WELCOME TO CIS 241

SYSTEM-LEVEL PROGRAMMING AND UTILITIES

WHAT'S THIS CLASS ABOUT?

- Working in Linux (1st half)
- C Programming Language (2nd half)

SYLLABUS

https://github.com/cis241-w20/class-material/blob/master/syllabus.pdf

 You will need to create a github account at some point (might as well just do it now)

CIS LABS

- We are in EOS
- Everyone should have an account -- try logging in
- Want to work here? -- Get a keycard
- More info: https://github.com/cis241-w20/classmaterial/blob/master/eos-info.pdf

DON'T WANT TO HERE -> REMOTE ACCESS SSH - SECURE SHELL

- What's a shell?
- What shell am lusing? echo \$0
 - \$0 is expanded into command being run
- SSH is a way of securely connecting to a remote shell
- Try it!

TAKING A STEP BACK: BIGGER PICTURE

- Who cares?
 - Why is this important?
 - When will I need to use the shell?
- Answers:
 - Efficiency
 - Necessity
 - Only have shell access
 - Tools only available from command line

TAKING A STEP BACK: LINUX FILESYSTEM

- Hierarchical filesystem
- root directory /
- other directories branch off from root (home, tmp, etc, ...)
- home directory for each user ~
- absolute paths from / or expanded by ~
- relative from current directory

NAVIGATING THE FILESYSTEM

- mkdir make a directory
- cd change into a different directory
- 1s list files
- rm remove
- cp copy careful
- mv move/rename careful
- pwd print working directory