

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` :

“print working drive” which will give the absolute file path

b. `mkdir` :

“make directory” which creates a new directory or folder

c. `cd <dir>` :

“change directory” which is a command will take you to the absolute or relative path following the command

d. `cd ..` :

this “change directory” command will take you one directory back

e. `ls` :

“list” will list all content including the files or folders within the current directory

f. `rm` and the `-r` flag :

“remove” will remove the specified file or directory, the `-r` flag means recursive which will include all files in a specified directory

g. `scp`:

“secure copy” this copies one file from one location to another

h. `nano` (including `Ctrl+o` and `Ctrl+x`) :

this is the terminal text editor and using the command followed by the file name can allow you to edit a text file

- What command would you use to navigate to your Desktop from `/Users/` using an absolute path? Relative path?

Relative path: `cd Desktop`, Absolute path: `cd /Users/kevinliu/Desktop`

- How would you copy `/Desktop/Example Folder/` with multiple documents inside to `/Documents/`?

`scp -r /Users/kevinliu/Desktop/Example Folder/ /Users/kevinliu/Documents/`

- If you didn't know which folder you were in, how would you navigate back to `/Documents/`?

`cd /Users/kevinliu/Documents/`

Answer the following questions about Nano:

- How do you create a new unnamed document within a directory?

`nano`

- What are the steps to saving and naming a document?

`Ctrl+o` which will then prompt you to name the document and save it

- When should nano be used for file editing?

nano is best used for small edits to files