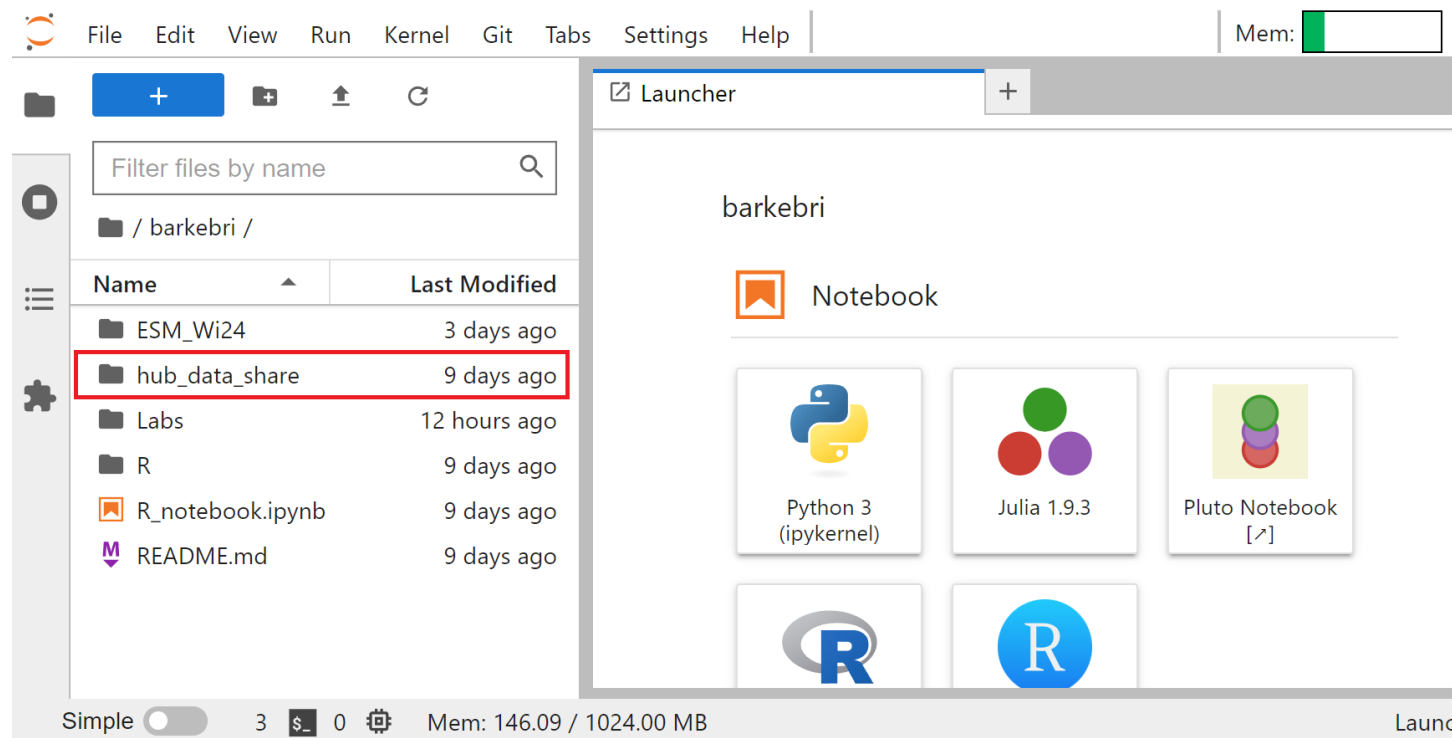# Copying Lab Assignments
Ecological Systems Modeling (Winter 2024)

