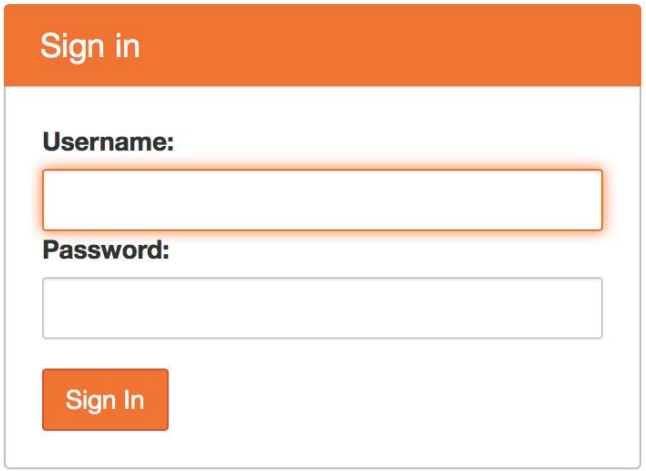
Fairfield University
DOLAN
School of Business

Getting started with JupyterHub

September 3, 2019

Sign in JupyterHub

URL: https://ba-lab.fairfield.edu/hub/login

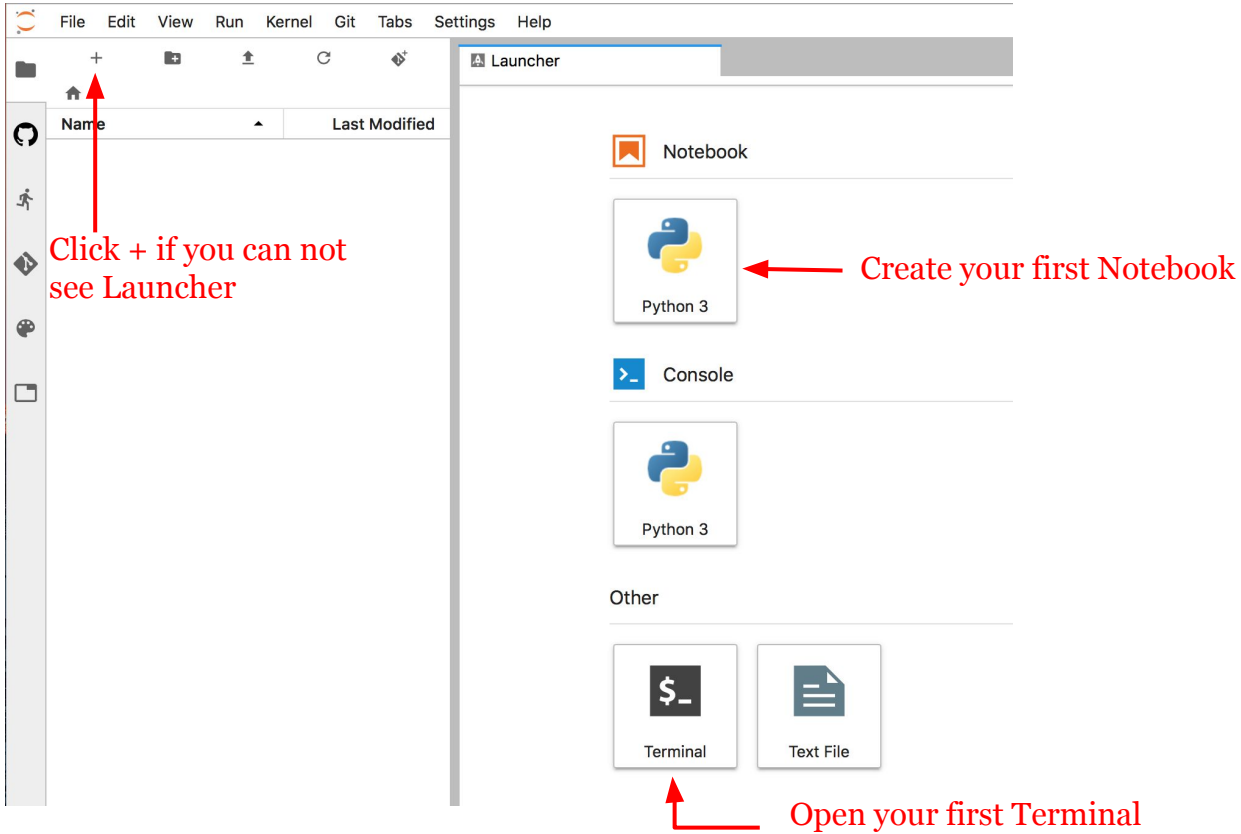


Username: The first letter of your first name and your last name.

