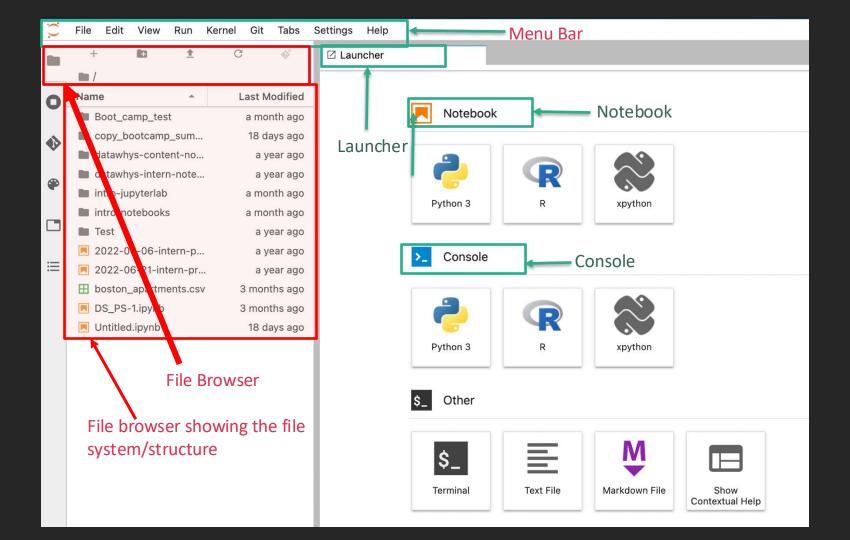
# File Management

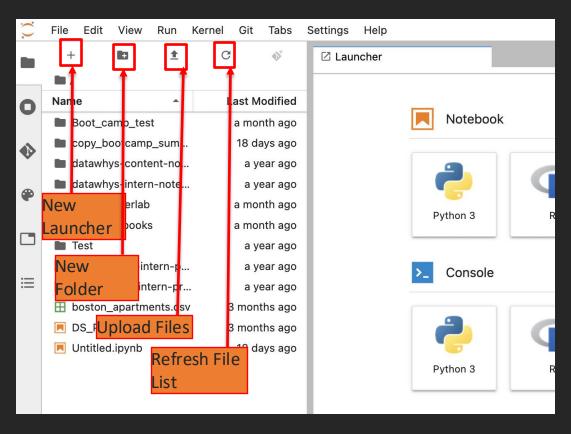
A guide to manage files in Jupyterlab user interface

## Objectives

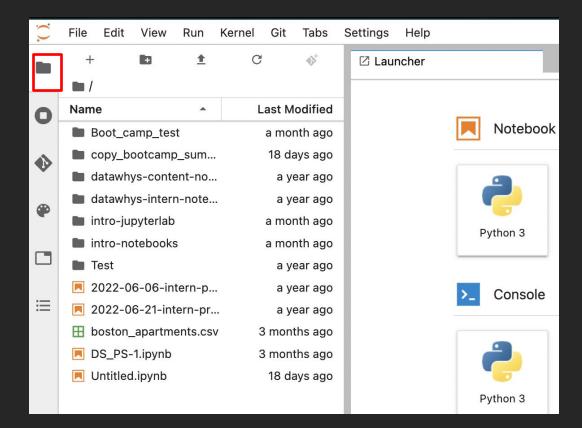
- Identify and name the file browser in JupyterLab and explain its UI elements.
- Perform general file management tasks