Before you start

Make sure that you have created the `Labs` folder in you home directory before proceeding. We did this step during the introduction to RStudio.
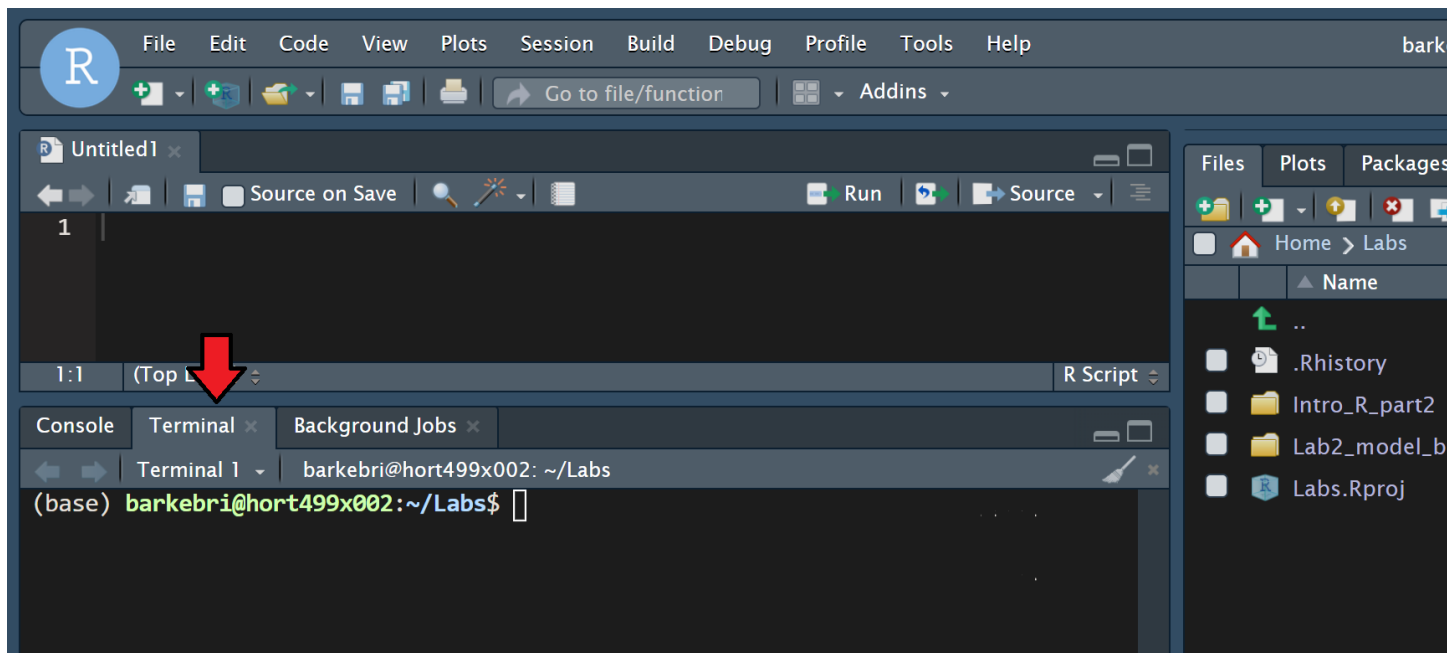
Lab assignments in Jupyter Hub

All of your lab assignments and coding tutorials will be located in a folder (directory) named `hub_data_share`. You will see `hub_data_share` in your home directory after starting your server. (Note: you won't have all of the other directories showing in my screenshot below). You will need to copy folders from `hub_data_share` to the `Labs` folder in your home directory to complete your lab assignments. The below steps describe how to do this.
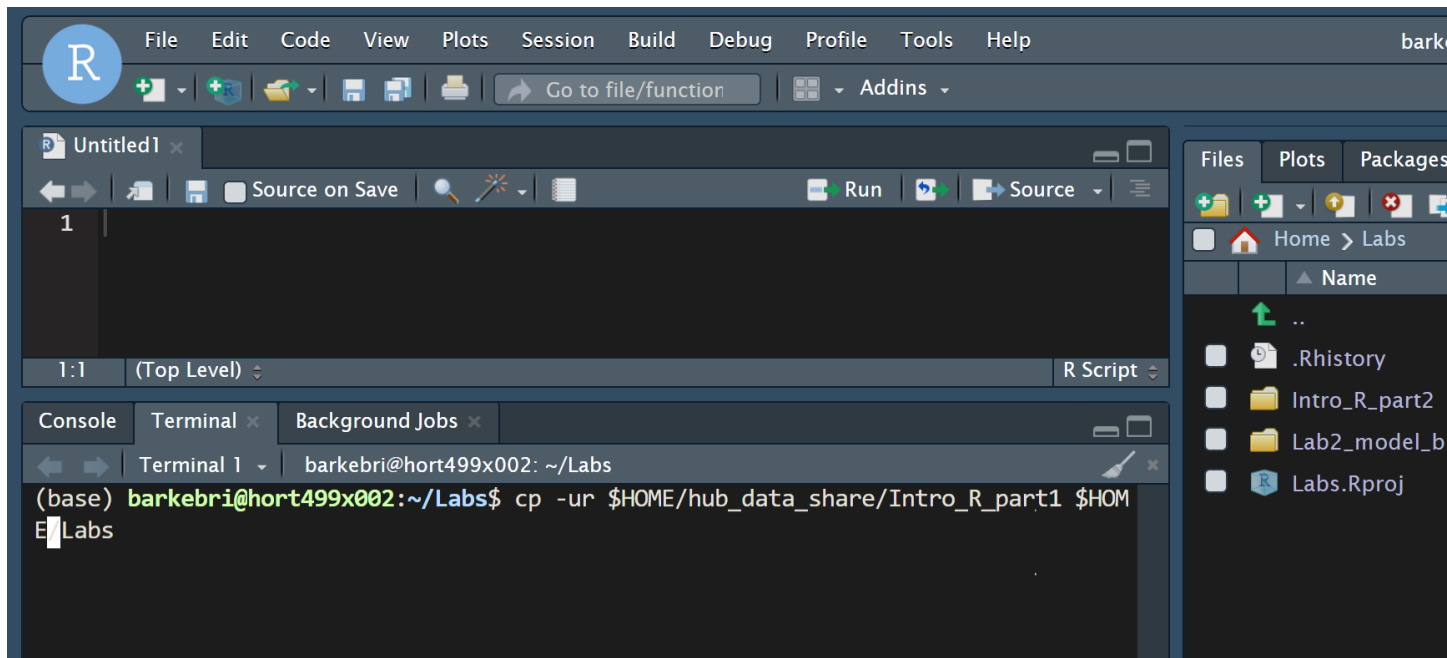