For example: My name is Yue Pu. My username is ypu.

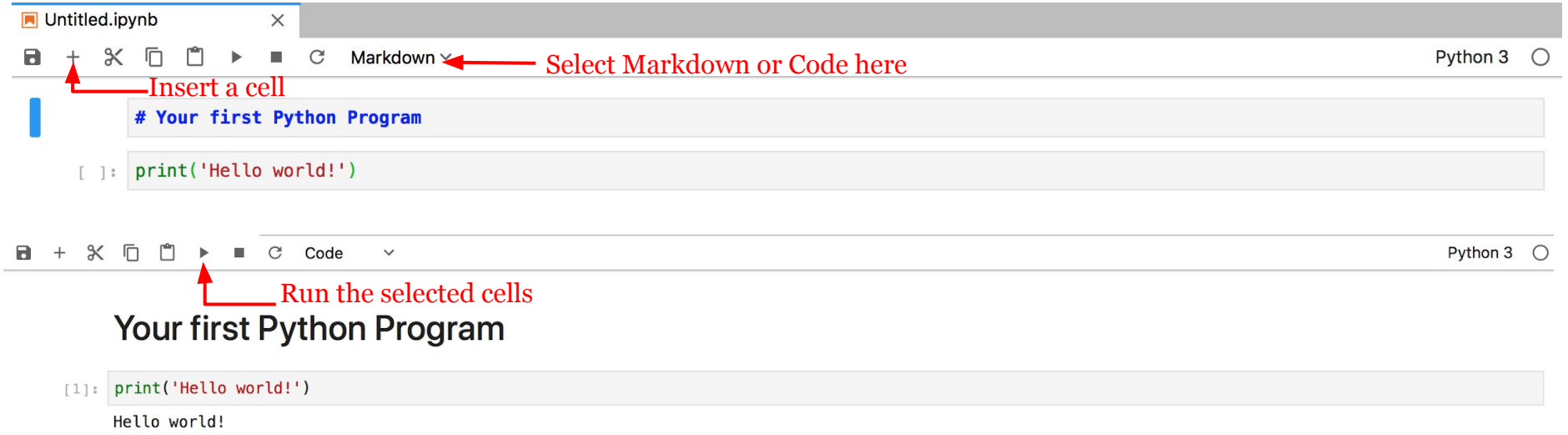
Password: Create your password when you first log in.

After you sign in, you will see a JupyterLab interface.

