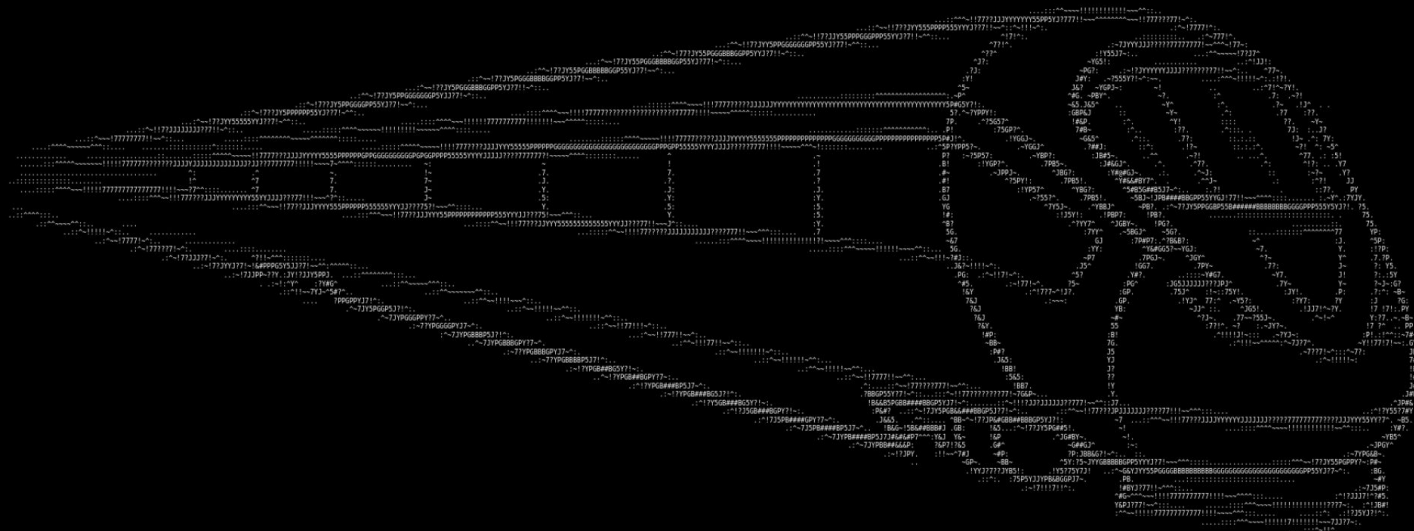Ride the command line!

Your Host: Hayden V Estes

I use the command line generally every day!

What you will learn :

* Why the command line is useful

* Basic command line usage

* How to teach yourself new tricks

Why Bother?
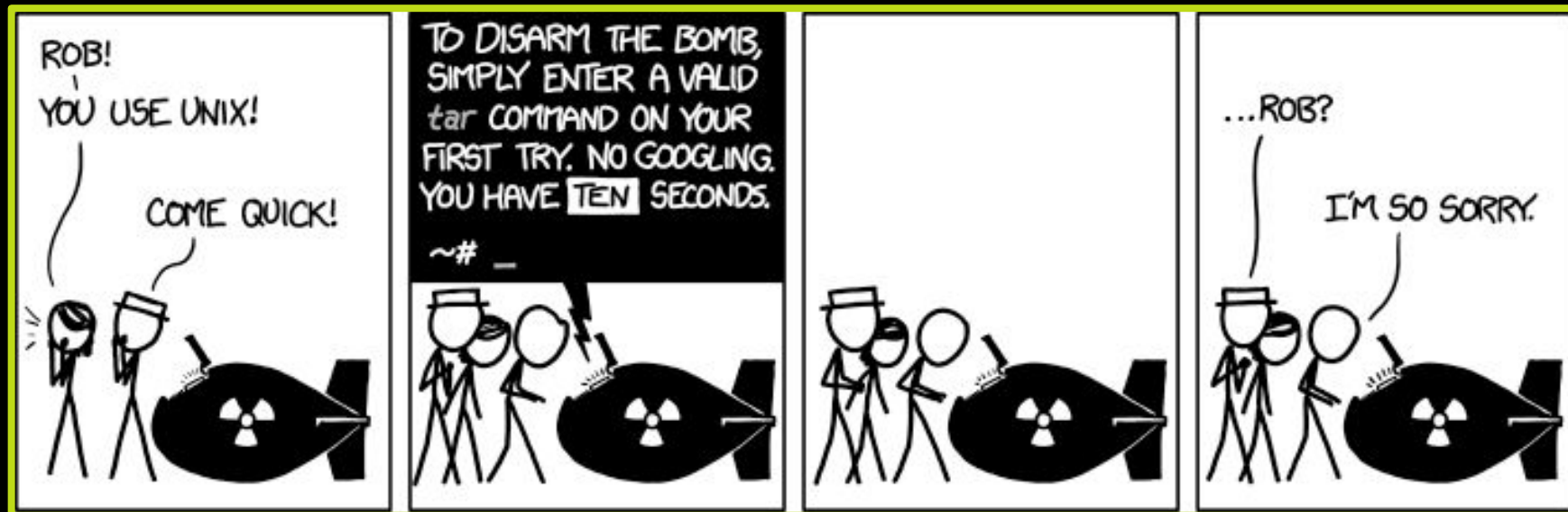
* efficient ways manipulate data (even on Windows!)