### File Browser Details

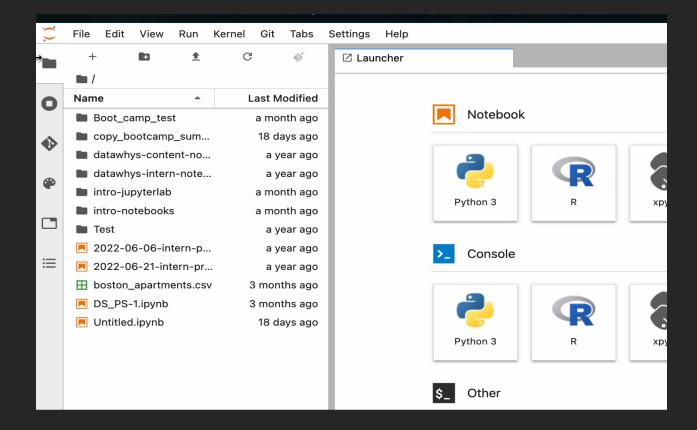


## Hide/Unhide File Browser Details



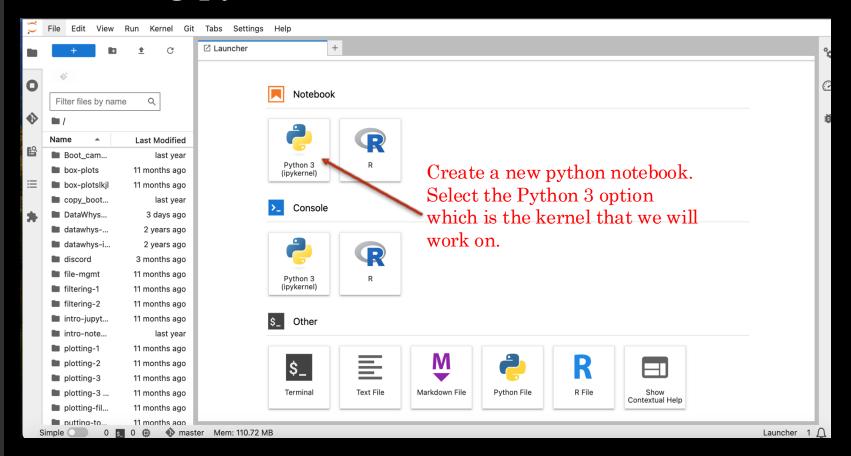
Click on the File Browser to hide/unhide the file browser details