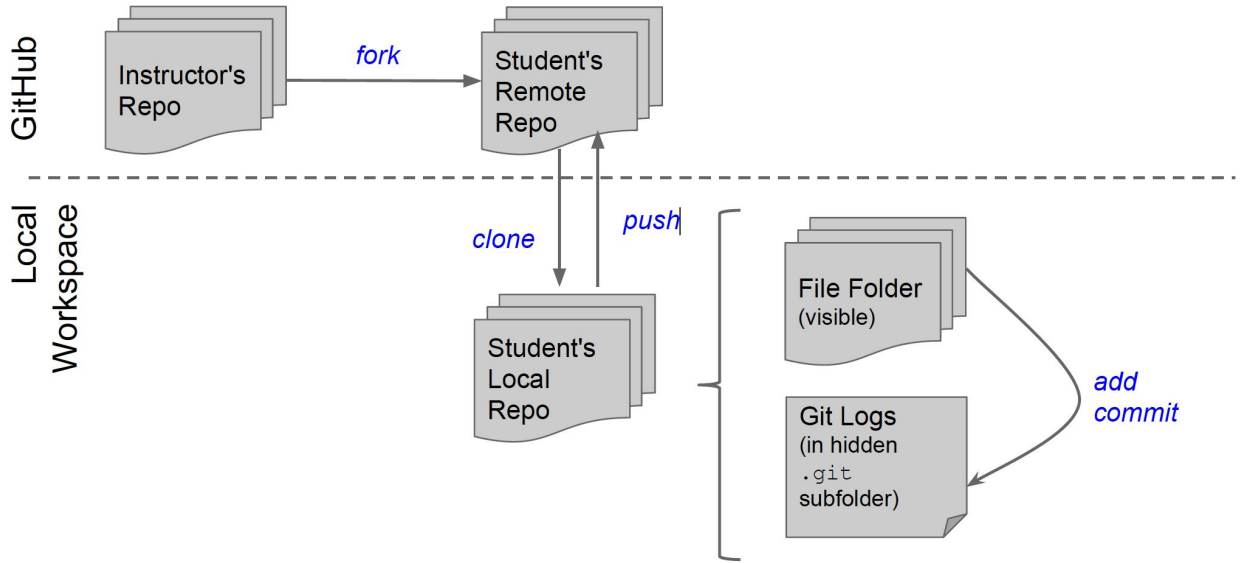


Create your first Notebook in JupyterLab

1. Select Markdown from the cell type selector
2. Enter `# Your first Python Program` into the first cell
3. Press the + button to insert a new cell
4. Select Code from the cell type selector
5. Enter `print('Hello world!')` into the second line
6. Click ▸ to run each cell
7. Do not forget to save if you want to keep the Notebook



How can we connect with JupyterHub and GitHub?



JupyterHub is your local workspace.

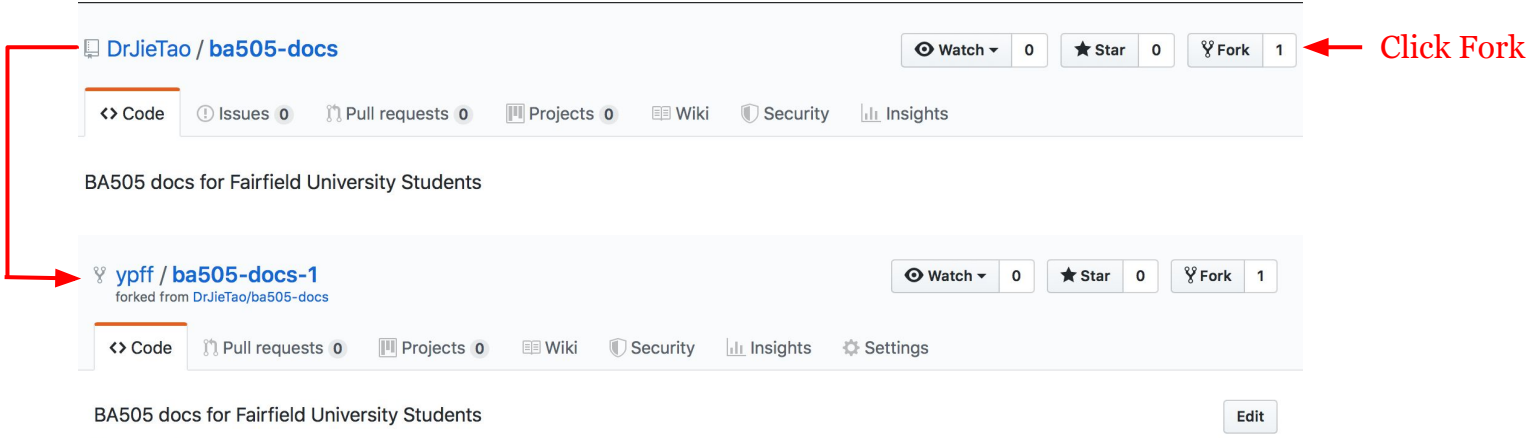
Fork repository in GitHub

1. Sign up for GitHub

2. Open ba505-docs repository: https://github.com/DrJieTao/ba505-docs

3. Fork to your GitHub account

- A fork is a personal copy of a repository with you as the owner (so you can modify things). You do not have permission to edit the original repository.
- Click Fork and create a forked copy of the repository to your GitHub account.