Method 1: Using the Terminal in RStudio

1. Open up RStudio and click on the Terminal tab in the Console pane (bottom-left)
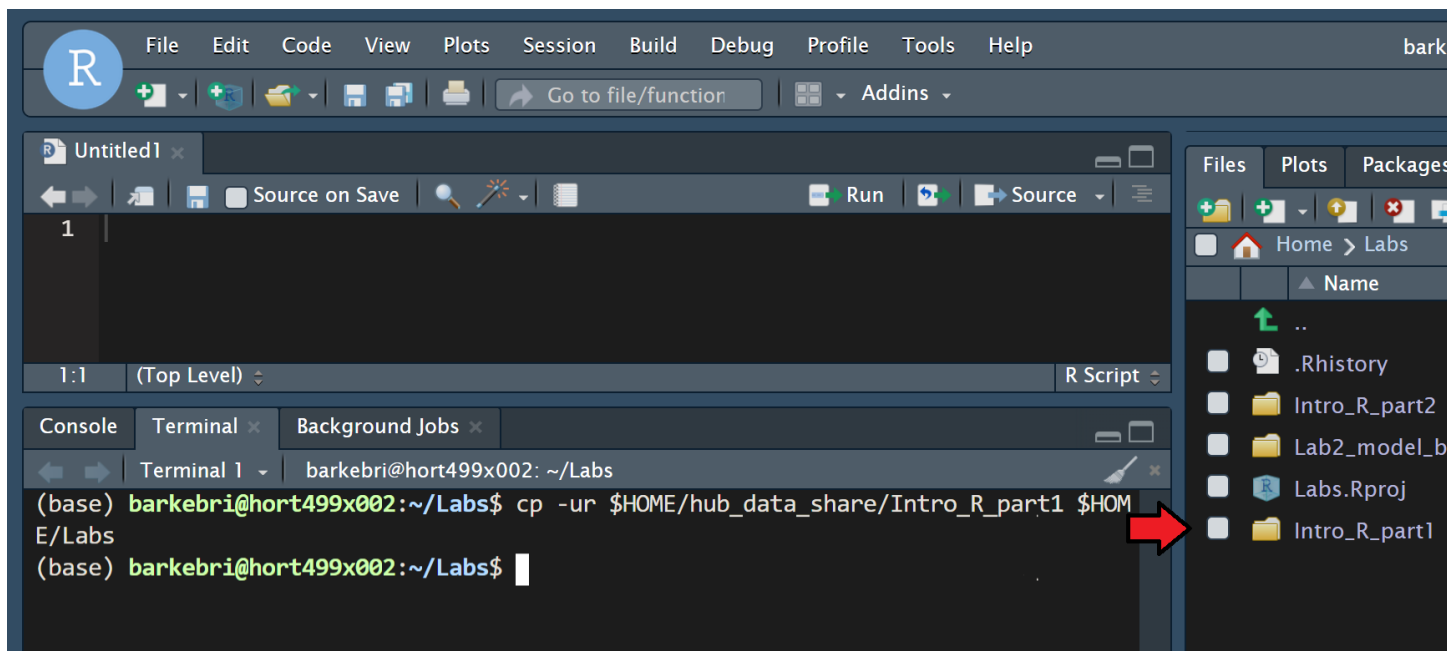
2. To copy a folder that contains files for `Intro_R_part1` in `hub_data_share` to your `Labs` folder in your home directory, you would type the following command in Terminal:

```
cp -ur $HOME/hub_data_share/Intro_R_part1 $HOME/Labs/
```


