

Cmd --help

# LINUX

## Commands

REPL → Infinite Loop  
Shell (or) REPL Console  
R - Read  
E - Evaluate  
P - print  
L - Loop

Pwd → Print working directory  
(or)  
current working directory

Cmd --help

pwd --help

pwd -h (Invalid)

pwd → print the name of current working directory

[By default it is pwd -L]

options :

- L : print the value of PWD
- P : print without any symbolic links
- W : print Win32 Value.

Example :  
pwd -L /c/users  
pwd -P /c/users  
pwd -W C:/users

Macos : pwd --help does not work use Command man pwd.

pwd → This represents what is current directory we are actually at.

ls → All the files and sub-directories will be printed.

ls -lh

ls -l

ls -a → Shows all files including hidden files



Cd → Change directory!

Ex: cd D:

Cd → This can help you to move into a folder and move out of a folder.

Ex: cd developer → To move into developer folder

Cd .. → move out of the folder

↳ referring to one folder to move back.

Cd .. → If you want to jump one folder back from current directory.

cd ../.. → If you want to make two jumps back from current directory.

To come back to home directory:

→ cd ~ ( ~ ⇒ tilde )

cd ~ : from any directory this will help you to come back to home directory.

→ cd Developer/GIT

cd directory1/directory2/...

↳ we can actually move into internal subdirectories directly by separating them with forward slash (/).



Note: ~ → refers to home directory (cd ~)  
/ → refers to root directory (cd /)

### Relative Path

It describes location of file/folder wrt current folder

### Absolute Path

In it we mention the location from home directory (or) root directory

↓  
The folder which is not having parent folder

Cd / → root directory
Cd ~ → home directory

Note: Home directory is subfolder of root directory

→ Cat ~/main.dart  
↳ print the content of file

Note: When you give absolute path of a file or a folder that means you will give the whole path of that file/folder, whereas in relative path we do jumps wrt to current folder.

Clean → This clears the console (or) working space by actually moving you to top of current shell.



(\*)

ls

ls -lh → Similar to ls -l but it shows size in KB, MB (k, M)

ls -l → It shows more information like when file was created (date), who is owner of file, permissions of file (read, write)

ls -a → To show hidden files

ls -h → human readable format

ls --help → To see all flags of ls

### Creating files & folders:

→ mkdir <folder\_name>

↳ Helps us to create new folder

→ touch <file\_name>

↳ Helps to create a new blank file.

→ cat <file\_name>

↳ prints the whole content of file.

→ rm <file\_name>

↳ removes the file

Note: using rm we cannot remove sub folder.



→ `rm dir <sub-folder>`

↳ It removes subfolder

Note: When you perform remove operation using commands, the removed file will not be available in recycle bin too.

→ So, avoid doing remove operation using command prompt.

→ `rm dir <sub-folder>`

↳ It does not work when subfolder is not empty.

In order to delete we use:

→ `rm -r subfolder`

↳ The `-r` flag enables `rm` to recursively delete all the content of the folder and then delete the folder.

→ `rm -rf`  
`rm -rf/`

→ Try to avoid because it deletes / root directory all the files in pc gets erased.



Vim → Text editor

Linux terminal by default gives access to text editors → vim, Nano, emacs

To open:

Vim test.js / Vi newfile.txt

(Insert — i)

To exit:

Esc :q / Esc :wq

Insert — i (we can make changes)

Esc — Normal mode (we can't insert)

→ If we made changes,

you want to save

changes & exit

→ Esc :wq

→ If you don't want to save → :q!

Changes & exit

~ ~

Vim <filename>: this will create a file and then

open it in vim editor in normal mode.

In normal mode we can do changes to file but we can read & navigate it.

Now to go start making changes we need insert mode. press i. If you want to come back to normal mode press ESC.

- ESC + :q → To exit a file
- ESC + :q! → To exit a file without saving changes.
- ESC + :wq → To exit file with saving changes

#### CURSOR MOVES:

In normal mode  
L → To right  
H → To left  
J → To down  
K → To up

#### VIM adventures - game

To delete: Press ESC to go normal mode

→ dd: In normal mode it will delete the line at which cursor is exactly.

#### In normal mode:

To go to start of file → gg

To go to last line → G

w: In normal mode, it can jump one word.  
2w: " , it can jump two words

d2w: This will delete two words

yy: Copy whole line

P p: Paste whole line

yw: It copies one word

ESC: / % S / foo / bar /: In normal mode to replace all occurrences of foo with bar  
↓  
Search

Back  
Page



Vim  $\leftrightarrow$  .vimrc

My-Vim-Config  
→ repository code

- tail <file-name> → To get bunch of last lines.
- tail -n 3 <file-name> → last 3 lines
- tail -f <file-name>
- head <file-name> → To get bunch of first lines.
- head -n 10 <file-name>

- echo "vamsi" → To print on terminal
- echo "vamsi" > dump.txt → The result vamsi is dumped into file dump.txt
- echo "vamsi" > dump.txt

dd: In normal mode deletes line

dd: In insert mode it will write

Piping → Takes o/p of one command and passes as I/p to another command

→ ls | grep <folder>

The result of first command is given as input to second Command.

grep → does substring search

→ ps aux .  
Shows all the processes running in system

→ ps aux | grep chrome  
ps aux | grep mysql



# Dumping

To dump some logs into a particular file.

```
ls > test.txt | pwd > test.txt  
cat test.txt | ls > test.txt
```

> → replaced >> → append

To execute C++ code:

```
g++ permutation.cpp --std=c++14 -o run  
↓  
version binary
```

ls | grep run

./run

Clipping commands:

```
g++ file.cpp --std=c++14 -o run && ./run  
↳ This even happens in VS Code when we execute program.
```

→ ls | grep python : This will actually pass the % of ls as an input to grep, grep does substring search of python on op of ls.

→ ls > new.txt : Whatever is the result of ls will be dumped into new.txt, nothing will be printed on console. If new.txt has some content then that will be replaced.

→ ls >> new.txt : This appends the content to new.txt file.