1. Windows

- a. Is list directory
 - i. Can enter the path as a command parameter
 - 1. Is C:\
 - ii. Is -Force C:\
 - 1. The -Force parameter will show hidden and system files that aren't normally listed with just Is.
 - iii. pwd
 - 1. Print working directory
- b. cd
 - i. Change directory
 - 1. Examples
 - a. cd C:\Users\cindy\Documents
 - cd command on an absolute path
 - b. cd ..
 - i. Change directories to the parent directory of current path
 - ii. Considered a relative path command as it takes you up one folder level relative to where you were before
 - c. cd..\Desktop
 - i. We know that the desktop and document directories are under the home directory so we could run cd.., then cd desktop but there's actually an easier way to write this. Cd..backslash desktop.
 - d. cd ~
 - i. The tilde is a shortcut for the path of your home directory
 - ii. cd ~\Desktop
- c. Tab completion
 - i. Lets us use the tab key to auto-complete file names and directories
- d. .\
- i. Means current directory
- e. mkdir
 - i. Make directory
- f. history
 - i. See a list of commands that you entered earlier
 - ii. Can scroll through the commands just by hitting up or down at the type prompt
- g. Ctrl + R
 - i. History shortcut / Search commands
- h. ` backtick
 - i. Escapes a character

- 1. Example
 - a. Mkdir my` cool` folder
- i. " quotes
 - i. Can surround a file name so the spaces are included
 - 1. Example
 - a. Mkdir "my cool folder"
- j. Cp
 - i. Copy
 - 1. Example
 - a. Cp mycoolfile.txt C:\Users\cindy\Desktop
- k. Wildcard a character that's used to help select files based on a certain pattern
 i. *
 - 1. Example
 - a. Cp *.jpg C:\Users\cindy\Desktop\
- Recurse
 - i. List the contents of the directory
- m. -Verbose
 - i. Copy doesn't output anything to the CLI by default unless there are errors
 - ii. This command will output one line for each file in the directory being copied
- n. Example combo command
 - i. cp 'Bird Pictures'C:\Users\cindy\Desktop\ -Recurse Verbose
 - 1. This copies the directory and all of its contents while printing a log for each file that was copied
- o. Mv
 - i. Move (can also be used to rename files)
 - 1. Example
 - a. Rename
 - i. Mv .\blue_document.txt yellow_document.txt
 - 1. This "moves" the file without changing the directory
 - b. Move
 - i. Mv .\yellow_document.txtc:\Users\cindy\Documents
 - ii. Mv *_document.txt C:\Users\cindy\Documents

- p. Rm
 - i. Remove
 - ii. Take caution when using remove because it does not use the recycle bin. Once the files or directories are removed, they're gone for good
- q. Cat
 - i. Short for concatenate; it shows the file contents
 - ii. This displays one line at a time until the document is fully printed/viewed
- r. More

- i. This command lets you view all the contents at once, or it will stop once it fills the terminal window
- ii. When we run the more command, we're launched into a separate program from the shelf. This means that we interact with the more program with different keys
 - 1. The Enter key advances the file by one line.
 - 2. Space advances the file by one page.
 - 3. The Q key allows you to quit out of more and go back to your shell. If we want to leave the more command and go back to our shell, we can just hit the Q key
- s. -Head
 - i. To be used with the cat command
 - 1. Example
 - a. Cat fruits.txt -Head 10
 - i. This will show us the first 10 lines of a file