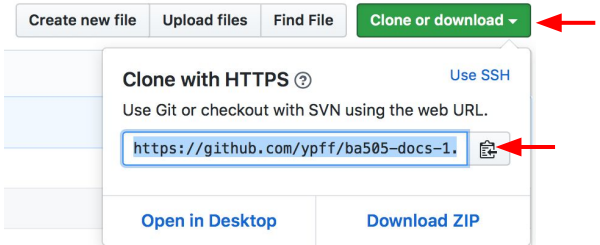


Click Fork

Clone repository from your GitHub to JupyterLab

1. The fork needs to be cloned to JupyterLab in order for you to work on it

2. On GitHub, copy a clone URL for your forked repository

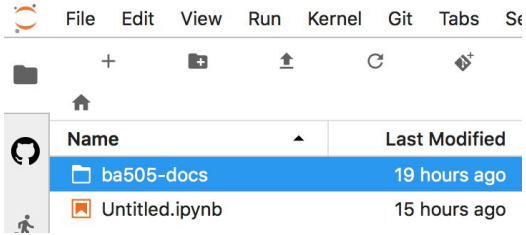


3. In JupyterLab, open a new Terminal, then type and paste

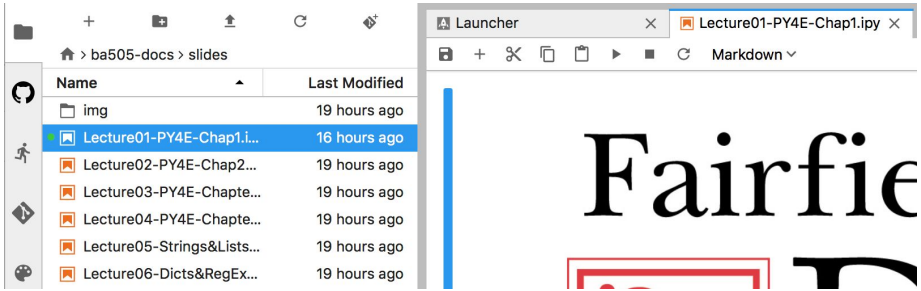
```
git clone <your clone URL>
```

Open repository in JupyterLab

1. You will see the **ba505-docs** folder in JupyterLab after git clone



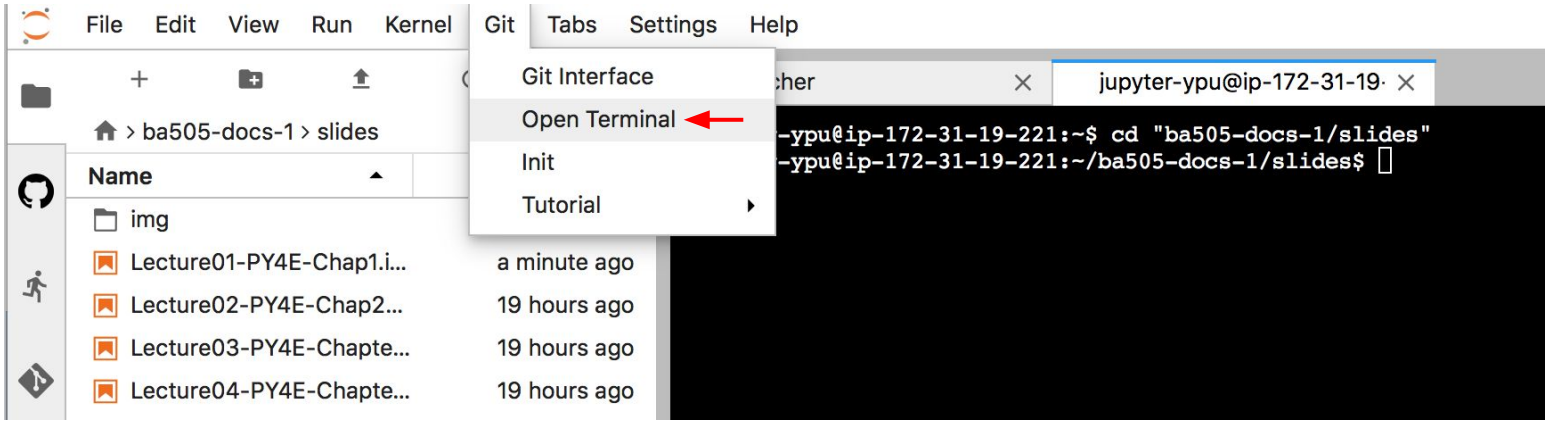
2. Open **Lecture01-PY4E-Chap1.ipynb** in **slides** folder, you can make some notes in the file



