Linux Commands Cheat Sheet part 1

Getting around

`pwd`	where am I
`ls`	list files
`ls -la`	all files, detailed
`ls -lh`	readable file sizes
`cd dir`	enter folder
`cd ..`	up one level
`cd ~`	home folder
`cd -`	previous folder
`clear`	clear the screen

Files & folders

`mkdir name`	make folder
`mkdir -p a/b/c`	make nested folders
`touch file`	make empty file
`cp a b`	copy file
`cp -r a b`	copy folder
`mv a b`	move or rename
`rm file`	delete, no undo
`rm -r dir`	delete folder
`rm -i file`	delete, but ask first

Reading & editing

`cat file`	print whole file
`less file`	scroll it (q quits)
`head -20 file`	first 20 lines
`tail -20 file`	last 20 lines
`tail -f log`	follow it live
`nano file`	edit (Ctrl+O save, Ctrl+X exit)
`wc -l file`	count lines
`file thing`	what type is it

Searching

`grep "x" f`	find lines in a file
`grep -i "x" f`	ignore capitals
`grep -n "x" f`	with line numbers
`grep -r "x" .`	search all files below
`grep -v "x" f`	lines NOT matching
`find . -name "*.txt"`	find by name
`find . -size +10M`	find big files
`which prog`	where a program lives

Pipes & redirection

`a | b`	feed a's output to b
`cmd > file`	save output (overwrite)
`cmd >> file`	append output
`cmd 2>/dev/null`	discard errors
`cmd | tee file`	screen AND file
`sort`	sort lines
`uniq`	remove duplicates
`wc -l`	count lines

Wildcards

`*`	any characters
`?`	exactly one character
`[abc]`	any one of these
`{a,b}`	either whole option

Linux Commands Cheat Sheet part 2

Permissions

`chmod +x file`	make runnable
`chmod 644 file`	normal file
`chmod 755 dir`	normal folder/script
`chmod 600 file`	private to me
`chown u:g file`	change owner
`whoami`	who am I
`sudo cmd`	run as admin
`sudo !!`	redo last cmd with sudo

Packages (apt)

`sudo apt update`	refresh catalogue
`sudo apt upgrade`	update everything
`apt search x`	find a package
`apt show x`	details
`sudo apt install x`	install
`sudo apt remove x`	uninstall
`sudo apt autoremove`	clean leftovers

Processes & system

`ps aux`	everything running
`top / htop`	live view (q quits)
`kill PID`	stop a process
`kill -9 PID`	force stop
`pkill name`	stop by name
`df -h`	disk space
`du -sh *`	size of each item
`free -h`	memory in use
`uptime`	time since reboot

Networking

`ip a`	my addresses
`ip r`	routing / gateway
`ping -c 4 host`	test reachability
`dig domain`	DNS lookup
`curl ifconfig.me`	my public IP
`ss -tulpn`	what's listening
`wget url`	download a file

Archives

`tar -xzf f.tar.gz`	extract
`tar -czf f.tar.gz d`	create
`unzip f.zip`	extract a zip

Keyboard survival

`Tab`	autocomplete, use it
`↑ ↓`	previous commands
`Ctrl + R`	search history
`Ctrl + C`	stop running program
`Ctrl + L`	clear screen
`Ctrl + A / E`	start / end of line
`q`	quit man pages, less
`Esc :q!`	escape from vim

Getting help

`man cmd`	full manual
`cmd --help`	quick summary
`apropos word`	find related commands

If you remember only three things: Tab finishes what you're typing. Ctrl+C stops anything. sudo runs a command as administrator.