- t. -Tail
 - i. To be used with the cat command
 - ii. Similar to -Head but to view the last lines of a file
 - 1. Example
 - a. Cat fruits.txt -Tail 10
 - i. This will show us the last 10 lines of a file
- u. Start notepad++ hello.txt
 - i. Need to download notepad++ first
 - ii. This command allows you to edit a file right in the CLI
- v. Powershell commands
 - i. Get-Help
 - 1. Used to see more info about commands
 - 2. /?
- a. Get-Help with cmd.exe commands
- ii. Get-Alias
 - 1. Used to see the actual command that is being run
 - a. Example
 - i. Get-Alias Is
 - This works because Is is an aliased command to make it similar to a linux bash command
- iii. Get-ChildItem
 - 1. Example
 - a. Get-ChildItem C:\
 - i. Same output as Is C:\
- iv. Cmd.exe
 - 1. Commands from the old MSDOS days of windows but they can still be run due to backwards compatibility
 - 2. They are not as powerful as PowerShell commands

2. Linux

- a. Is list directory
 - i. Is /
- 1. Can see all the contents under the root directory
- ii. Is -I
 - for long. This shows detailed info about files and folders in a long list format
- iii. Is a
 - 1. For all. This shows us all the files in the directory, including the hidden files
- iv. Is -la /
 - 1. Appended two different flags together. This is the same thing as Is -I -a /, both work the same way
 - 2. The order of the flag determines which order it goes in. In our case, it doesn't matter if we do a long list first or show all files first
- b. man
 - i. This is the command for Manual
 - 1. Example: man Is
- c. .i_am_hidden
 - i. You can hide a file or directory by pre-pending a dot to it
- d. pwd
 - i. Print working directory
- e. cd
 - i. Change directories
 - 1. Examples
 - a. cd /home/cindy/Documents
 - b. cd ../Documents
- f. Tilde (~) represents the home directory
- g. mkdir
 - i. Make directory
- h. \
- i. Escapes a character
 - 1. Example
 - a. Mkdir my\ cool\ folder
- i. " quotes
 - i. Can surround a file name so the spaces are included
 - 1. Example
 - a. Mkdir "my cool folder"
- i. history
 - i. See a list of commands that you entered earlier
 - ii. Can scroll through the commands just by hitting up or down at the type prompt
- k. Ctrl + R

History shortcut / Search commands ` - backtick I. 1. Escapes a character a. Example i. Mkdir my` cool` folder ii. " - quotes 1. Can surround a file name so the spaces are included a. Example i. Mkdir "my cool folder" m. Clear İ. Clears the terminal screen n. Cp Copy İ. ii. Example Cp my_very_cool_file.txt ~/Desktop Ο. i. Wildcard 1. Example a. Cp *.png ~/Desktop i. This combo command copies all .png files from the current directory to the Desktop p. -r The flag for recursive copy İ. 1. Example Cp -r 'Cat Pictures' ~/Desktop This combo command copies a directory and all the contents within from the current directory to Desktop q. Mv i. Move Example a. Mv blue_document.txt ~/Documents ii. Can also be used to rename files 1. Example a. Mv red_document.txt blue_document.txt Can move multiple files at a time using the wildcard operator(? function?) iii. 1. Mv *_document.txt a. This moves all files that end in document.txt r. Rm i. Remove s. Cat i. Short for concatenate; it shows the file contents ii. This displays one line at a time until the document is fully printed/viewed

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Less

- i. Similar to the more command in windows, but with more functionality
- ii. Fun fact there's a bash command called More but it's been slowly dying out in favor of Less. It's literally a case of less is more.
- iii. Kevs
 - 1. Up and down
 - 2. Page up and page down
 - 3. g moves to the beginning of a text file
 - 4. G moves to the end of a text file
 - 5. /word_search allows you to search for a word or phrase
 - a. Example
 - i. /money all instances of money in the document will be highlighted
 - 6. q allows you to guit out of less and go back to your shell
- u. head
 - i. By default, will show the first 10 lines of a file
 - 1. Example
 - a. Head fruits.txt
- v. Tail
 - i. By default, will show the last 10 lines of a file
 - 1. Example
 - a. tail fruits.txt
- w. Nano my_file
 - i. Opens nano text editor
 - ii. Nano then the name of the file
 - iii. Nano is built into most Linux Distributions

X.