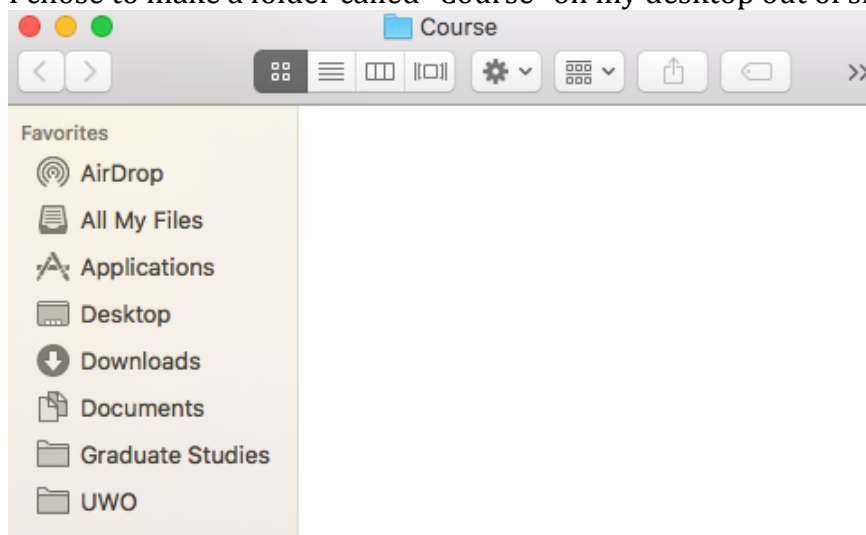
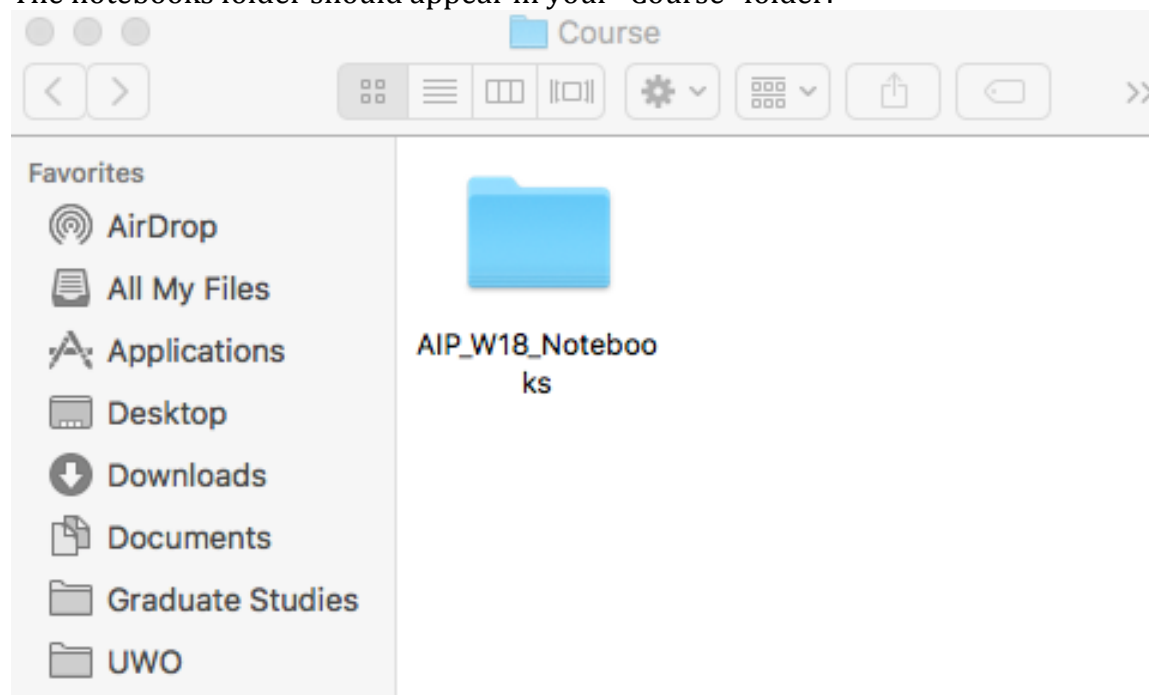


