

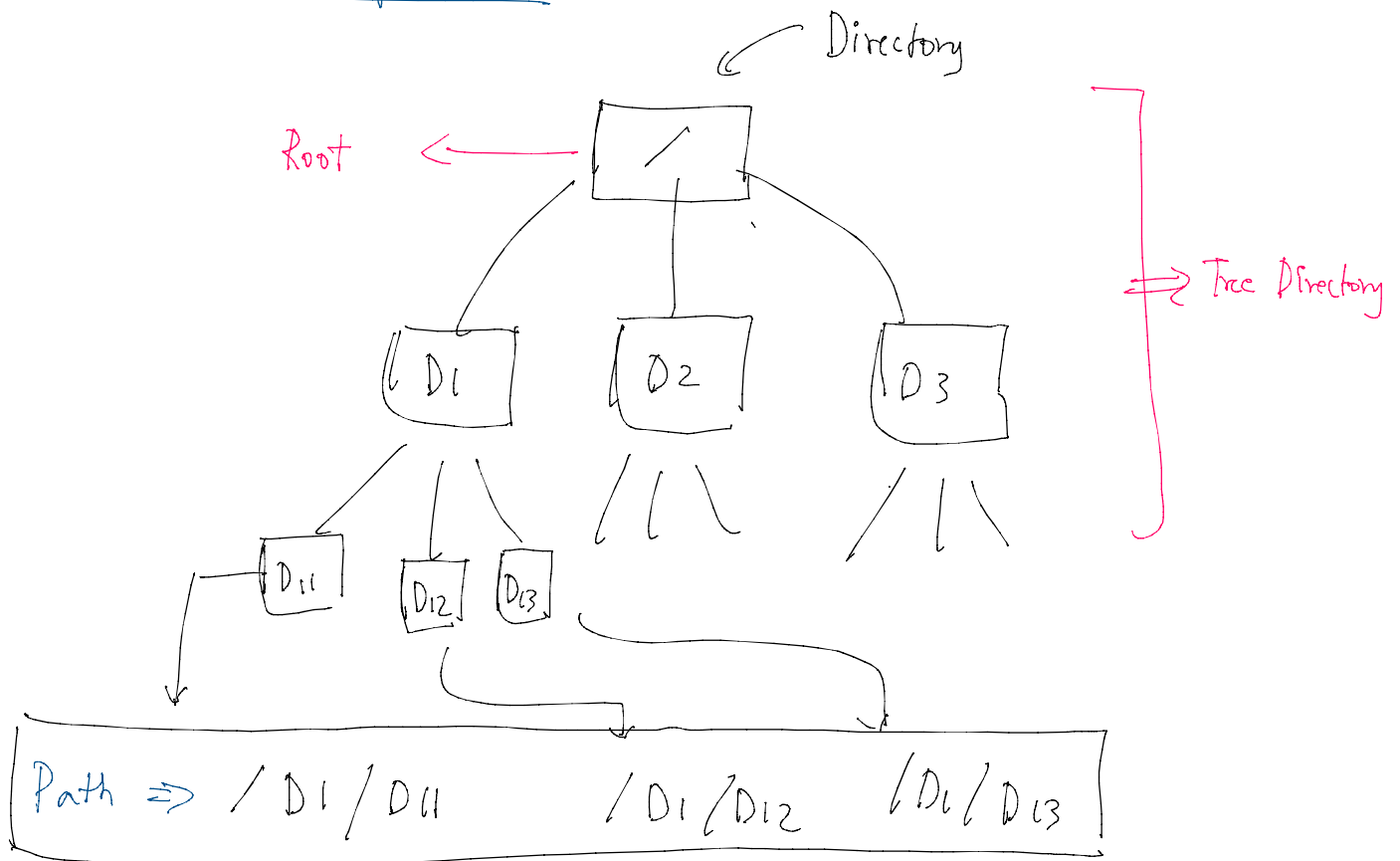
* To print anything into the console : echo.

```
rizon@rizon:~$ echo Hello Rizon!  
Hello Rizon!  
rizon@rizon:~$
```

* pwd : (print/present working directory) It tell us where you are in your computer.

```
rizon@rizon:~$ pwd  
/home/rizon  
rizon@rizon:~$
```

Tree Hierarchy for Directories:



* List Items (ls) -

Where do you want to go so for that you use ls command.

```
home/rizon
rizon@rizon:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
rizon@rizon:~$
```

* Change Directory (cd):

If you want to go to other directory we use cd command.

```
rizon@rizon:~$ cd Downloads/
rizon@rizon:~/Downloads$
```

→ You are in Download directory.

* Now if you want to go back of it to the home directory the command is:

```
rizon@rizon:~/Downloads$ cd -
/home/rizon
rizon@rizon:~$
```

cd -

* Flags:

In linux some files/folders are hidden that are not visible in the GUI, so to access that ls -a, (-a ⇒ flag)

```
rizon@rizon:~$ ls -a
.      Documents  Public
..     Downloads  snap
.bash_history .gnupg      .ssh
.bash_logout .local      .sudo_as_admin_successful
.bashrc      Music       Templates
.cache       Pictures    Videos
.config      .pki       .vscode
Desktop     .profile
```

here . , .. what is that ?

• \Rightarrow It mean it's current directory.