## Hide/Unhide File Browser Details

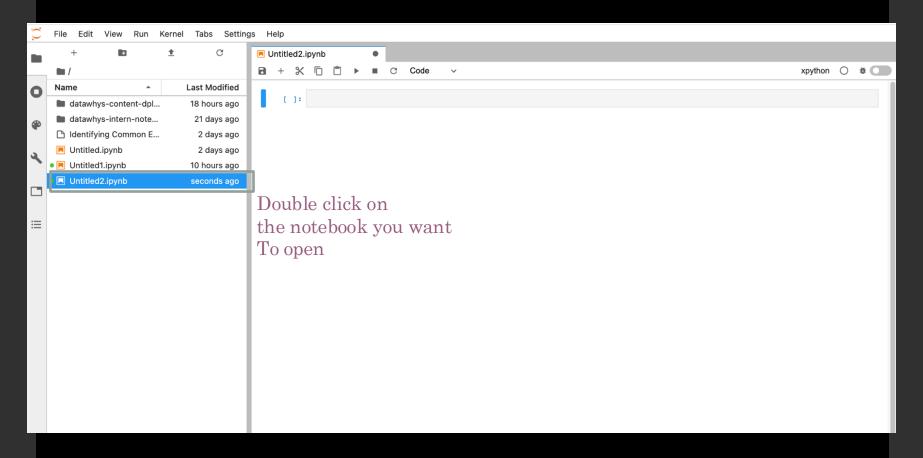


Click on the File Browser to hide/unhide the file browser details

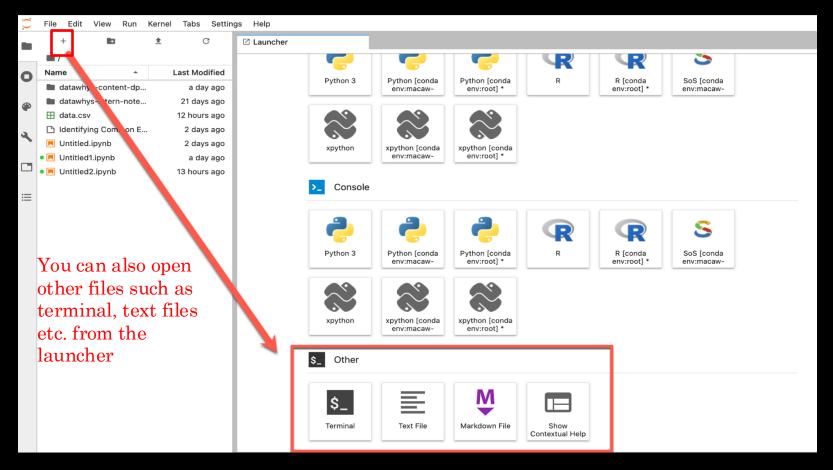
## Creating python file from launcher



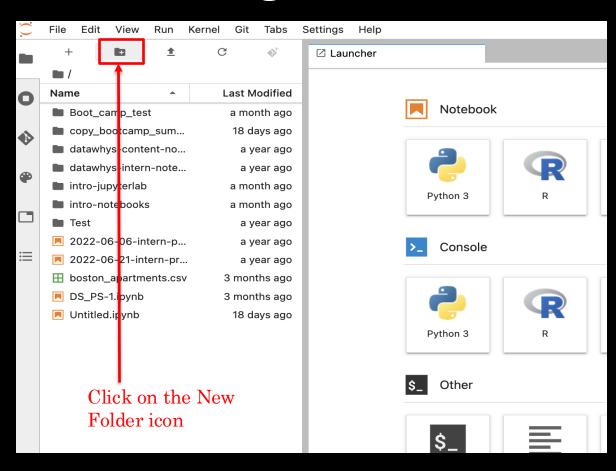
## Open created python file



## Opening other file types

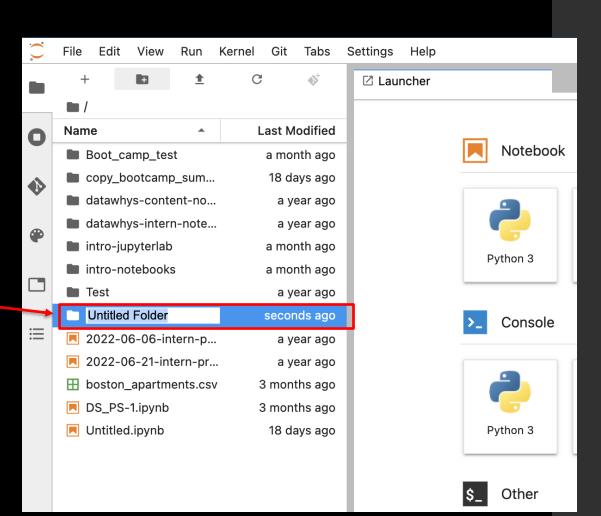


# Creating a Folder



### Creating a Folder

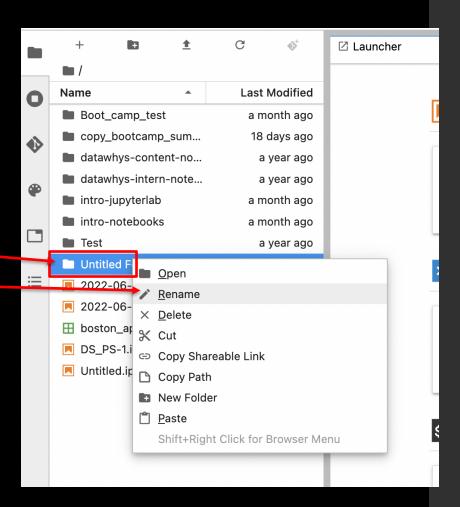
"Untitled Folder" created



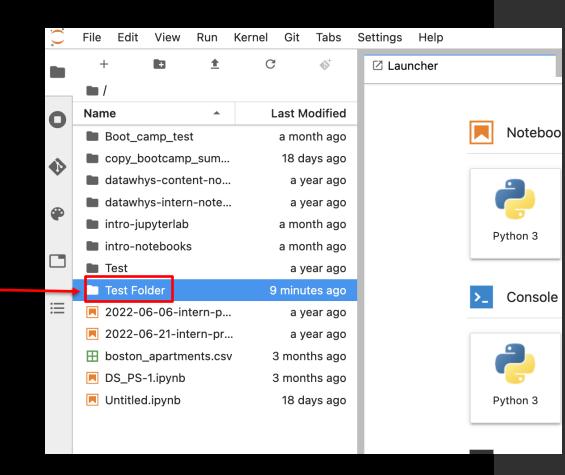
