Setting up your nanoHUB file structure in Jupyter Notebooks

This tutorial will show you how to set up your Jupyter notebooks file structure in nanoHUB. This file structure will consist of an organized set of **folders** or **directories** - those two terms mean the same thing.

Be sure you are **logged in** to nanoHUB.

Go to your nanoHUB **dashboard** by clicking on "Logged in"
Then scroll down to Dashboard and click.

Add the Tool Module to your Dashboard
- Click the blue button to Add Modules
- Click My Tools
- Click the blue button to Install Module

Increase the size of the My Tools Module
- Click in the module
- Grab the lower right corner of the module and drag it to the right and down to resize.

Add Jupyter Notebooks to your Favorites
- Click on All Tools
- Start typing Jupyter in the text entry box
- Click on the heart next to Jupyter Notebook to turn it bright red- this adds the tool to your Favorites
- Click on Favorites to check that it is there

Launch Jupyter Notebooks
- Click on the name Jupyter Notebook to get to the Jupyter Notebook Page
    - You can also click on the terminal icon, which looks like a small rectangle, to launch the tool
- Click on the blue button to launch the tool

(It will take a few moments for the tool to load.)

Once the tool has loaded, you will be in the **Jupyter Dashboard.**

Here, you will see the **folders** and **files** in your nanoHUB file space.

If you have not used nanoHUB much, there will only be one folder, called **data**.

We are going to set up a folder, or directory, called **notebooks**, where you will store all of your Jupyter notebook projects and assignments in separate sub-folders.

To create a directory called notebooks:
- Click on **New** to open the drop-down menu
- Click on **Folder.** This will create a directory called Untitled Folder**.**
- To change the name of this folder, click on the box next to Untitled Folder.
- Click on **Rename**, then replace the text "Untitled Folder" with notebooks.
- Now there is a folder called notebooks in your filespace.

Next, we will create a subfolder called project1 within the notebooks directory.
- Click on notebooks to enter the notebooks directory.
- Follow the same procedure as above, to create another directory
  - Click on **New** to open the drop-down menu
  - Click on **Folder.** This will create a directory called Untitled Folder**.**
  - To change the name of this folder, click on the box next to Untitled Folder.
  - Click on **Rename**, then replace the text "Untitled Folder" with project1.
  - Now there is a folder called project1 in your filespace.
  - Click on project1 to enter that directory.

The path bar at the top of the Jupyter Dashboard will show the entire path: home/notebooks/project1

Let's create one more directory, in the notebooks directory, called py4e.
You can pause the video here and try to complete this task on your own.
- Click on notebooks to enter the notebooks directory.
- Follow the same procedure as above, to create another directory
  - Click on **New** to open the drop-down menu
  - Click on **Folder.** This will create a directory called Untitled Folder**.**
  - To change the name of this folder, click on the box next to Untitled Folder.
  - Click on **Rename**, then replace the text "Untitled Folder" with py4e.
  - Now there is a folder called py4e in your filespace.
  - Click on py4e to enter that directory.