If it worked correctly, you should see the folder appear in the `Files` tab of the Files/Plots/Packages/etc. pane, as below.
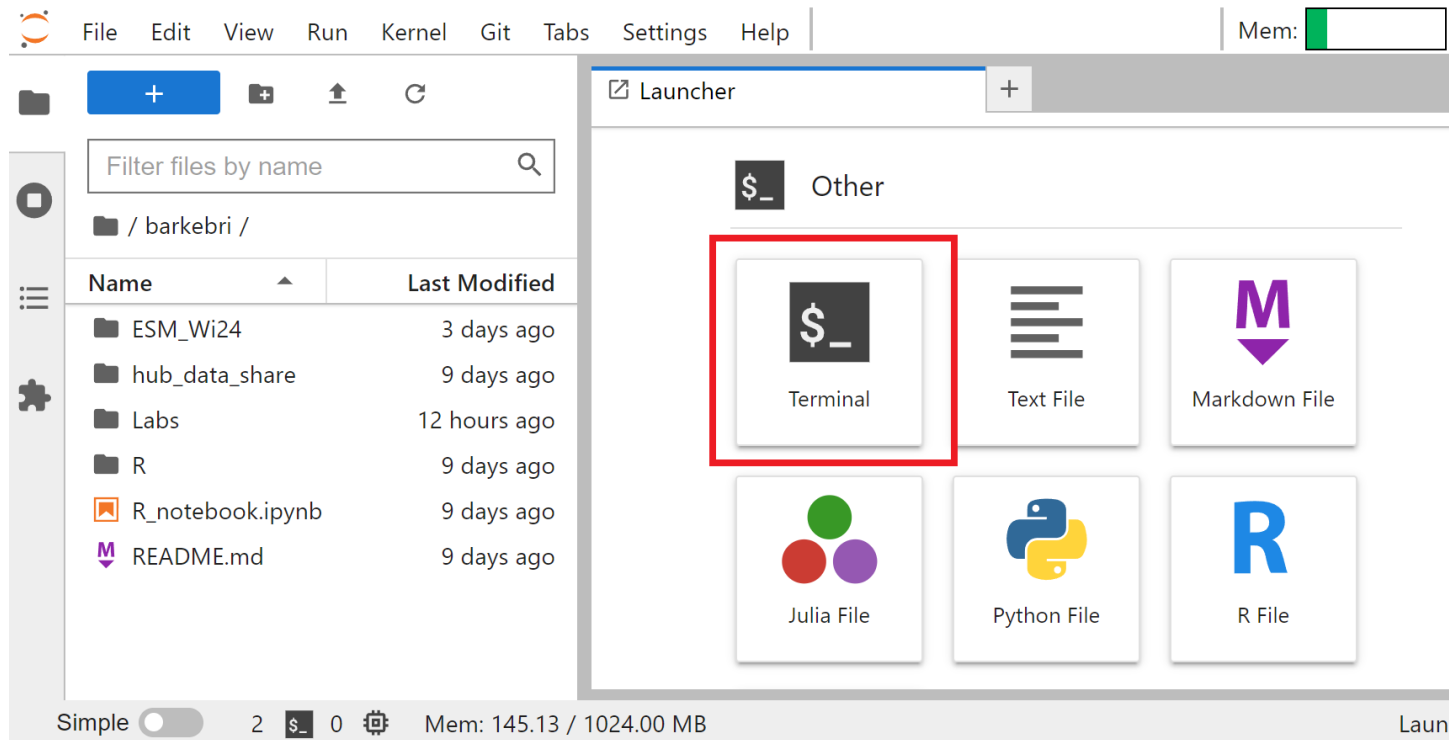
Explanation:
- The `cp` command copies files and directories.
- The `-u` option indicates copying only new and missing files to the destination, and the `-r` option indicates drilling down through the directory structure. For more information on `cp`, please type in Terminal: `cp --help`.
- `$HOME` is the path to your home directory, which is `/home/your_onid`.