### Renaming a Folder

Right click on the folder name

Click on Rename and provide desired name and press "Enter" or Click any where

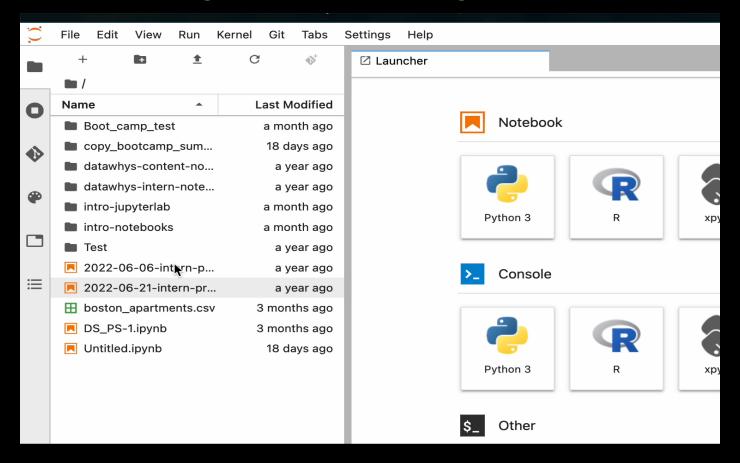


### Renaming a Folder



Folder has been

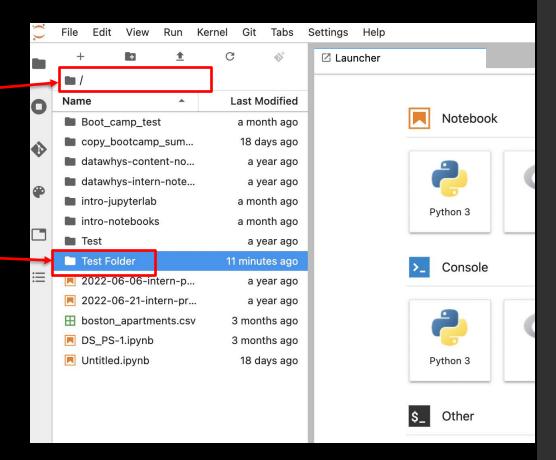
## Creating and Renaming a Folder



### Open Folder

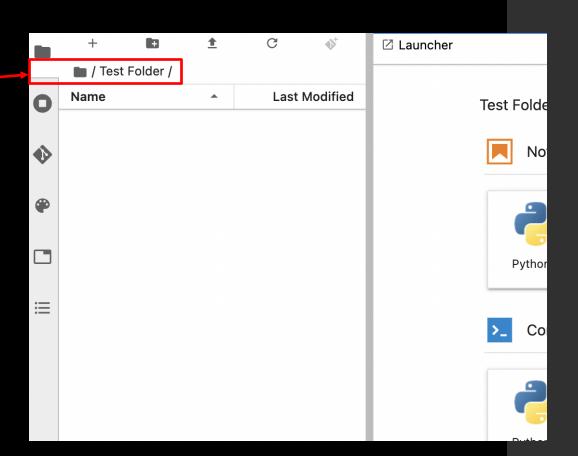
Before opening a new folder notice this.
This shows our current location in the file system.

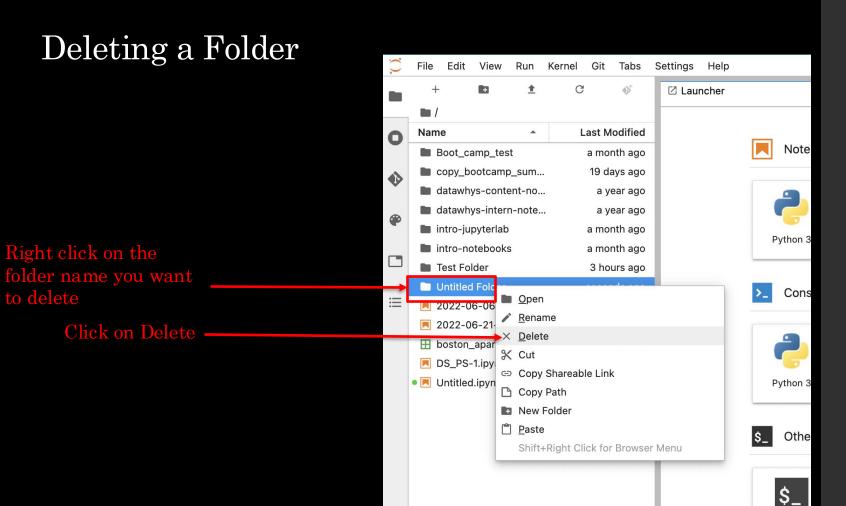
Double click to open a folder.



