

**Griffin Hurt**

Undergraduate Teaching Fellow

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Spring 2024, Term 2244  
Friday 11 AM Lab  
Jan 26<sup>th</sup>, 2024

Slides adapted from  
Shinwoo Kim, Martha Dixon, and  
Vinicius Petrucci

Department of Computer Science  
School of Computing & Information  
University of Pittsburgh

**Lab 2: Python Part 1**

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- **Using JupyterHub**
- **Values and Types**
- **Variables**
- **Operators**
- **User Input**
- **Changing Data Types**
- **Exception Handling**
- **Control Flow**

# Updated TA Office Hours

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Day	Time/Location
Monday	1:00PM – 2:30PM @ 130 N Bellefield, 5th Floor or Zoom
Tuesday	11:00 AM - 2:00 PM @ 130 N Bellefield, 5th Floor or Zoom
Thursday	4:00 PM – 5:30 PM @ Zoom only
By appointment	Message me to schedule a meeting (in-person/virtual)

- **Teaching materials (slides/helpful links) are on my website:**
  - <https://griffinhurt.com/teaching/>

# Getting JupyterHub

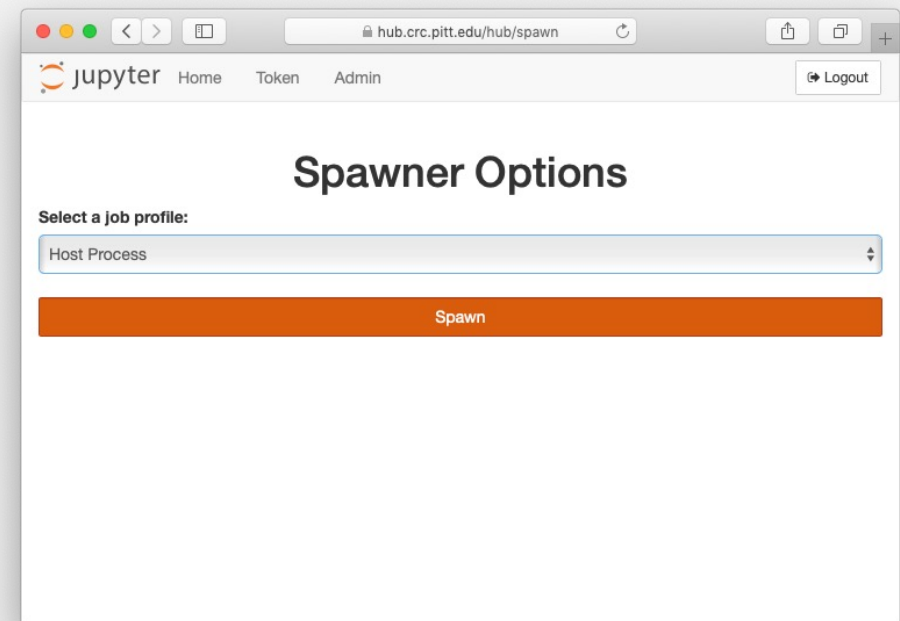
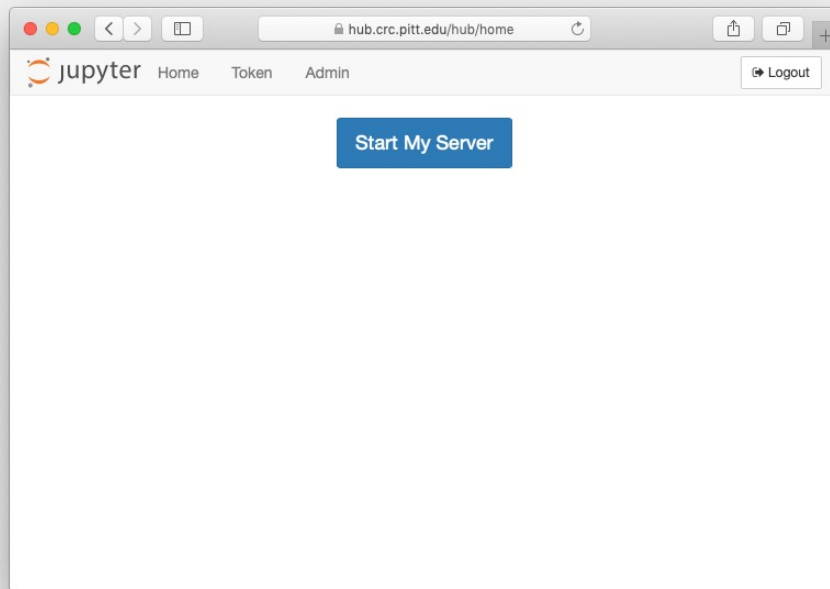
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- **How to log into JupyterHub (it's working this week!)**

