

# TERMINAL COMMANDS CHEATSHEET (Linux / macOS)

## File & Directory Basics

- `ls` — list files and directories
- `ls -l` — list with details
- `ls -a` — show hidden files
- `pwd` — show current directory
- `cd foldername` — move into a folder
- `cd ..` — go back one directory
- `mkdir foldername` — create a folder
- `rmdir foldername` — remove empty folder

## File Operations

- `touch file.txt` — create an empty file
- `cp file.txt backup.txt` — copy a file
- `mv old.txt new.txt` — rename or move a file
- `rm file.txt` — delete a file
- `rm -r folder` — delete folder + contents

## System & Packages

- `sudo apt update` — refresh package list (Debian/Ubuntu)
- `sudo apt install packagename` — install software
- `sudo apt remove packagename` — uninstall software

## Viewing Files

- `cat file.txt` — view file contents
- `less file.txt` — scroll through a file
- `head file.txt` — first 10 lines
- `tail file.txt` — last 10 lines

## Search

- `grep "text" file.txt` — search inside a file
- `find . -name "*.txt"` — find files

## Permissions

- `chmod 755 file` — change permissions
- `chown user:user file` — change owner

## Networking

- `ping google.com` — test internet connection
- `ifconfig` or `ip addr` — view network info
- `curl url` — fetch data from a URL

## Process Management

- `top` — view running processes
- `ps aux` — list processes
- `kill 1234` — stop a process

## Git Essentials

- `git init` — start a repository
- `git clone url` — clone a repo
- `git status` — check changes
- `git add .` — stage changes
- `git commit -m "message"` — commit
- `git push` — upload to remote