

Cedar Rapids Area Homeschools Cyber Defense Club

Date	2025-11-08
Presenter	Chris Leonard
Document	Student Cheatsheet



Using bash (the Bourne-Again Shell)

Help

- `cmd --help` will give help for many commands.
- `man cmd` will give very detailed help for most commands. `man` pages can be overwhelming until you get used to reading them.
- `tldr cmd` will give a one-page breakdown of some of the most common ways to use a command. You might have to install this command yourself.

Filesystem

- `pwd` → print working directory
- `ls -l` → list files (long format)
- `cd dir` → change directory
- `mkdir dir` → make directory
- `rm file` → remove file
- `rmdir dir` → remove empty directory

Viewing Files

- `cat file` → show contents
- `less file` → scroll through file
- `head -n 5 file` → first 5 lines
- `tail -n 5 file` → last 5 lines

Permissions

- `ls -l file` → see permissions
- `chmod 600 file` → owner can read/write only

Searching

- `grep pattern file` → search text
- `wc -l file` → count lines
- `sort file` → sort lines
- `uniq file` → remove duplicates

Variables & Scripts

- `name="Chris"` → set variable
- `echo $name` → print variable
- `if [condition]; then ... fi`
- `while [condition]; do ... done`