

## Bash and GitHub

**Due Date: Thursday 9/7 @ 11:59 PM**

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### Note on Absolute vs Relative File Paths

Absolute File Paths: The entire path of a file or folder starting with “/” or “/mnt/c/”

- Mac example: `/Users/wadeb/Documents/QBIO490/course_description.pdf`
- PC Example: `/mnt/c/Users/wadeb/Documents/QBIO490/course_calendar.pdf`

Relative File Paths: A shortened file path that takes your current location into consideration.

- `.` represents your current directory, `..` represents the previous directory (one above)
- In `/Documents` folder...  
`./QBIO490/` = `../Documents/QBIO490/` = `/mnt/c/Users/wadeb/Documents/QBIO490/`

### **Answer the following questions about Bash:**

- Type out definitions for the following commands and shortcuts in your own words. Refer to the slides for definitions of commands, and use google to look up the definitions of any unknown shortcuts.
  - a. `Pwd` – this shows the user where they are, or the directory they are in (good as a waypoint)
  - b. `Mkdir` – make directory, creates a directory to store files
  - c. `cd <dir>` - moves directory to the directory
  - d. `cd ..` – moves directory to the back one
  - e. `ls` – list function, which notifies user of all files in a specific directory
  - f. `rm` and the `-r` flag – remove files and directories (a delete function)
  - g. `scp` – copies a directory or file to another location
  - h. `nano` (including `Ctrl+o` and `Ctrl+x`) – a text editor WYSIWYG (What you see is what you get); the functions, `Ctrl+o` and `Ctrl+x`, are “Save-as” and exit nano, respectively
- What command would you use to navigate to your Desktop from `/Users/` using an absolute path? Relative path?
  - a. “`Cd home/Users/tomasmanea/Desktop`” for absolute path & “`cd Desktop/`” for relative path
- How would you copy `/Desktop/Example Folder/` with multiple documents inside to `/Documents/`?

- a.
- If you didn't know which folder you were in, how would you navigate back to /Documents/?
  - a. I would "pwd" which would orient myself, then I would "cd Documents/"

**Answer the following questions about Nano:**

- How do you create a new unnamed document within a directory?
  - a. Ctrl + R while in Nano
- What are the steps to saving and naming a document?
  - a. Write something, then hit
- When should nano be used for file editing?
  - a. You are given immediacy with typing and editing after opening the respective file