Filesystem Operations

- Print working directory `pwd`
- Change working directory `cd GO/THERE`
  - Parent `cd ..`
  - Previous location `cd -`
  - Home `cd`
- List all files and directories; `ls -alh SOME_DIRECTORY`
- Copy file(s)/dir(s) to another location `cp -r SRC... DST`
- Move or rename file/dir `mv SRC DST`
- Create a directory with all of it's parents if needed; don't error if it already exists `mkdir -p THIS/IS/VERY/LONG/PATH`
- Remove/delete a file or a directory recursively `rm -r DIR_TO_DELETE`

File Permissions

- Change permissions on a file `chmod 744 myfile`, `chmod u+x myfile`, `chmod o-w myfile`
- Change owner of a file `chown new_owner myfile`

Data Manipulation

Although the word "file" is used, you can apply those commands to file or to the output of other commands (stdin) through pipes

- Print a file or multiple files at once `cat myfile1 myfile2`
- Print top N lines of a file (defaults to 10) `head -n N`
- Print botton N lines of a file (defaults to 10) `tail`
- Navigate a file `less`
- Count lines, words, or characters in a file `wc -l myfile`, `wc -w`, `wc -b`
- Look for some string in a file and find matching lines `grep "mystring" myfile`
- Split each line in a file based on a delimiter ("," for example) and get the nth one in each line after splitting `cut -d ' ' -f 1 myfile`

- Sort content of a file `sort`
- Get unique lines in a file `uniq`

Basics of Shell

- Clear shell output `clear` & `ctrl+l`
- Wait for x seconds `sleep x`
- Signals/Interrupts `ctrl+z`, `ctrl+c`
- Jobs & Background Jobs `&` , `bg`, `fg`, `jobs`, `disown`

Redirection and Pipes

- `|` tunnels an output of a command to be an input to another command
  - `sort myfile | uniq | wc -l`
- `>` output to a file instead of a screen and overwrite it if it exists; `head myfile > mynewfile`
- `>>` append output to a file if it exists (otherwise, create a new one); `head myfile > myoldfile`