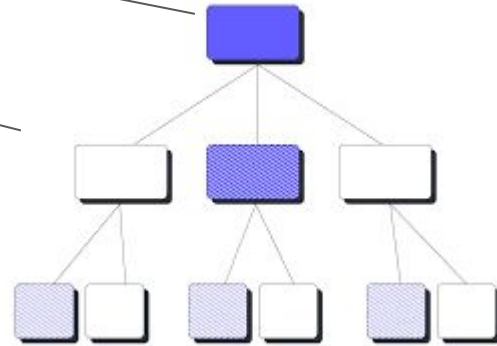# Linux Basics

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Why Linux?

1. Open source(Anyone can use it)
2. The system behind many machines and systems
3. A very useful skill

Linux structure

User

Directory(ies)

Files

How to examine where you are?

Command: "pwd"

Purpose: Gives out a format that goes something like this: /User/Directory/

Examine the contents of the directory you are in

Command: "ls"

Purpose: To show everything inside a directory

Navigate to a directory

Command: "cd"

Purpose: Type "cd _____" where _____ is where you want to go to

Tip: Use the path of the directory you want to go into

Create a file

Command: "nano *filename.(file type)*"

Examples: hello.txt, hello.sh, hello.py

Purpose:Creates a file

Print out the contents of the file

Command: "cat filename"

Purpose: Prints out whatever is inside the file.

Ex: If hello.txt has a word hello inside it, "cat hello.txt" will print out hello

Go to webminal.org and create an account

Sign up with personal email

Once logged in, go to the webminal page and go to the terminal page

Use your username and password to login

Step 1: Make directory and file

Type out "mkdir test" to make a directory called test and then enter

Type out "ls" to see if the directory is there

Create a text file using the nano command

Type whatever you want inside it, press command x, and press yes to save changes

Type out "cat" and your filename

Ex: "Cat bob.txt"

Challenge: Make a python file that prints out hello world when executed

Create a python file that prints out "hello world"

Run the file

Hint: Use google

10 minutes!

Solution: Create and run a python file

1. Create a python file by using the nano command.
2. File should be called "test.py"
3. Type "print("Hello World")" inside the test.py
4. Press Command X to save changes
5. Run the file with "python3 test.py"

Special command #1: grep

Grep "name" filename

Ex: Grep hello hello.txt

Returns all the lines that contain that "name"

Every instance of "name" will be highlighted