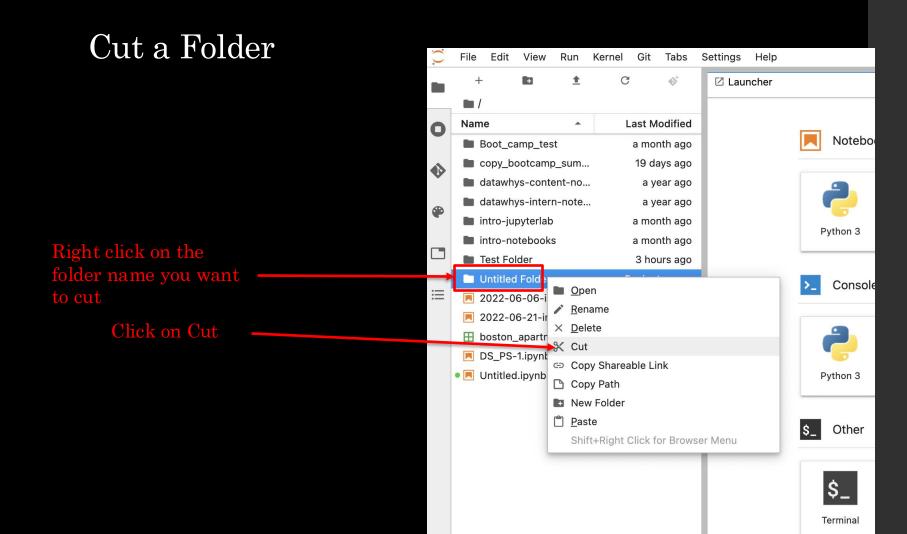
### Open Folder

Indicates we are in Test Folder





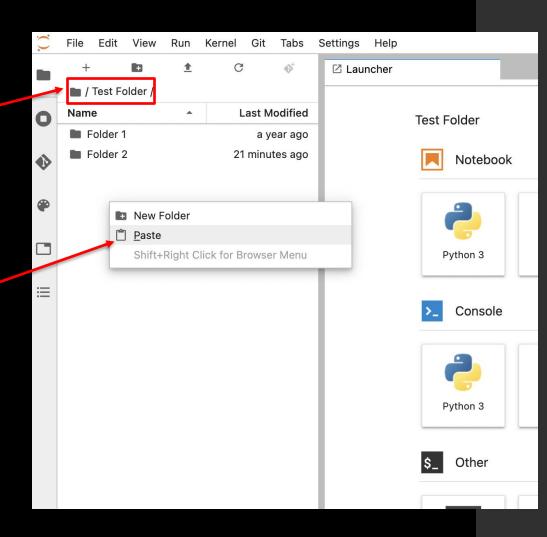
Terminal



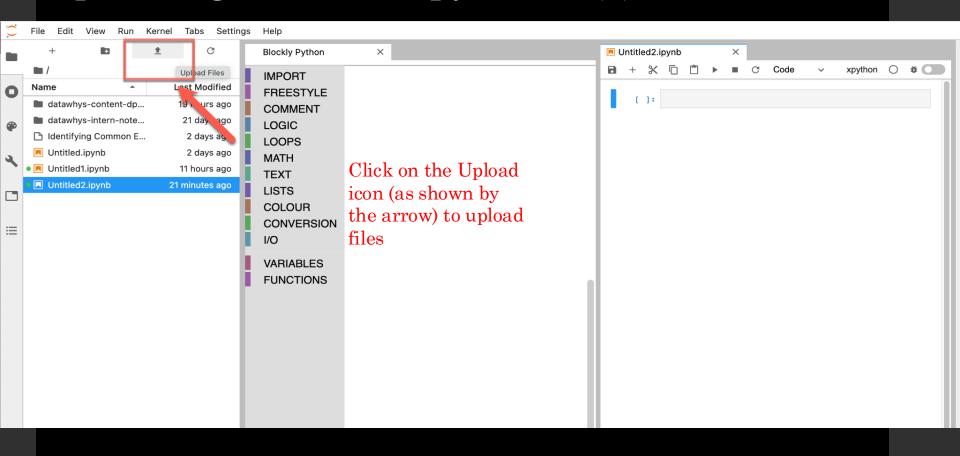
#### Cut a Folder

Open the folder where you want to Paste

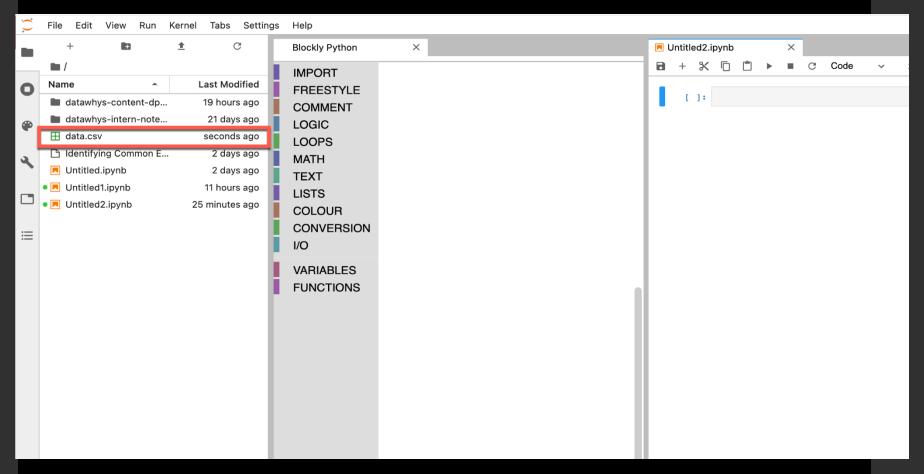
Right click and select Paste



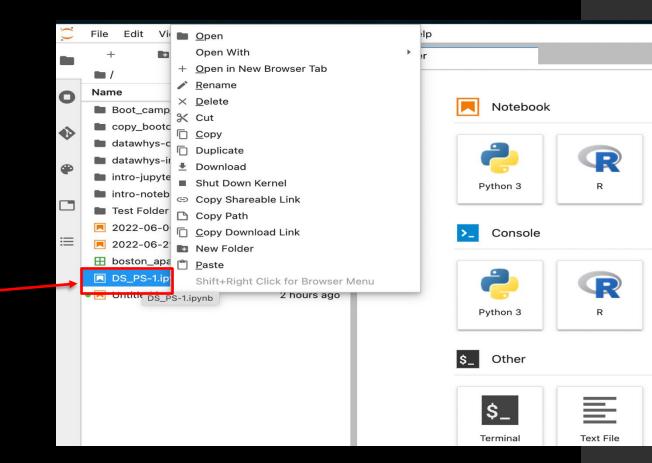
## Uploading a file in Jupyterlab (1)