- ~~If you are not on Pitt wifi, connect to the VPN. If you need help, instructions are [here](#)~~
  - ~~Alternatively, you can connect virtually to one of Pitt's machines using these [instructions](#)~~
- Go to <https://jupyterhub.sci.pitt.edu>.
- Log in with your Pitt credentials
  - Note: don't include @pitt.edu, and your username needs to be **all lowercase** (e.g. abc12 is good, but ABC12 and [abc12@pitt.edu](#) are **not**)
- ~~Verify yourself with Two Factor Authentication~~
- Click "Start my Server"
- Select Host Process from the dropdown (should be default), then hit Spawn
- That's it, you're in

# Getting JupyterHub (continued)

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# Getting the Lab

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- **Navigate to the Lab Repository (posted on Canvas)**

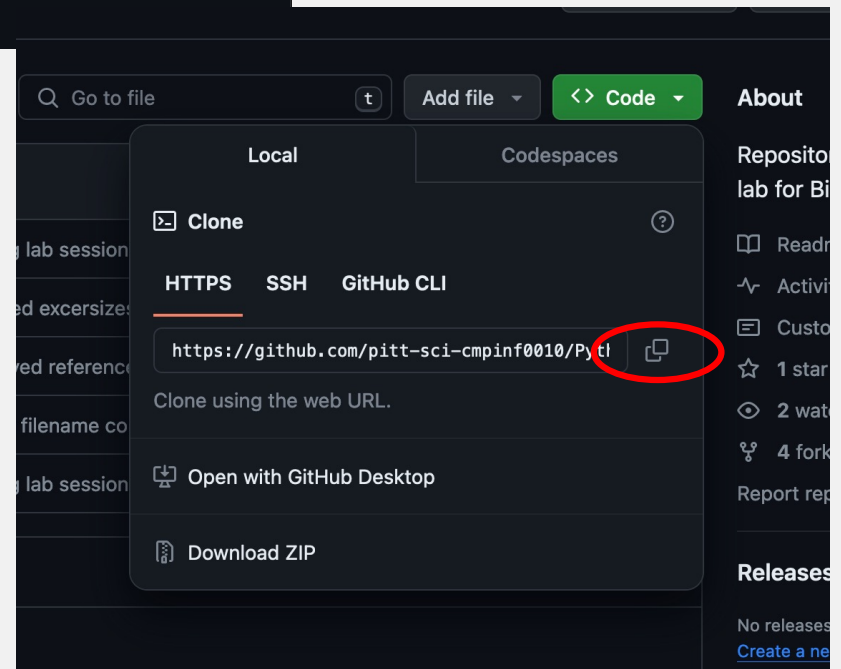
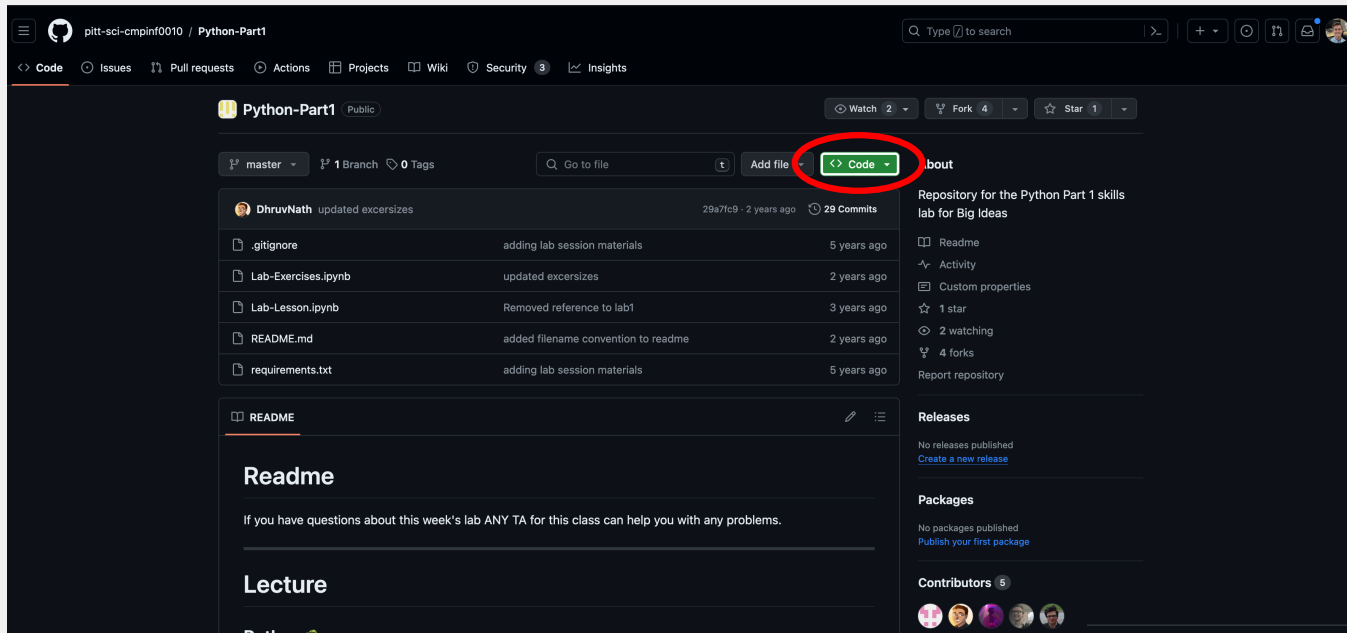
## Weekly Schedule

