■ Linux Command Cheat Sheet

Navigation

```
pwd          # show current directory
ls           # list files
ls -l        # list with details
cd /path     # change directory
cd ~         # go to home directory
cd ..        # go up one folder
```

File & Directory Management

```
touch file.txt      # create empty file
nano file.txt       # edit file in nano
cat file.txt        # view file content
mkdir myfolder      # create directory
rm file.txt         # remove file
rm -r myfolder      # remove folder and contents
cp file.txt copy.txt # copy file
mv file.txt new.txt # rename/move file
```

File Viewing

```
less file.txt     # view file, scroll (q to quit)
head file.txt     # first 10 lines
tail file.txt     # last 10 lines
tail -f file.txt  # live monitor file (logs)
```

System Info

```
whoami            # show current user
uname -a          # show system info
df -h             # disk usage
free -h           # memory usage
uptime            # system uptime
```

Permissions

```
ls -l              # view permissions
chmod +x script.sh # make file executable
chown user:user file.txt # change file owner
```

Package Management (Debian/Ubuntu)

```
sudo apt update      # refresh package list
sudo apt upgrade     # upgrade packages
sudo apt install nano # install a package
sudo apt remove nano  # uninstall package
```

Processes

```
ps aux | grep process # find a process
top               # live process monitor
htop              # better monitor (if installed)
kill -9 PID       # kill process by ID
```

Networking

```
ping google.com    # test connectivity
curl http://url    # fetch web page
ifconfig           # show network interfaces (or `ip a`)
```

Archive & Compress

```
tar -czvf files.tar.gz folder/   # compress folder
tar -xzvf files.tar.gz           # extract folder
```

Shortcuts

```
CTRL + C  → cancel process
CTRL + D  → logout / end input
CTRL + R  → search command history
```

TAB   → auto-complete
Nano Quick Keys
CTRL + O → Save
CTRL + X → Exit
CTRL + W → Search
CTRL + K → Cut line
CTRL + U → Paste line