## Uploading a file in Jupyterlab (2)



## File operations



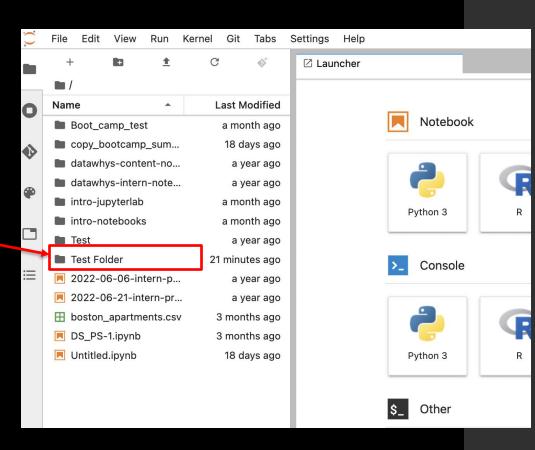
Right Click on any file to perform rename, copy, cut, delete, download etc.

### Upload a file in any specific folder

Suppose we want to upload a file in Test Folder. We've to

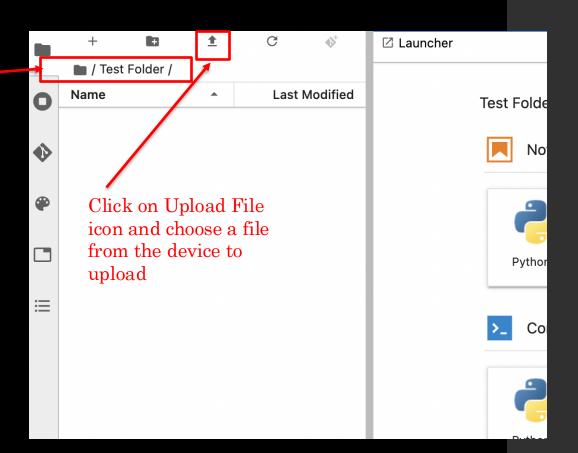
- Open Test folder
- Upload the file

Open Test Folder by double clicking

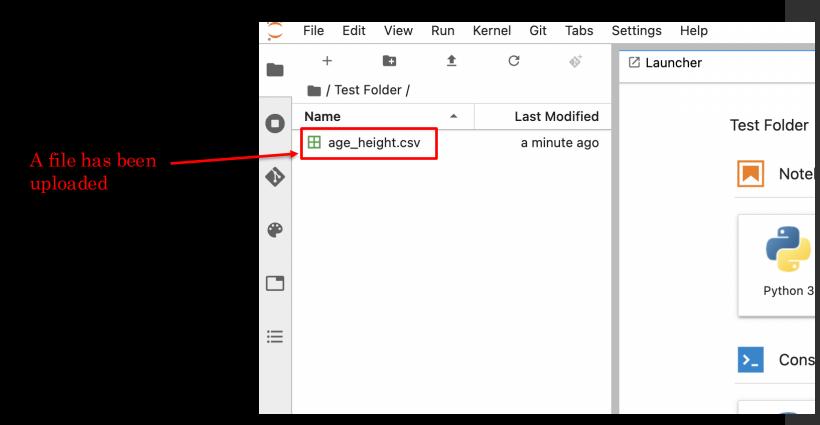


### Upload a file in any specific folder

Indicates we are in Test Folder



### Upload a file in any specific folder



### File Path

- A file path specifies the location of a file in a file system/structure.
- They can be used to locate files.

• Example: "/home/username/Documents/File1.txt".

In file system each folder is also known as "directory" and in each directory are separated with separator "/"

### File Path

Path: "/home/username/Documents/File1.txt".

- This path indicates that in our "home" directory or folder we have "username" folder.
- Within the "username" folder we have "Documents" folder.
- Within the "Documents" folder we have our targeted file "File.txt".

- home
  - username
    - Documents
      - File1.txt

### File Path

Path: "/home/username/Documents/File1.txt".