The table, below, provide a week-by-week overview of how the lecture, lab, and project components of this course will unfold. Please note that this schedule is subject to change, so please keep on top of course announcements!

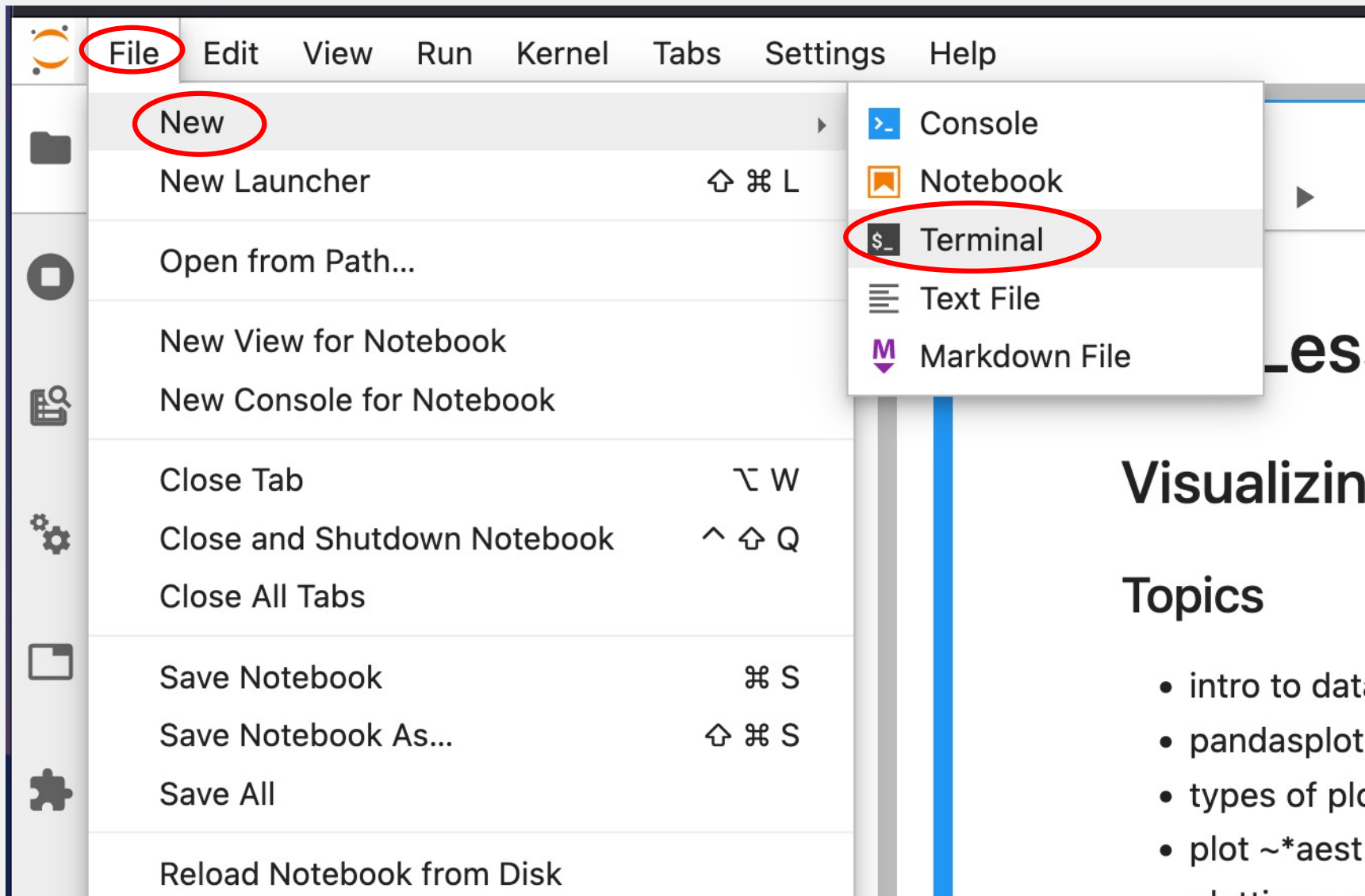
Week	Lec.	Date	Lecture	Skills Lab
1	1	1/9	Course introduction, Computing and Information at SCI [ <a href="#">Slides ↓</a> ]	NO LAB FIRST WEEK
	2	1/11	<b>Synthesis Activity:</b> <a href="#">Introductions</a>	
2	3	1/16	What is Information? [ <a href="#">Slides ↓</a> ] [ <a href="#">Readings</a> ]	<a href="#">Introduction to Jupyter</a>
	4	1/18	What is Computing? [ <a href="#">Slides ↓</a> ] [ <a href="#">Readings</a> ]	

