# The Command Line

**CST 205** 

## Early days

- 1980s computers only had a so-called terminal to control them
- Graphical User
   Interfaces would come later



## Why do we still care?

- How most professional developers work
- Speeds up development
- Allows more fine-grained control

### A few more details

- Text-based
- Don't use mouse/trackpad, just keyboard
- Terminal emulators
  - MacOS —> Terminal

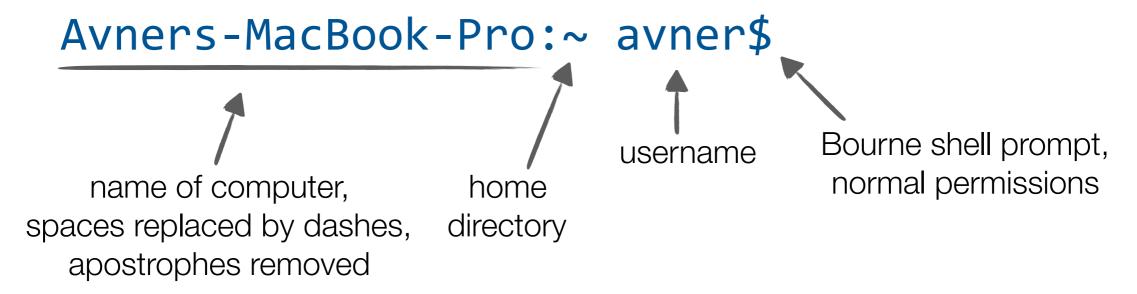


Windows —> PowerShell



## Open up your OS's terminal emulator

macOS



Windows



#### cd

The cd command allows you to change directory

## cd Desktop

You have now navigated to your Desktop

#### cd ..

- Takes you back (or up) a directory
- You can find out where you are with pwd

#### mkdir

The mkdir command will create (make) a directory.

- 1st note: mkdir does not place you in the newly-created directory.
- 2nd note: We are creating a new directory *relative* to our current directory.

### Create files

macOS

```
touch my_file.txt
touch ~/Desktop/hello.py
```

Windows PowerShell

```
New-Item my_file.txt
New-Item ~/Desktop/hello.py
```

### Path shortcuts

- The ~ refers to your home directory
- The / refers to your root directory
- Use ~ and / to get absolute paths
- The following do the same thing:

### A few more commands

- mv allows you to move or rename files
- rm allows you to remove files
- 1s allows you to list (or see) the files and/or folders in a directory
  - On macOS, 1s -a will show hidden files and folders
- cp allows you to copy files

## Lastly...

- Speed up your work by using tab to autocomplete
- View the contents of files in both PowerShell and Terminal with the cat command.
  - For example, given a file named .top\_secret.txt:

```
cat .top secret.txt
```