

### Step 3: Fetching a problem set

Before you can begin working on a problem set, you must download it to your Notebook server. To do this, click on the tab labeled *Assignments* on the server control panel. You should be directed to a page that looks like this:



The screenshot shows the Jupyter server interface with the 'Assignments' tab selected. The page title is 'Released, downloaded, and submitted assignments.' Below this, there are three sections: 'Released assignments', 'Downloaded assignments', and 'Submitted assignments'. The 'Released assignments' section contains a table with one row: 'ps0' in the first column and 'cogsci131' in the second column. A blue 'Fetch' button is located to the right of the 'ps0' entry. The 'Downloaded assignments' and 'Submitted assignments' sections both display the message 'There are no downloaded assignments.' and 'There are no submitted assignments.' respectively.

Released assignments	
ps0	cogsci131

Downloaded assignments

There are no downloaded assignments.

Submitted assignments

There are no submitted assignments.

Figure 6: IPython Notebook server, Assignments tab, ps0 not downloaded

The “Released assignments” table lists the problem sets available for you to download. In the current example, there is only one: ps0. To download this to your Notebook server, simply click the blue “Fetch” button to the right of its listing. Once the problem set has downloaded, it should appear in the “Downloaded assignments” table:



The screenshot shows the Jupyter server interface with the 'Assignments' tab selected. The page title is 'Released, downloaded, and submitted assignments.' Below this, there are three sections: 'Released assignments', 'Downloaded assignments', and 'Submitted assignments'. The 'Released assignments' section now displays the message 'There are no assignments to fetch.' The 'Downloaded assignments' section contains a table with one row: 'ps0' in the first column and 'cogsci131' in the second column. A blue 'Submit' button is located to the right of the 'ps0' entry. The 'Submitted assignments' section displays the message 'There are no submitted assignments.'

Released assignments	
There are no assignments to fetch.	

Downloaded assignments	
ps0	cogsci131

Submitted assignments

There are no submitted assignments.

Figure 7: IPython Notebook server, Assignments tab, ps0 downloaded

## Step 4: Opening a notebook

Once you have downloaded `ps0` to your server, navigate back to the *Files* tab. You should now see something that looks like this (you may first need to refresh the notebook list by clicking the refresh button in the upper right corner of the main table):

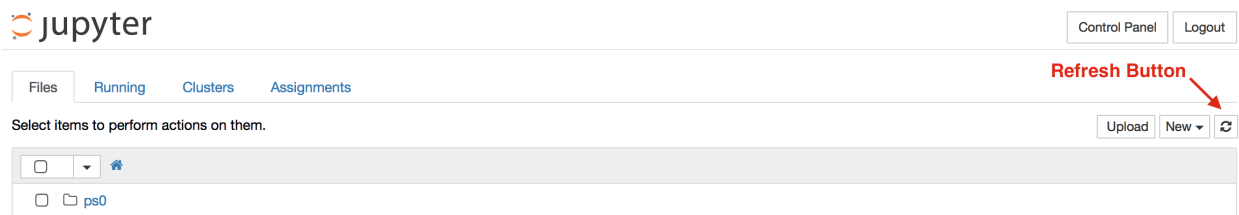


Figure 8: IPython Notebook server, Files tab, `ps0` downloaded

From this page, if you click the `ps0` directory and select, `1 - Introduction to the IPython Notebook.ipynb` (notebooks always end with the `.ipynb` extension), the notebook will open in a new tab in your browser:

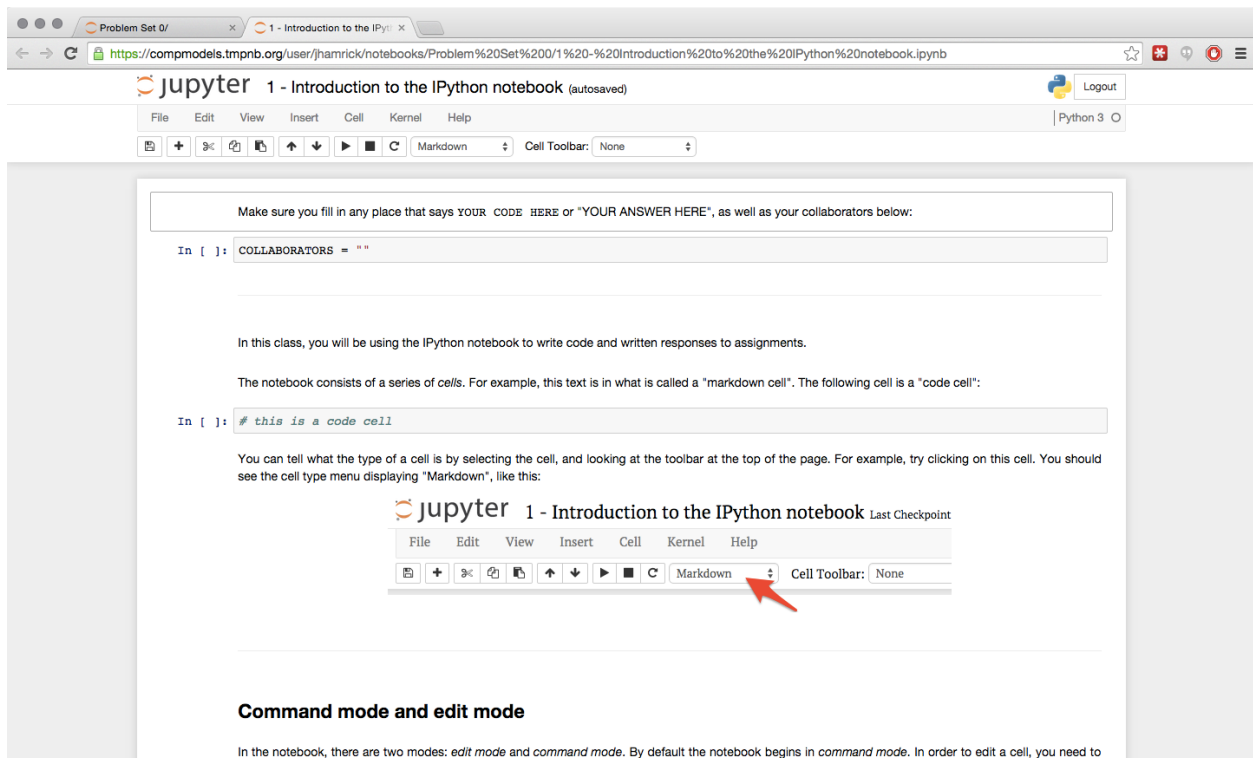


Figure 9: IPython Notebook server, Files tab, `ps0/1 - Introduction to the IPython Notebook.ipynb`

From here, you should follow the instructions in the notebook, which will walk you through how to use the IPython Notebook interface. The other notebooks will cover other tools we'll be using in this class, including Markdown, LaTeX, NumPy, and Matplotlib.

**Important:** Be sure to read the material in `0 - Index.ipynb`, which details course policies on academic misconduct, collaboration, late days, problem set submissions, and other course FAQs.

## Step 5: Validating a completed problem set

After you have completed all of the notebooks in a problem set, you will need to submit them to be graded. To do this, navigate back to the *Assignments* tab on your IPython Notebook server. If you click on the blue triangle next to the `ps0` entry in the “Downloaded assignments” table, you should see a list of all the notebooks associated with the problem set:

The screenshot shows the Jupyter web interface. At the top, there's a Jupyter logo and a 'Control Panel' / 'Logout' button. Below is a navigation bar with 'Files', 'Running', 'Clusters', and 'Assignments' tabs. The 'Assignments' tab is active. Below the tabs, it says 'Released, downloaded, and submitted assignments.' with a refresh icon. There are two sections: 'Released assignments' which says 'There are no assignments to fetch.', and 'Downloaded assignments'. The 'Downloaded assignments' section contains a table with the following data:

ps0 ▾	cogsci131	Submit
0 - Index		Validate
1 - Introduction to the IPython notebook		Validate
2 - Markdown and LaTeX Cheatsheet		Validate
3 - Introduction to NumPy		Validate
4 - Manipulating and Plotting Data		Validate
5 - Advanced NumPy		Validate
6 - Truth Tables		Validate
7 - Debugging		Validate

Figure 10: Assignments Tab, validation view

Before submitting, you should *always* verify that each notebook passes all of the required unit tests. To do this, simply click the “validate” button next to each notebook. If your code passes, you should receive a message notifying you as such. If your code does not pass, you should receive a message showing you the unit test on which it failed and the associated error message.

Note that code that does not pass the unit tests will not receive full credit!

## Step 6: Submitting a completed problem set

Once you have verified that your notebooks pass all of the required tests, you can go ahead and click the blue “Submit” button next to the `ps0` entry. Once you have submitted an assignment, it will appear in the “Submitted assignments” table:



The image shows the Jupyter web interface. At the top left is the Jupyter logo. At the top right are buttons for "Control Panel" and "Logout". Below the logo is a navigation bar with tabs for "Files", "Running", "Clusters", and "Assignments". The "Assignments" tab is selected. Below the navigation bar, a message says "Released, downloaded, and submitted assignments." with a refresh icon. There are three sections: "Released assignments" with the message "There are no assignments to fetch.", "Downloaded assignments" with a table containing one entry "ps0" for "cogsci131" and a "Submit" button, and "Submitted assignments" with a table containing one entry "ps0" for "cogsci131" submitted on "2015-08-26 20:03:58 UTC".

Released assignments		
There are no assignments to fetch.		

Downloaded assignments		
ps0 ▶	cogsci131	Submit

Submitted assignments		
ps0	cogsci131	2015-08-26 20:03:58 UTC

Figure 11: Assignments Tab, submitted `ps0`

Note that you may make multiple submissions of the same assignment before the deadline – only your most recent submission will be graded. If you make any changes to your submission *after* the due date, we will regard your **entire** problem set as having been turned in at the last time it was changed.