- **Click the “Python Part 1” link, then “Python Part 1”**

# Getting the Lab (cont.)

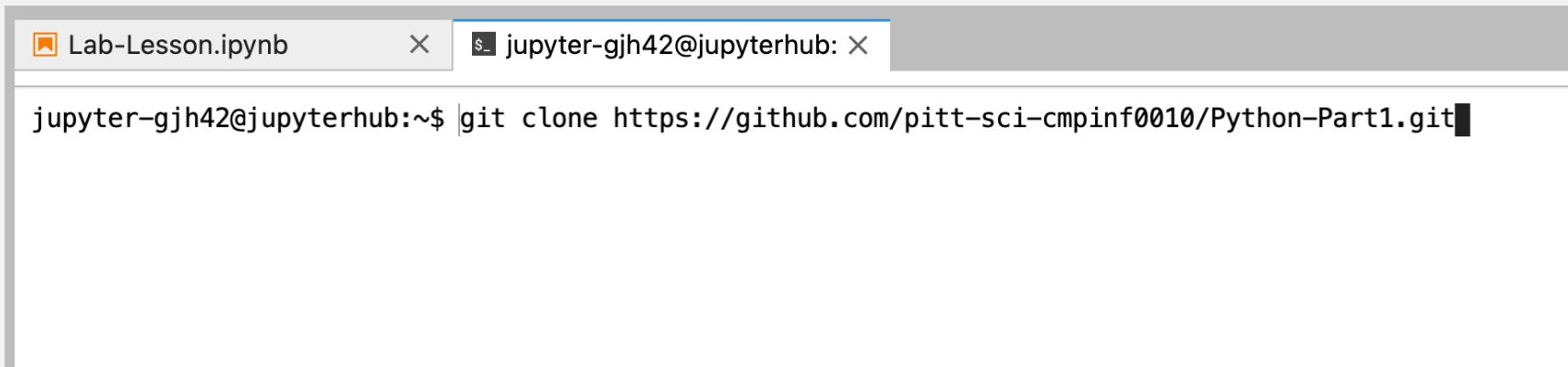


# Getting the Lab (cont.)



## Getting the Lab (cont.)

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A terminal window with two tabs. The first tab is titled 'Lab-Lesson.ipynb' and the second is 