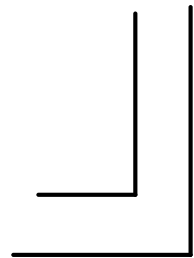
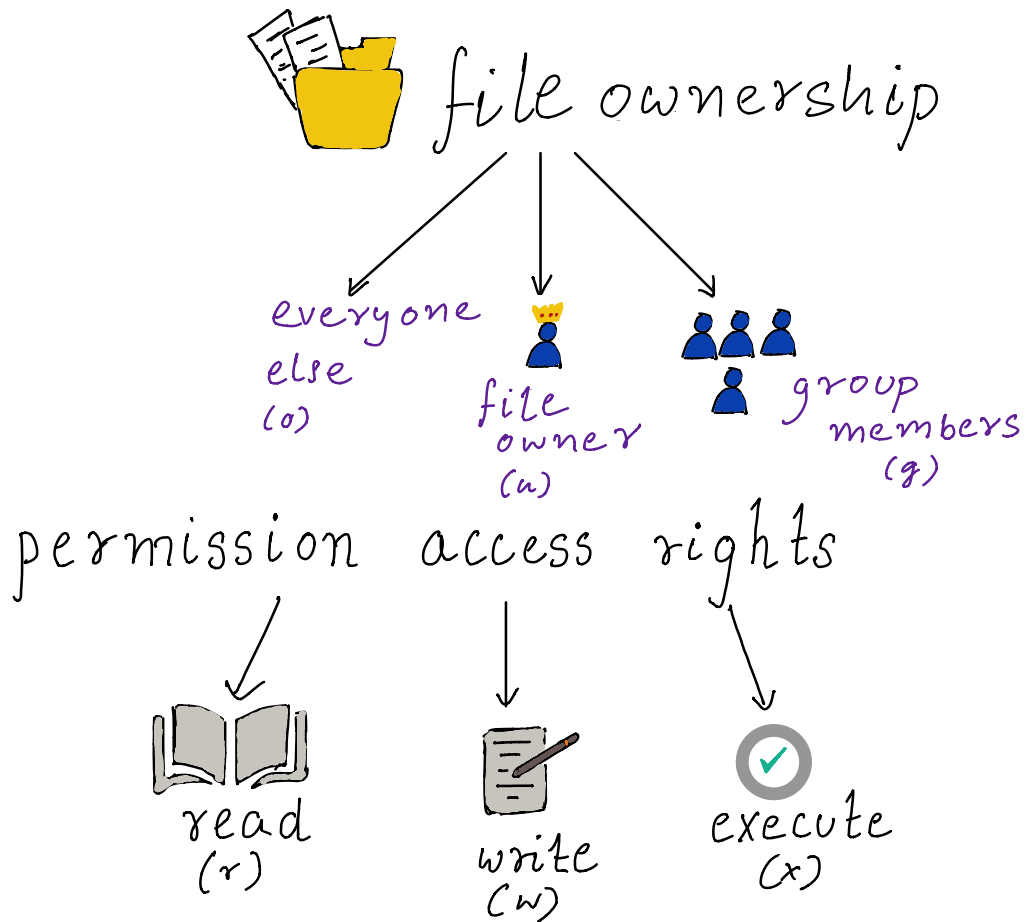