3. When you finish your work, please save them. Also, you need to push all your work to GitHub.

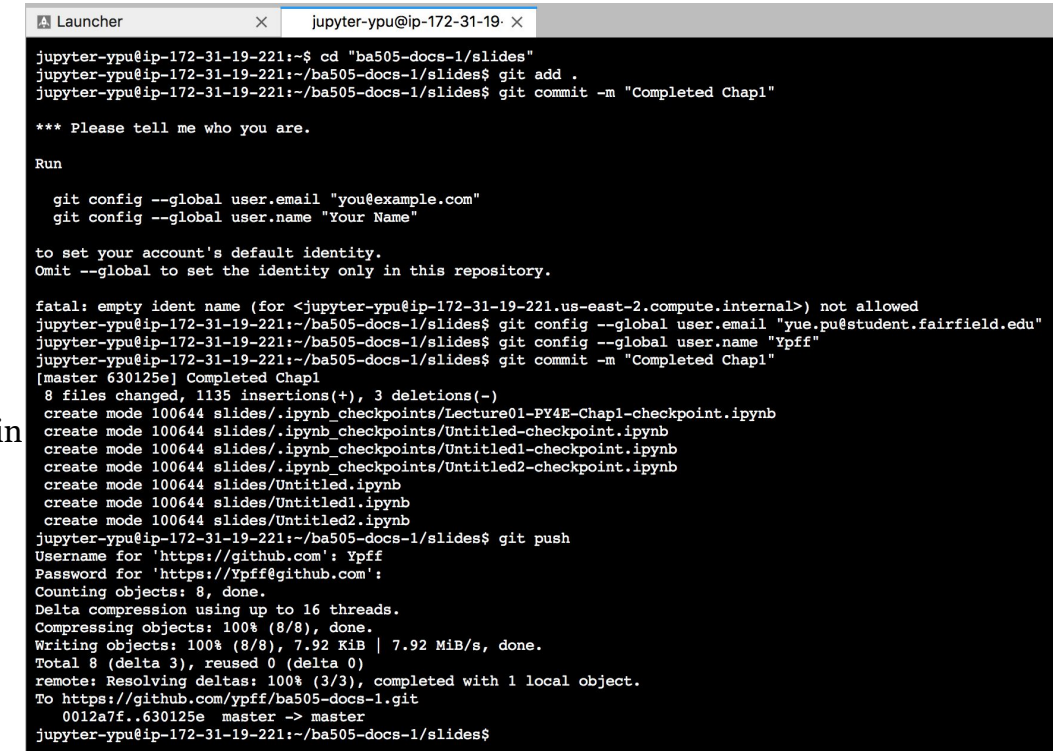
Get a new Terminal within your repository directory

1. Make sure you are in your repository folder in JupyterLab
2. From the Git menu select “Open Terminal” to get a new Terminal within your repository directory



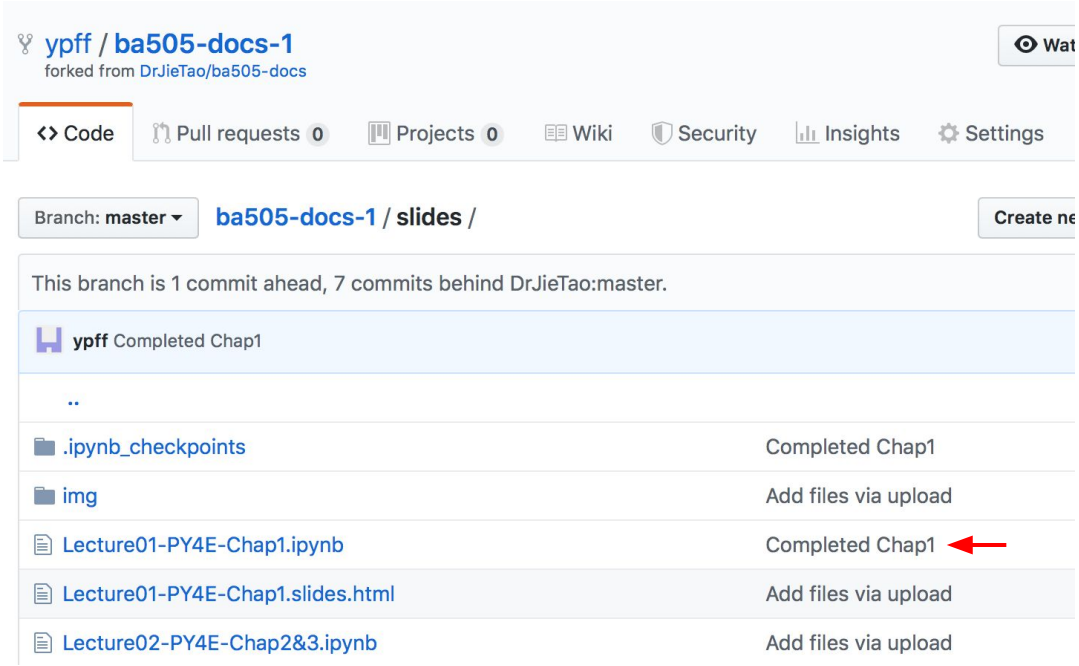
Add, commit and push your repository changes to GitHub

