Foundations of Data Science for Biologists

Sending Files Around

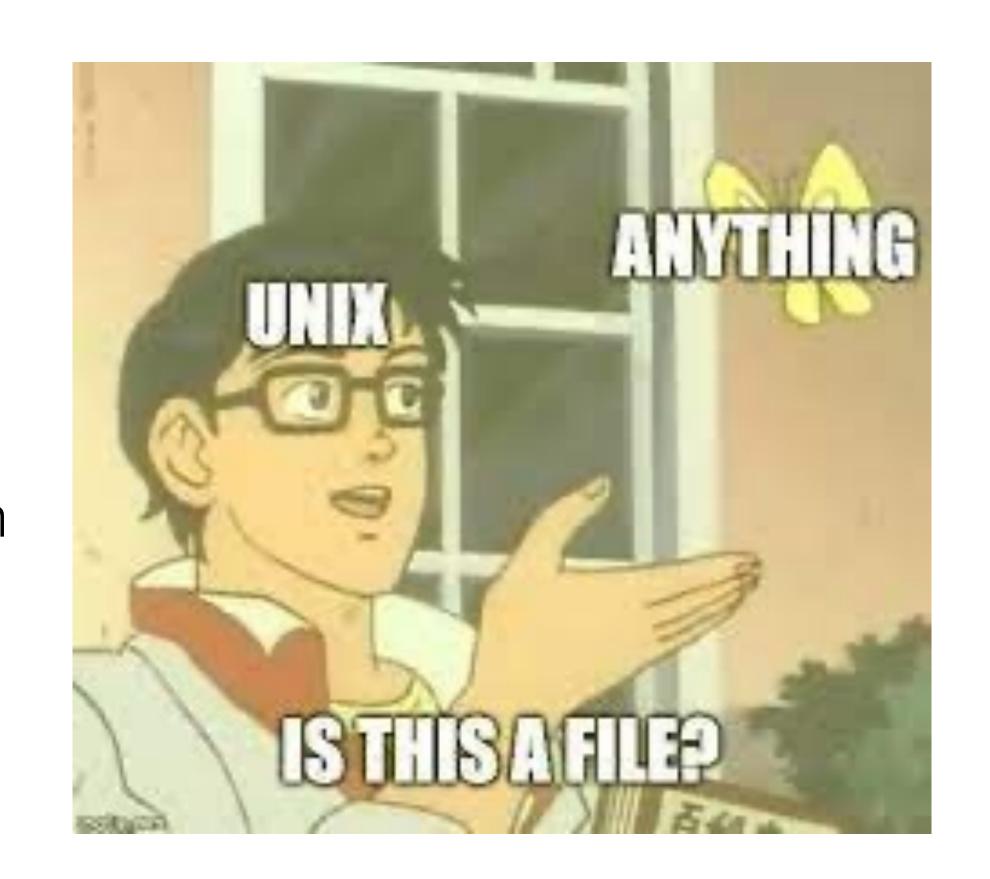
BIO 724D

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Goals for Today

- 1. Learn how to use wget to pull files from the web
- 2. Learn how to use Cyberduck to send files back and forth from your computer to your VM
- 3. Quick note on using SCP to send files back and forth from your computer to your VM



