Notes 2: The Linux FS

- Presentation [https://docs.google.com/presentation/d/e/2PACX-1vRzi-pHAUV4x_mqsbAiiAwTtIGZcXMauEIOUfiBySC4sPr0gszaQmebawSQaj0r2gCIv4r2Dam-fgT4/pub?start=false&loop=false&delayms=3000#slide=id.g1895a62f903_0_6]
- Article [https://cis106.com/extra/thelinuxfs/]

Each Command for Navigating the File System

- pwd command `pwd` - used for displaying the current working directory
- cd command `cd` - used for changing the current working directory.
    - example `cd ~/Downloads cd /home/$USER/Documents cd ../`
- ls command `ls` - used for cdisplaying all the files inside a given directory
    - Example `ls -a ls -a ~Pictures ls -t ~/Documents la -r ~/Documents`

Define the following terms

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File system -The way files are stored and organized

pathname - Indicated the location of the file in the filesystem (like an
address).

Absolute path - The location of a file starting a root of the file system.

Relative path - The location of a file starting from the current working
directory or a directory that is located inside the current working
directory.

The difference betwwen your home directory and the home directory - My home
directory is my own personal directory where all my files are located. A
home directory is the parent directory where all the users home directory
are.

Parent directory- A directory containing one or more directories and files

Child directory - Is a directory inside another directory

Bash special characters

* `$USER` - stores the current's user username
* `$HOME` - stores the absolute path of the current user home directory
* `$PWD` - stores the absolute path of the present working directory
* `$OLDPWD` - stores the absolute path of the previous current working
direcotry.

environment variables - stores vaules of a user's environment and can be
used in commands in the shell

user defined variables - A variable is a place to store data, its like a
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box with a label. For example, if you have a lot of pens in your desk and
you place them in a box a label it pens, now the box stores your pens.

Why do we need use $ with variables in bash shell scripting? - We need to
use it to be able to access the value stored in a variable