You can also use `cp` to copy single files. In this case, you wouldn't need to include the `-r` option. For example, if you just wanted a single file named `file1.txt` from `hub_data_share` to your `Labs` folder, you could enter the following command:
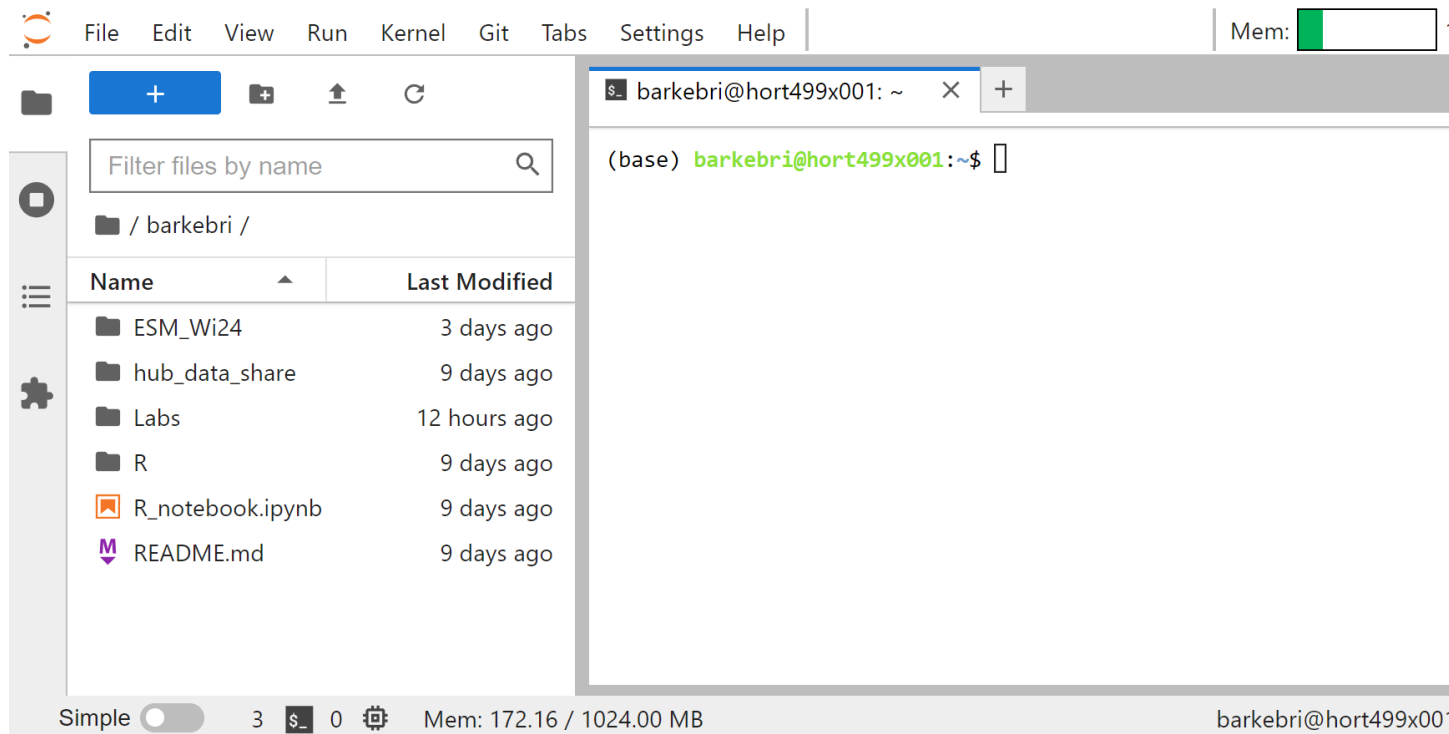
`cp $HOME/hub_data_share/file1.txt $HOME/Labs/`

Method 2: Using the Terminal in Jupyter Hub

1. In the `Launcher` tab, scroll down to the `Other` section

2. Click on `Terminal` (black box with money symbol) to start a session

3. Follow the same steps as #2 in Method 1, i.e., type your command such as:

```
cp -ur $HOME/hub_data_share/Intro_R_part1* $HOME/Labs/
```

Warning

Be very, very careful about deleting your files on the server. There might no way to recover them. Functions that you want to AVOID in the Terminal are `rm` (remove file) and `rm -rf` (remove directory).