Using wget and git clone

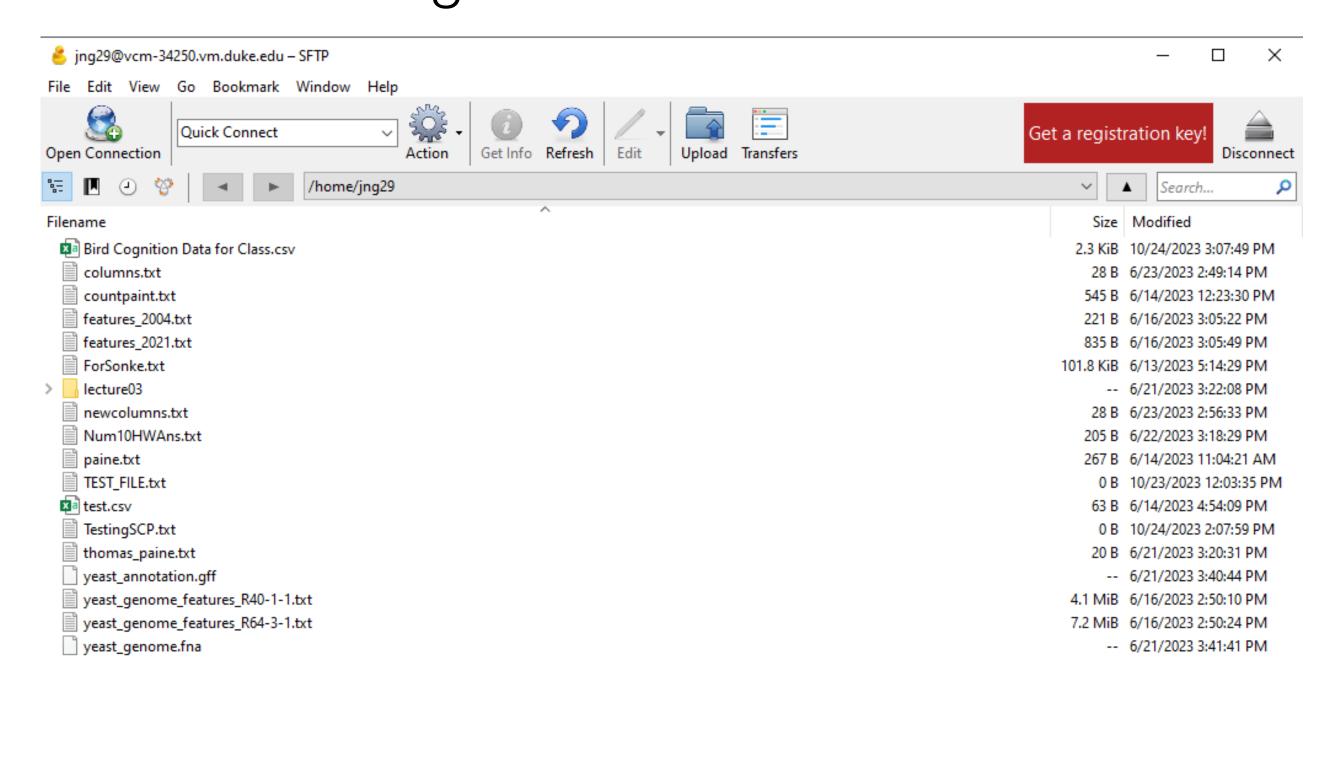
- wget pulls files from the web.
- Let's try pulling the Bird Cognition Data from last class:
 wget https://raw.githubusercontent.com/Bio724D/Bio724D_2023_2024/main/data/Bird%20Co

gnition%20Data%20for%20Class.csv

- Things get more complicated if you want to pull a zipped file. For example: wget https://swcarpentry.github.io/shell-novice/data/shell-lesson-data.zip
- The .zip indicates it is a compressed file.
- Unzip it using unzip to create a directory named shell-lesson-data unzip shell-lesson-data.zip
- The textbook also has you import a directory using git clone. Run the following code to make a new directory named CSB
 - git clone https://github.com/CSB-book/CSB.git

Using Cyberduck to send files from your computer to your VM and vice versa

- Open Cyberduck. It should show all the files in your VM
- Open your file manager
- You can now just drag and drop files from your VM into your file manager and vice versa.
 Let's practice with the Bird Cognition Data



Using SCP to send files from your VM to your computer

- Open a second terminal WITHOUT closing your current one ("terminal" for Mac, "powershell" for Windows)
- You should now have one terminal that is logged into your VM, and one terminal that is operating from your computer
- Note: You have to use the terminal logged into your computer to send files from your VM to your computer, AND vice versa.
- Using the terminal logged into your computer, type: scp NETID@HOSTNAME:~FILENAMEI
 ./
 - (Don't forget the space in between your file name and the ./) EX: scp ing29@vcm-34250.vm.duke.edu:~/TEST_FILE.txt ./
- It will ask for a password if done correctly
- Where did it put the file on your computer?

Using SCP to send files from your computer to your VM

- Open a second terminal WITHOUT closing your current one ("terminal" for Mac, "powershell" for Windows)
- You should now have one terminal that is logged into your VM, and one terminal that is operating from your computer
- Note: You have to use the terminal logged into your computer to send files from your VM to your computer, AND vice versa.
- Make an empty text document in the directory your terminal is reading from called TestSCP.txt
- Using the terminal logged into your computer, type: scp FILENAME NETID@HOSTNAME:~
 (Don't forget the :~ at the end of your hostname)
 - EX: scp TestSCP.txt jng29@vcm-34250.vm.duke.edu:~
- It will ask for a password if done correctly
- Use Is to make sure it is now in your VM

Other Note: Copy and Paste

- Window users may find you can't copy and paste in your command line the same way you copy and paste in other programs, in which case you will have to enable a shortcut.
- In Powershell or Windows Command Processor:
- 1. Right click on the white bar at the top of your screen. This should open a menu.
- 2. Click on "Defaults". This should open the Console Windows Properties.
- 3. Click the box for "Use Ctrl+Shift+C/V as Copy/Paste"