'jupyter-gjh42@jupyterhub: X'. The terminal content shows the command 'git clone https://github.com/pitt-sci-cmpinf0010/Python-Part1.git' being entered at the prompt 'jupyter-gjh42@jupyterhub:~\$'.

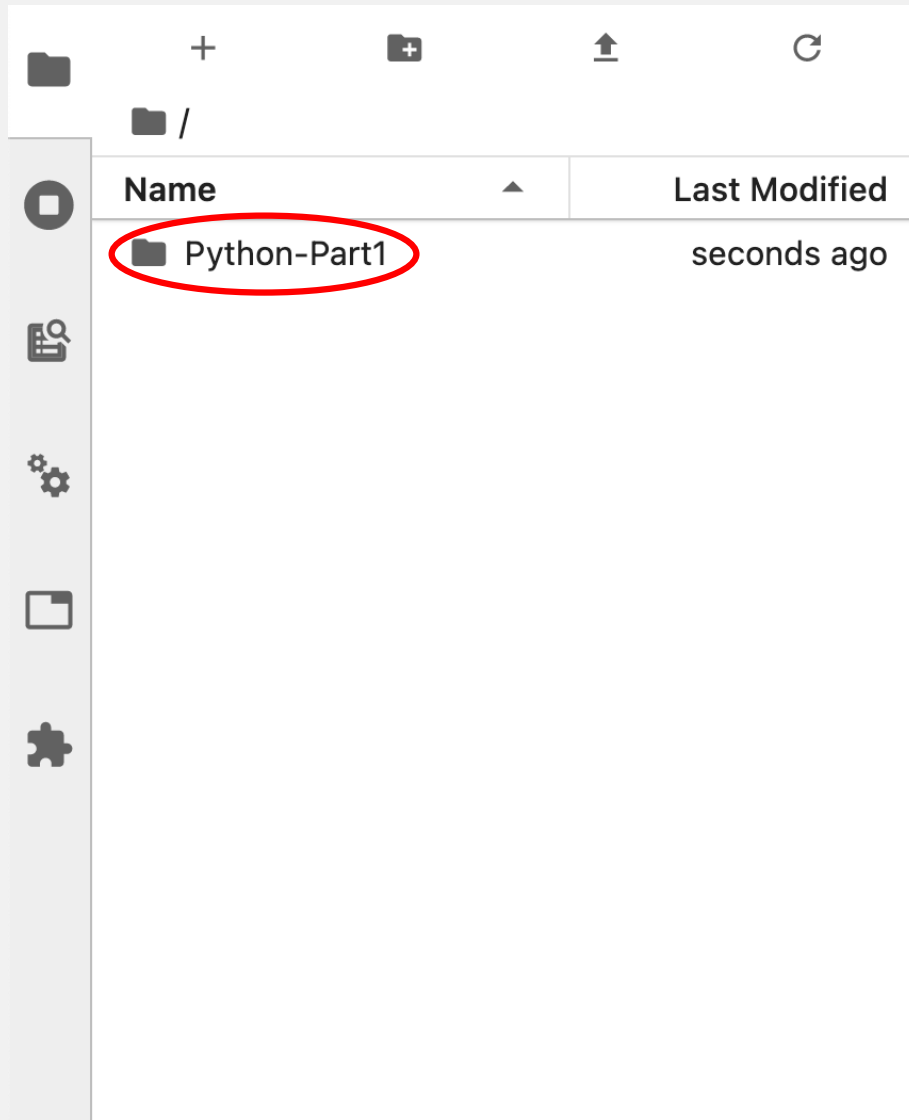
```
jupyter-gjh42@jupyterhub:~$ git clone https://github.com/pitt-sci-cmpinf0010/Python-Part1.git
```