- "home" is the parent directory of "username"
- "username" is the parent directory of "documents"

Alternatively, we can say

- "username" is the child directory of "home"
- "documents" is the child directory of "username"

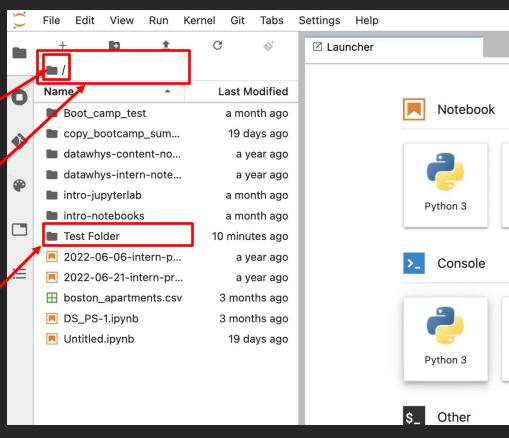
## File Path in Jupyter Lab

After Login the interface shows like this

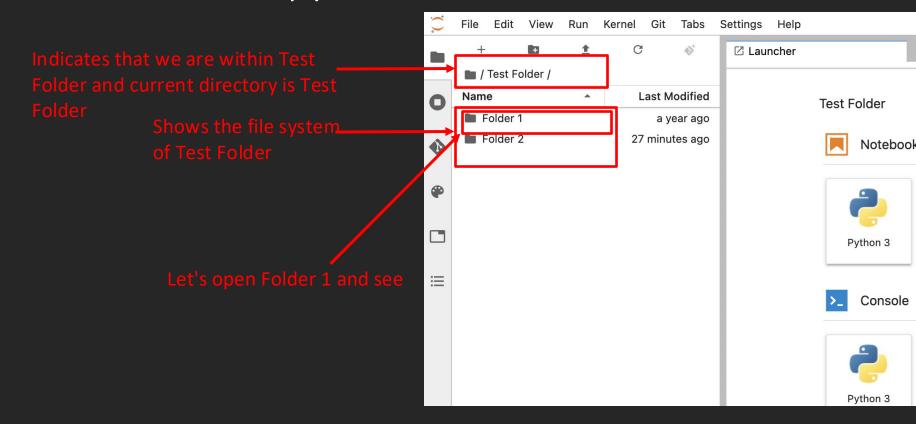
This "folder/" icon indicates root folder/directory fo

In JupyterLab current directory is shown in this area

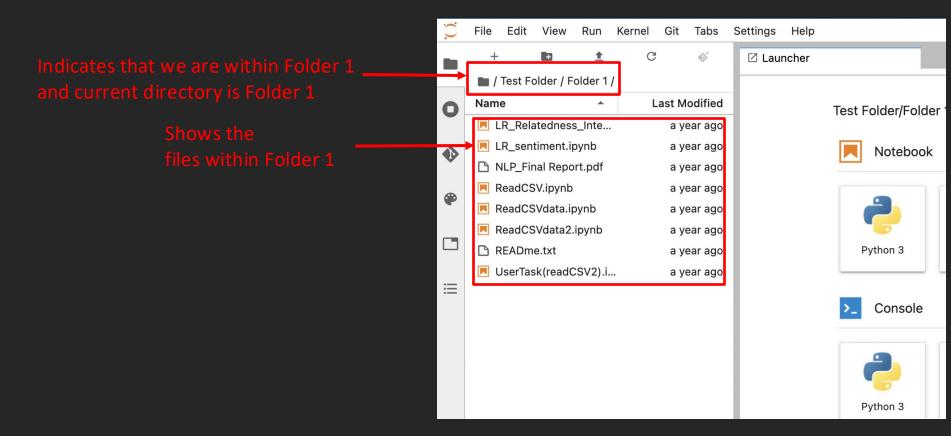
Let's open this folder and



## File Path in Jupyter Lab



## File Path in Jupyter Lab



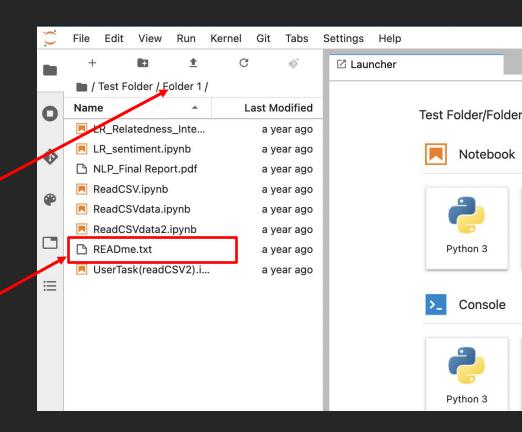
## Types of File Path

- Relative Path
- Absolute Path

 A relative path specifies the location of a file or folder relative to the current working directory.

Current directory is Folder:

READme.txt file is located in current directory.
The relative path of this file is "READme.txt"



- Suppose we have this file structure under our root directory. And our current directory is Folder 1.
- What is the relative path of Universities.csv?