1. Save your changes before you commit
2. Add all current changes
   Type `git add .`
3. Type `git commit -m "Completed Chap1"`
   The -m followed by a commit message
4. Type who you are when you first commit
   `git config --global user.email “your GitHub account email”`
   `git config --global user.name “your GitHub username”`
5. After you tell who you are you need commit again
   `git commit -m "Completed Chap1"`
6. Push your changes to GitHub repository
   Type `git push`
   Type your GitHub username
   Type your GitHub password



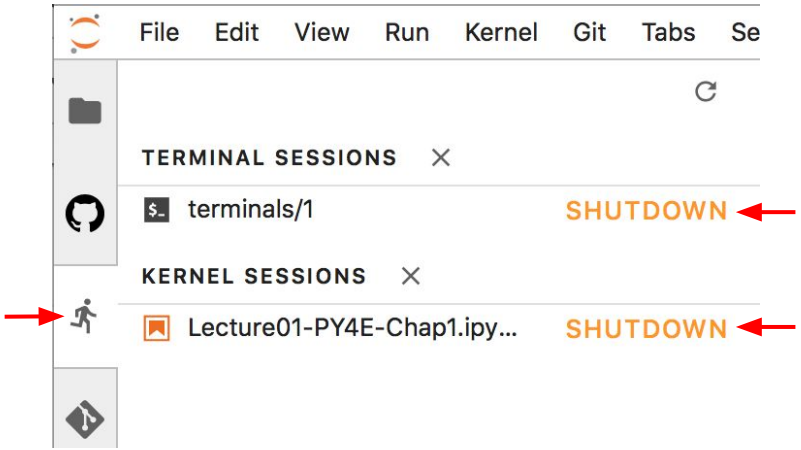
Check your changes pushed to GitHub successfully

The message “Completed Chap1” should appear next to `Lecture01-PY4E-Chap1.ipynb` file in your GitHub repository. If you open the notebook it should have your changes.

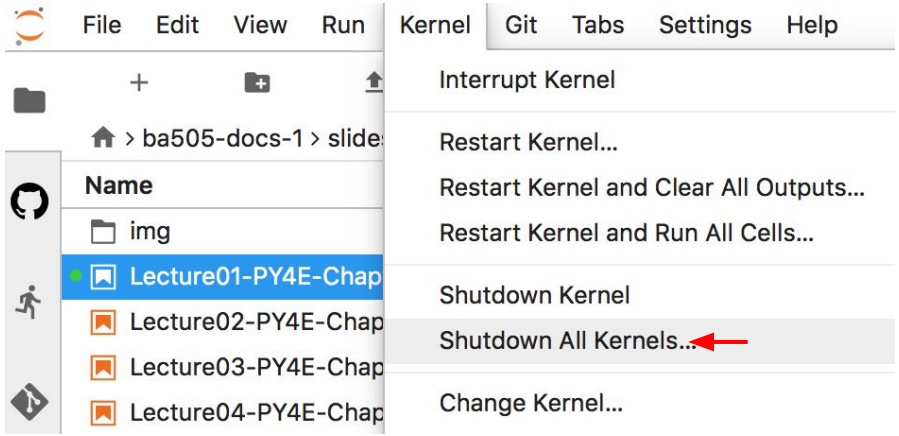


Shutdown running processes in JupyterLab

You need to **Shutdown** all running processes every time when you finish your work. It will help you save your memory for your next class.



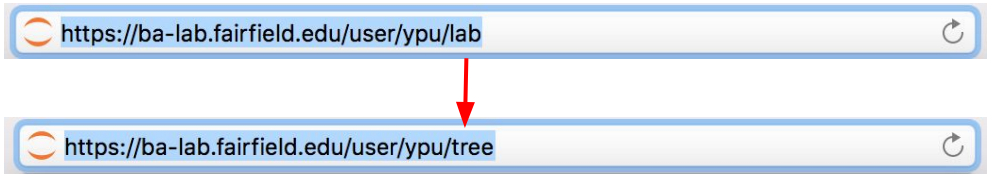
OR



Logout JupyterHub

1. Logout is only available in classic notebook interface.

   How to change from JupyterLab interface to classic notebook interface?
   Please change your URL in your browser from lab to tree.



2. Logout

Thank you!

If you have any questions, please email to yue.pu@fairfield.edu