- `git clone <paste link here>`
- **Press enter**



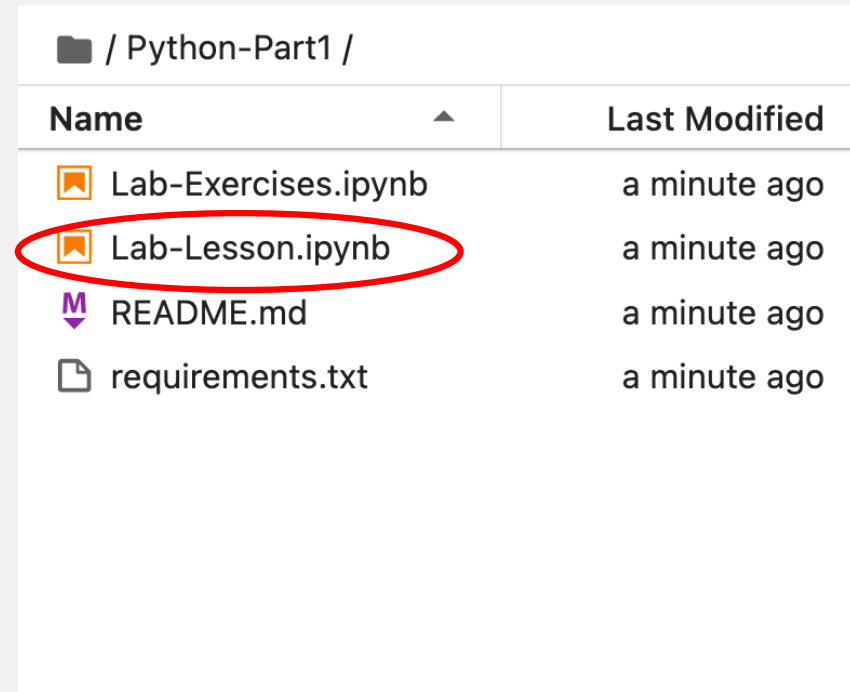
# Getting the Lab (cont.)

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A screenshot of a file explorer interface. The top bar shows navigation icons: a folder icon, a plus sign, a folder with a plus sign, an up arrow, and a refresh icon. Below the top bar is a breadcrumb path showing a folder icon followed by a slash. The main area is a table with two columns: 'Name' and 'Last Modified'. The 'Name' column has a small upward-pointing triangle next to it. The first row in the table is a folder named 'Python-Part1', which is circled in red. The 'Last Modified' column for this row shows 'seconds ago'. On the left side of the interface, there is a vertical sidebar with several icons: a square with a circle, a magnifying glass, a gear, a document, and a puzzle piece.

Name	Last Modified
Python-Part1	seconds ago



A screenshot of a file explorer interface showing the contents of a folder named 'Python-Part1'. The top bar shows a folder icon followed by a slash and the folder name. The main area is a table with two columns: 'Name' and 'Last Modified'. The 'Name' column has a small upward-pointing triangle next to it. The first row in the table is a folder named 'Python-Part1', which is circled in red. The 'Last Modified' column for this row shows 'seconds ago'. Below this, there are four files listed: 'Lab-Exercises.ipynb', 'Lab-Lesson.ipynb', 'README.md', and 'requirements.txt'. The 'Lab-Lesson.ipynb' file is circled in red. The 'Last Modified' column for all files shows 'a minute ago'. The file icons are: a notebook for the .ipynb files, a purple 'M' for the README.md file, and a document for the requirements.txt file.

Name	Last Modified
Python-Part1	seconds ago
Lab-Exercises.ipynb	a minute ago
Lab-Lesson.ipynb	a minute ago
README.md	a minute ago
requirements.txt	a minute ago

## Now to JupyterHub!

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- **We will continue the lesson in the lab notebook!**