Shells ++

Terminal App?

- ☓ On mac, there is terminal but you should use iterm2
- ☓ On Linux, I like terminator but others are also good
- ☓ On Windows, PowerShell but the linux subsystem is probably good enough

We talked about Bash

- ✕ **B**orn **A**gain **SH**ell
- ✕ There are other shells
  - ✕ **Z SH**ell
- ✕ I like ZSH
  - ✕ SPELL CORRECTION bc Im dum
    - ✕ Auto capitalization
  - ✕ Also other stuff, but mostly that
  - ✕ Also it looks pretty

OhMyZSH

× The best version of ZSH
    × So many features
    × Themes!
    × Git support
        × You'll learn about this later
    × Makes you look like a hacker!!

ZSH vs BASH

× They are different
× There are a few subtle differences
× You might have ZSH on your computer, but Andrew and other CMU servers run BASH
× We have never had an issue switching between the two
× Just remember that they're not the same

Lets install all this stuff!!

× ohmyz.sh
× iterm2.com
× Terminator: apt it

.zshrc, .bash_profile, etc

× These files run on startup of terminal
× Themes
× Shortcuts
× Aliases
× A bunch of stuff to make your life easier

Export and Source!

× Source is the command you should run after making changes to your .zshrc file or equivalent.
  × source ~/.zshrc
× Exported variables are available to the programs within the shell, whereas non exported variables are not available to these programs
×

Shells are a language!!

× Functions are shell scripts!!!
  × So like (almost) every time your run anything on your computer it's running in the a
× You can add things to your .zshrc or .bashrc or .bash_profile (depending on your os/shell)
× These things are in "scope" when you're in terminal
  × Like variables you use throughout your shell

Let's make some stuff

× Removing is hard
× I like to yeet stuff
× So lets yeet things
  × Add to your .zshrc or equivalent file
  × `alias yeet="rm -i"`
× Remove this before you accidentally yeet -r

That's cool but let's make it better

- ✕ Maybe you've handed in trainer lab?
- ✕ You remember having to SCP stuff
    - ✕ Gross!! no one likes this
- ✕ Let's make a shell function to do this for us

GPI handin script

```
gpihandin(){
  labname=$1
  scp "andrew:~/private/path/to/gpi-labs/$labname/handin.zip" ~/path/to/where/you/want/it/to/go
}

...

$ gpihandin trainerlab
```

There is so much more!

- × Fish
- × ZSH plugins
  - × We can recommend some
- × Literally anything you want

Attendance

× tinyurl.com/functions-are-zsh-scripts