Chemod

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In linux,

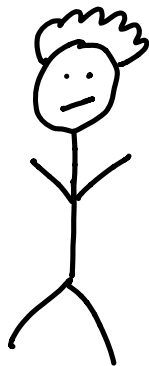
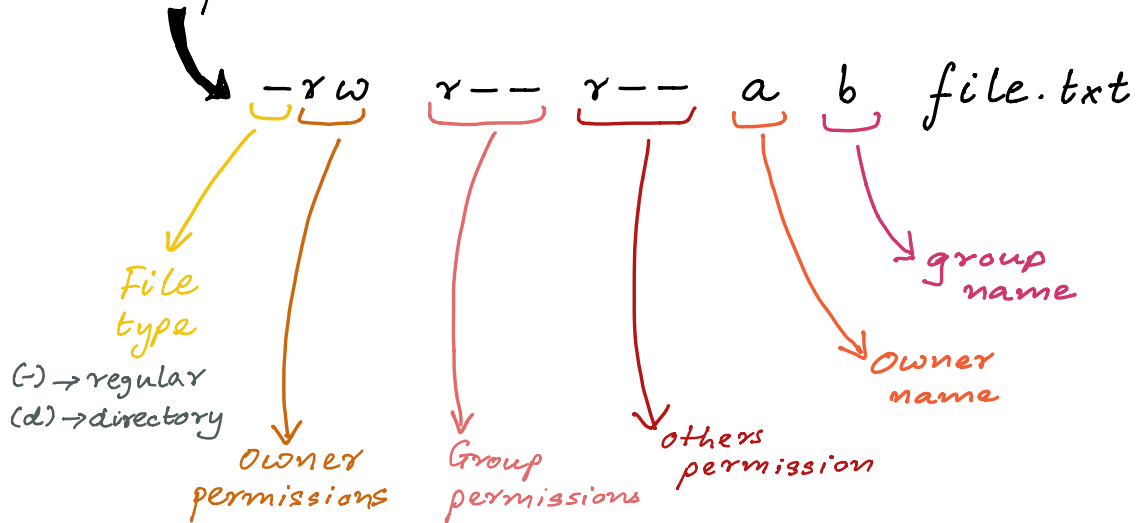


- ★ each file is associated with a file ownership and is assigned a permission access right

file permissions can be viewed using the command

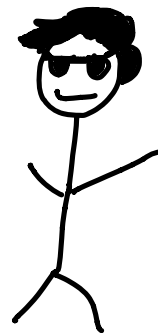
```
$ ls -l file.txt
```

output



So how do we change the permissions on a file ?!

chmod will help !!



chmod helps in changing the access mode/permissions on a file ♥

## Syntax:

chmod [options][reference][operator][mode] file

-R ↪ Recursively change files and directories' permissions

[operator]

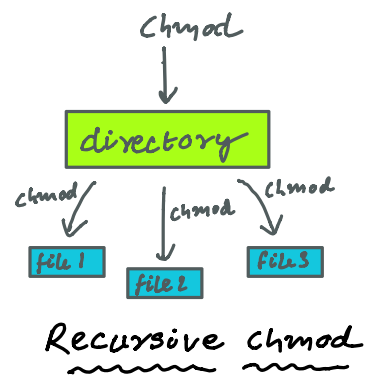
(+) ↪ Adds specified mode to user

(-) ↪ Removes specified mode from user

= ↪ To Assign specified mode for user



There are various methods to use chmod



# Symbolic Method

 Before


-rwx rw- r-- A B file.c




Command

```
$ chmod u-wx file.c
```

 After


   
-r-- rw- r-- A B file.c


 u-wx


removing write and execute permissions from the file owner (u)

★ a  $\rightsquigarrow$  all users; owner (u), group (g) and others (o)

# Numeric Method

 read (r)  $\rightsquigarrow$  (100)<sub>2</sub> = 4

 write (w)  $\rightsquigarrow$  (010)<sub>2</sub> = 2

 execute (x)  $\rightsquigarrow$  (001)<sub>2</sub> = 1

no permission  $\rightsquigarrow$  0

```
$ chmod 760 file.c
```

Gives owner (<sup>r</sup>4 + <sup>w</sup>2 + <sup>x</sup>1) = 7 ; r, w, x permissions  
group (<sup>r</sup>4 + <sup>w</sup>2) = 6 ; r, w permissions  
others (0); no permissions

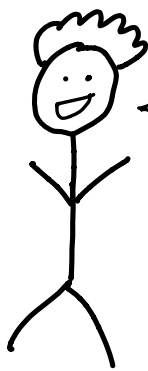
# Reference File method

set *similar* permissions as those on a reference file !

```
$ chmod --reference=reffile.c file.c
```

reference  
file

main  
file



Great!  
Now I know how  
to change permissions  
on a file !

Look at  
*man chmod*  
for more  
information !