• \Rightarrow It mean parent directory.

```
rizon@rizon:~$ cd .  
rizon@rizon:~$ cd ..  
rizon@rizon:/home$
```

~ : Home Directory

— : Previous Directory

* List All (ls -a) :

```
rizon@rizon:~$ ls -a  
.  
..  
.bash_history  
.bash_logout  
.bashrc  
.cache  
.config  
Desktop  
Documents  
Downloads  
.gnupg  
.local  
Music  
Pictures  
.pki  
.profile  
Public  
snap  
.ssh  
.sudo_as_admin_successful  
Templates  
Videos  
.vscode
```

* List long (ls -l) :

Gives detailed impression on all the folders that present.

```
rizon@rizon:~$ ls -l  
total 36  
drwxr-xr-x 2 rizon rizon 4096 May 16 23:44 Desktop  
drwxr-xr-x 2 rizon rizon 4096 May 16 23:44 Documents  
drwxr-xr-x 3 rizon rizon 4096 May 17 08:25 Downloads  
drwxr-xr-x 2 rizon rizon 4096 May 16 23:44 Music  
drwxr-xr-x 3 rizon rizon 4096 May 17 09:12 Pictures  
drwxr-xr-x 2 rizon rizon 4096 May 16 23:44 Public  
drwx----- 7 rizon rizon 4096 May 17 08:28 snap  
drwxr-xr-x 2 rizon rizon 4096 May 16 23:44 Templates  
drwxr-xr-x 2 rizon rizon 4096 May 16 23:44 Videos  
rizon@rizon:~$
```

* Comments in Shell :

\Rightarrow Hash symbol is used.

```
rizon@rizon:~$ #This is comment!  
rizon@rizon:~$
```

* Make Directory (mkdir) :

It create new folder

* Touch :

It simple create a file.

```
rizon@rizon:~/linux_masterclass$ touch test.txt
rizon@rizon:~/linux_masterclass$ ls
test.txt
rizon@rizon:~/linux_masterclass$
```

Other way of doing

```
rizon@rizon:~/linux_masterclass$ cd ..
rizon@rizon:~$ touch linux_masterclass/b.txt
rizon@rizon:~$ ls
Desktop  Downloads      Music    Public  Templates
Documents linux_masterclass Pictures  snap    Videos
rizon@rizon:~$ ls linux_masterclass/
b.txt test.txt
```

* File and gedit :

```
rizon@rizon:~$ cd linux_masterclass/
rizon@rizon:~/linux_masterclass$ file b.txt
b.txt: empty
```

Here file b.txt says it's empty now

→ Open the b.txt and we can edit the file.

* Concatenate :

Cat : It display the file content

* history :

To know what command is executed before we use history ,

```
rizon@rizon:~/linux_masterclass$ history
1 sudo rm /var/lib/apt/lists/lock
2 sudo apt-get install chrome
3 sudo rm /var/cache/apt/archives/lock
4 sudo apt-get install chrome
5 sudo rm /var/lib/dpkg/lock
6 sudo apt-get install chrome
7 sudo apt-get install google-chrome
8 sudo apt-get update
9 sudo apt-get install "chrome"
10 sudo apt-get install "google-chrome"
11 sudo snap install p3x-onenote
12 echo Hello Rizon!
13 pwd
14 ls
15 cd Downloads/
16 cd -
17 ls -a
18 cd .
19 cd ..
20 cd desktop
```

* Exit :

ctrl + c

* Reverse Search :

ctrl + r

* Tab : Autocomplete with tab key

* Remove (rm) : To remove any file or folder

* Copy :

```

rizon@rizon:~$ ls
Desktop  Downloads      Music    Public  Templates  Videos
Documents linux_masterclass Pictures snap    test.txt
rizon@rizon:~$ cp test.txt linux_masterclass/
rizon@rizon:~$ ls
Desktop  Downloads      Music    Public  Templates  Videos
Documents linux_masterclass Pictures snap    test.txt
rizon@rizon:~$ cd linux_masterclass/
rizon@rizon:~/linux_masterclass$ ls
b.txt test.txt
rizon@rizon:~/linux_masterclass$

```

* Move : To move the file from one location to another location (mv)

} test is not present as it moved it into linux_masterclass

* Relative and Absolute Path:

Relative Path:

Absolute Path:

linux-masterclass directory

↳ 2 path

Absolute path

Relative path

from home directory to linux-masterclass

* rm dir: Remove the directory.

* Creating directory with subdirectory:

OR (In one line `mkdir -p` →)

Remove Recursively: (`rm -rv`)

```
rizon@rizon:~$ mkdir linux_masterclass
rizon@rizon:~$ ls
Desktop  Downloads      Music   Public  Templates
Documents linux_masterclass Pictures snap    Videos
rizon@rizon:~$ cd linux_masterclass/
rizon@rizon:~/linux_masterclass$ touch a.txt
rizon@rizon:~/linux_masterclass$ cd ..
rizon@rizon:~$ rmdir linux_masterclass/
rmdir: failed to remove 'linux_masterclass/': Directory not empty
rizon@rizon:~$
```

* Here you can see that you cannot remove the folder as it's not

empty.

o to tackle that we have `rm -r`

```
rizon@rizon:~$ rm -r linux_masterclass/  
rizon@rizon:~$ ls  
Desktop Documents Downloads Music Pictures Public snap Templates Videos  
rizon@rizon:~$
```

* Find: Finding files and direction. (`find ~ -name`)

* But incase you just know the name of the file, not the extension.
so for that `find ~ -name a.*`

† Now you want to list the file of the particular extension
`find ~ -name *.txt`

* Manual (man): Show the entire documentation of the 'id' command

 `man find`

↳ for all the command it's available.

* whatis : Short description of the command.