Using Jupyter “notebooks” with your Mac (from scratch):

1. Create a directory where you want to house this course material (make sure it’s empty!)
 - a. I chose to make a folder called “Course” on my desktop out of simplicity



2. Within the terminal, direct yourself to this folder
3. “Clone” the course repository from GitHub (see Day 1 for more info on this)
The notebooks folder should appear in your “Course” folder:

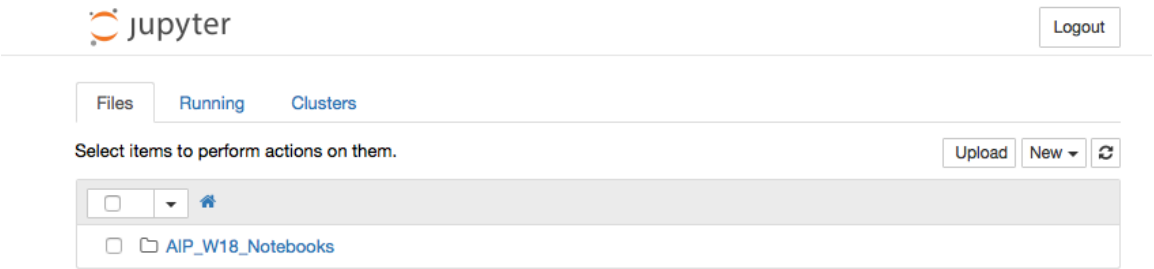


4. Next, activate the “simple ITK python” environment
5. Once you’re in the environment (will have (sitkpy) before prompt), type ‘jupyter notebook’ (no quotes) to open the browser

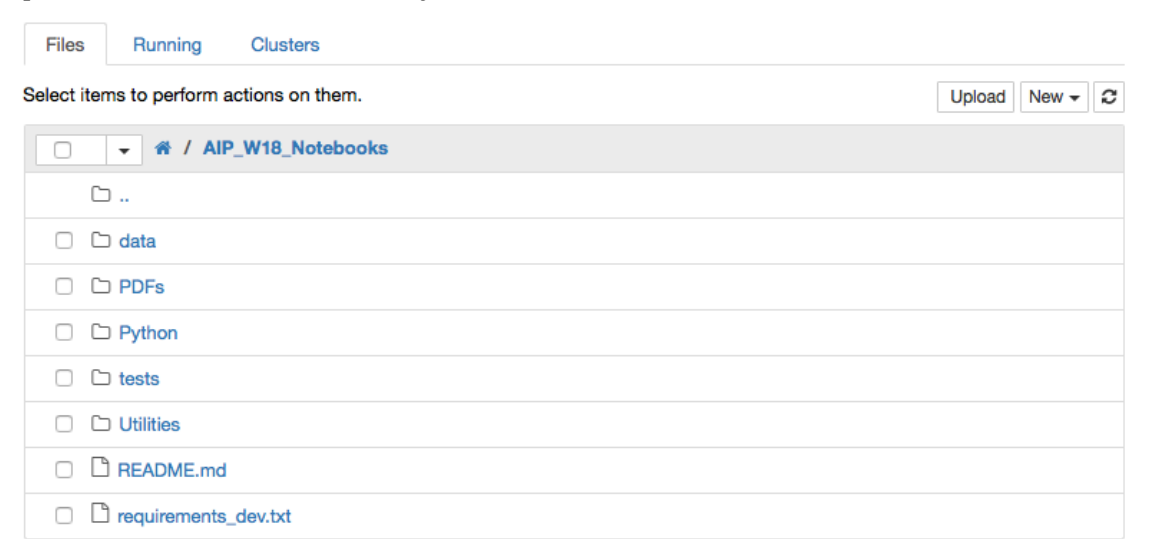
See commands on screenshot below:

```
Course — jupyter-notebook › python — 80x24
Last login: Mon Jan 15 18:02:52 on ttys000
Madeleines-MacBook-Pro:~ madeleine$ cd ~/Desktop/Course
Madeleines-MacBook-Pro:Course madeleine$ git clone https://github.com/chene77/AIP_W18_Notebooks.git
Cloning into 'AIP_W18_Notebooks'...
remote: Counting objects: 121, done.
remote: Compressing objects: 100% (93/93), done.
remote: Total 121 (delta 40), reused 99 (delta 20), pack-reused 0
Receiving objects: 100% (121/121), 8.37 MiB | 3.73 MiB/s, done.
Resolving deltas: 100% (40/40), done.
Madeleines-MacBook-Pro:Course madeleine$ source activate sitkpy
[(sitkpy) Madeleines-MacBook-Pro:Course madeleine$ jupyter notebook
```