* GUIs are great, but heavily specialized

* If you ever interact with a linux server, this
will be the primary method of interaction

Computers were supposed to free us from manual labor, but how many times have you performed some task you felt sure the computer should be able to do…

but you ended up doing the work yourself by tediously working the mouse?

Your not expected to know what you are doing!

Panel 1: ROB! YOU USE UNIX! COME QUICK!

Panel 2: TO DISARM THE BOMB, SIMPLY ENTER A VALID *tar* COMMAND ON YOUR FIRST TRY. NO GOOGLING. YOU HAVE TEN SECONDS. ~# _

Panel 4: ...ROB? I'M SO SORRY.

How do I get on the command line?

SSH / WSL / Native

The Basics!

ls, cd, mv, cp, rm

Ls : liSt

```
→ ~ ls
Desktop   Documents   Downloads   Music   Pictures   Public   Science   Videos
→ ~ ls Science
class   hackathon   personal   research
→ ~ ls .
Desktop   Documents   Downloads   Music   Pictures   Public   Science   Videos
→ ~ ls ..
hayden
→ ~ █
```

cd : Change Dir

```
→ ~ ls
Desktop  Documents  Downloads  Music  Pictures  Public  Science  Videos
→ ~ cd Science
→ Science ls
class  hackathon  personal  research
→ Science ls ..
Desktop  Documents  Downloads  Music  Pictures  Public  Science  Videos
→ Science ▮
```

mv : MoVe

```
→  Science ls
class  hackathon  personal  research
→  Science mv ../Music .
→  Science ls
class  hackathon  Music  personal  research
→  Science mv Music ..
→  Science █
```

Cp : CoPy

```
→ Science ls
class   hackathon   personal   research
→ Science cp personal/ride_the_commandline/README.md .
→ Science ls
class   hackathon   personal   README.md   research
→ Science ls personal/ride_the_commandline/
bee-movie.txt   HAYDEN_minotaur.sh   HAYDEN_swarm.sh   HAYDEN_trash.sh   README.md
→ Science
```

rm : ReMove

```
→   Science ls
class   hackathon   personal   README.md   research
→   Science rm README.md
→   Science ls
class   hackathon   personal   research
→   Science ▮
```

mkdir : MaKe DIR

```
→ Science ls
class  hackathon  personal  research
→ Science mkdir bees
→ Science ls
bees  class  hackathon  personal  research
→ Science cd bees
→ bees ls
→ bees ls ..
bees  class  hackathon  personal  research
→ bees █
```

Wildcards and Pipes!

```
→ ride_the_commandline git:(main) ls
bee-movie.txt   HAYDEN_minotaur.sh   HAYDEN_swarm.sh   HAYDEN_trash.sh   README.md
→ ride_the_commandline git:(main) ls | grep .sh
HAYDEN_minotaur.sh
HAYDEN_swarm.sh
HAYDEN_trash.sh
```

```
→ stuff ls
lizard  lizardperson  person
→ stuff rm *person
→ stuff ls
lizard
→ stuff
```

Do your own research!

MAN

How to find out what you **DO** have

01. ls /usr/bin
02. whatis
03. Pressing tab
04. README.md

How to find out what you **DON'T** have

01. Search engines
02. Package manager
03. The ACM Discord

What to look for :

* What the command actually does

* What flags are available

* what is the output format

    - does it write to disk or standard output?

Resource Links in the Git repo!

https://github.com/Qeolvdxu/ride_the_commandline

Fun Commands!

Echo
"g(i,x,t,o){return((3&x&(i*((3&i)>>16?\"BY}6YB6$\":\"Qj}6jQ6%\")[t%8]+51)>>o))<<4)
;};main(i,n,s){for(i=0;;i++)putchar(g(i,1,n=i>>14,12)+g(i,s=i>>17,n^i>>13,10)+g(i
,s/3,n+((i)>>11)%3),10)+g(i,s/5,8+n-((i)>>10)%3),9));}"|gcc -xc -&&./a.out|aplay

telnet towel.blinkenlights.nl

  echo "$(fortune | cowsay)"

Great… so how do i get the certification progress?

Due : Feb 27

Great… so how do i get the ~~certification~~ PIZZA? ~~progress?~~

Due : ~~Feb 27~~ PIZZATIME