Ans: "Universities.csv"

- Test Folder
  - Folder 1
    - Universities.csv
    - Folder 3
      - Students.csv
  - Folder 2
    - Teachers.csv

Given file structure

- Suppose we have this file structure under our root directory. And our current directory is Folder 1.
- What is the relative path of Students.csv?

- Test Folder
  - Folder 1
    - Universities.csv
    - Folder 3
      - Students.csv
  - Folder 2
    - Teachers.csv

- Suppose we have this file structure under our root directory. And our current directory is Folder 1.
- What is the relative path of Students.csv?
  - Notice that Students.csv is under Folder 3
  - Folder 3 is the child directory of Folder 1
  - The relative path of this Students.csv will be "Folder 3/Students.csv"

By this we go to Folder 3 as Folder 3 is child directory of Folder 1

- Test Folder
  - Folder 1 =
    - Universities.csv
    - Folder 3
      - Students.csv
  - Folder 2
    - Teachers.csv

- Suppose we have this file structure under our root directory. And our current directory is Folder 1.
- What is the relative path of Teachers.csv?

- Test Folder
  - Folder 1
    - Universities.csv
    - Folder 3
      - Students.csv
  - Folder 2
    - Teachers.csv

- Suppose we have this file structure under our root directory. And our current directory is Folder 1.
- What is the relative path of Teachers.csv?
- To navigate to Teachers.csv
  - First ,we have to go the parent directory Folder 1 which is Test Folder. For this we use "../"
  - Then we go to Folder 2 which is a child directory of Test Folder. For this we use "Folder2/"
  - Path will be "../Folder2/Teachers.csv"



- Folder 1
  - Universities.csv
  - Folder 3
    - Students.co
- Folder 2
  - Teachers.csv

### Absolute Path

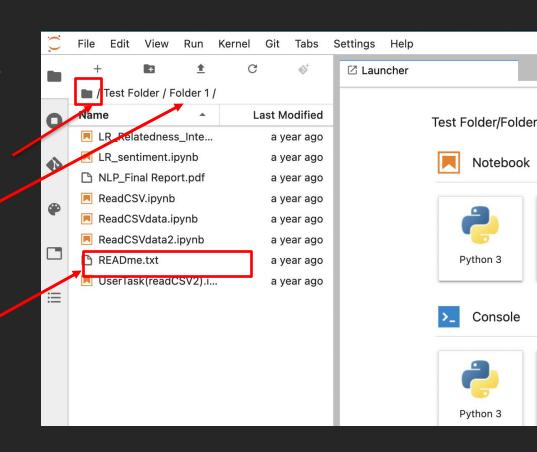
 An absolute path provides the complete location of a file or folder starting from the root directory

This "folder/" icon indicates root directory for each user

Current directory is Folder:

The absolute path of this file is "Test Folder/Folder 1/READme.txt"

 An absolute path doesn't depend on current directory

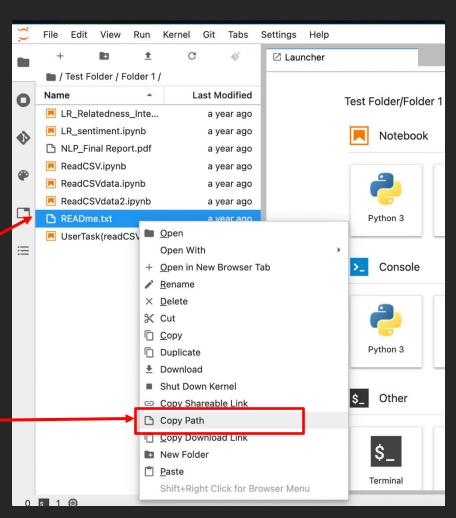


## Absolute Path in JupyterLab

 In JupyterLab absolute path can be obtained by "Copy Path"

Right click on a file

Path" will copy the absolute path in the clipboard. You can paste this in any textory



### Absolute Path

Suppose we have this file structure under our root directory.

- What is the absolute path of Students.csv if our current directory is Folder 1?
- What is the absolute path of Students.csv if our current directory is Folder 2?

- Test Folder
  - Folder 1
    - Universities.csv
    - Folder 3
      - Students.csv
  - Folder 2
    - Teachers.csv

### Absolute Path

Suppose we have this file structure under our root directory.

- What is the absolute path of Students.csv if our current directory is Folder 1?
- What is the absolute path of Students.csv if our current directory is Folder 2?

- Test Folder
  - Folder 1
    - Universities.csv
    - Folder 3
      - Students.csv
  - Folder 2
    - Teachers.csv

Absolute path doesn't depend on current directory. For both cases they are the same which is "Test Folder/Folder1/Folder3/Students.csv"

## Activity

• Open the Activity document and proceed with the tasks