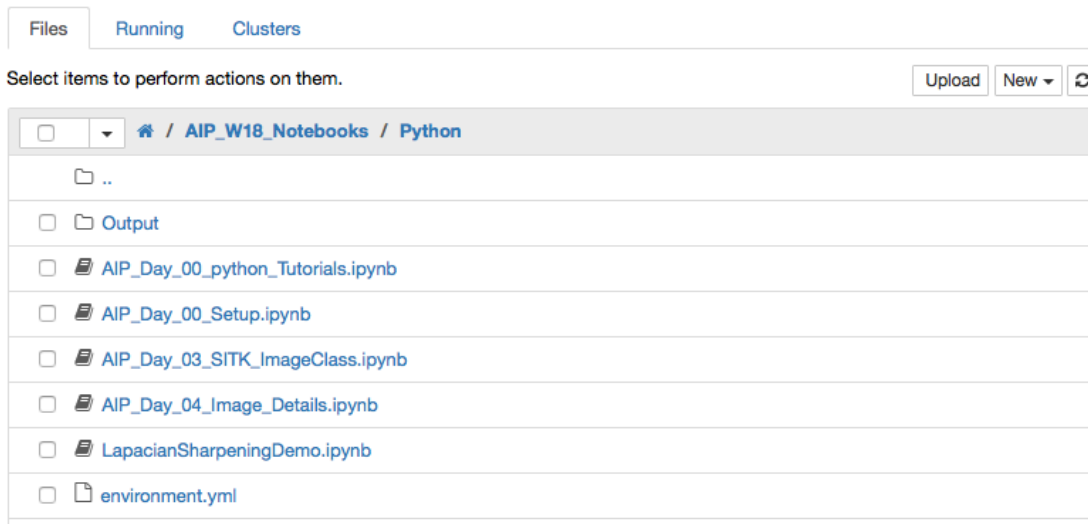
Okay, now a browser window will open:



Open the folder and click on “Python”



Let's select Day 3

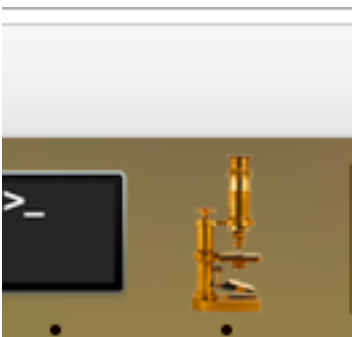


Execute the cells. For example, I have executed cells 1 and 2; under cell 2 it tells me that it's fetching the image

```
In [2]: # In this command, we are executing 3 different commands in a single line of python code
#
# fetch_data is a script that will download a file of a given name, and result it as an output
#
# ReadImage converts it into an internal SimpleITK image format
#
# as we've seen in the previous tutorial, Show will launch an external program (in our case, ImageJ)
sitk.Show(sitk.ReadImage(fetch_data("cthead1.png"))) # image of head in CT

Fetching cthead1.png
Downloaded 29351 of 29351 bytes (100.00%)
```

This will also launch your external viewer (ImageJ)



After a few seconds the image will appear within the ImageJ environment:

