-01 to *ECON628-01-githubusername*)
c. **Note**: <mark>YOURNAME</mark> => refers to your mac user name
d. **Note:** This is the process of copying files and folders from your local repository (ECON628-01) to your local student repository (*ECON628-01-githubusername*)
e. You can make sure you have copied the files to your local student repository (*ECON628-01-githubusername*) by ***manually*** opening "Finder => Desktop => *ECON628-01-githubusername*)

Part 8: Opening jupyter notebook

1. Open your Command Prompt
2. cd to your Desktop
3. type: jupyter notebook