

Last

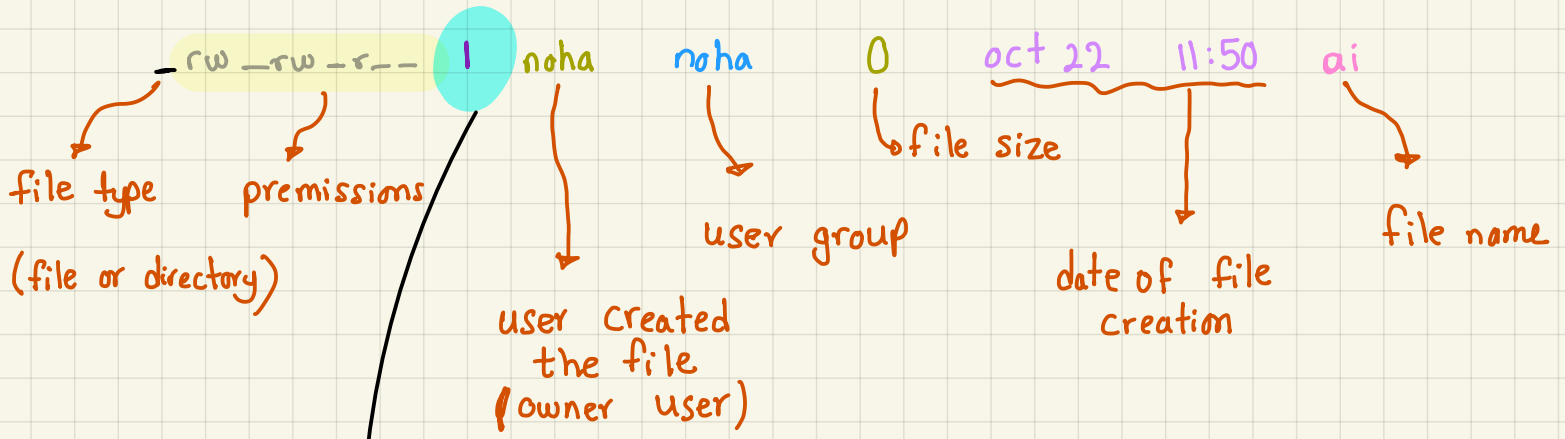
Day

Created by : Israa Abdelghany

LinkedIn : [www.linkedin.com/in/israa-abdelghany-4872b0222](https://www.linkedin.com/in/israa-abdelghany-4872b0222)

GitHub : <https://github.com/IsraaAbdelghany9>

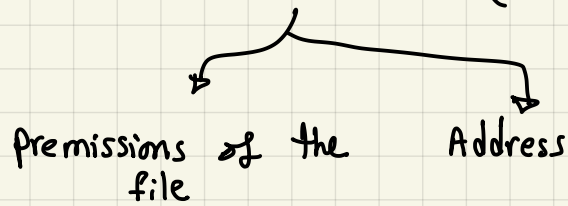
ls -l → show all data about all files or folders in the folder I am in



Today's discussion  
(Number of links)

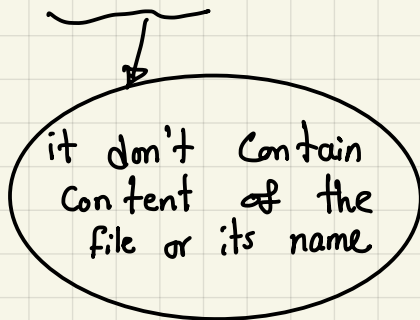
\* the address is a Inode number  
↳ (Index node)

\* Linux stores the administrative data in (Inode)



\* each folder has Inode table

\* Inode table has info about files



\* `cd ..` ⇒ change to parent

\* `ls -i` ⇒ inode number + name of the

\* each file has its own inode which have full info about it  
except the name of the file and can access its content.

the folder have an Inode table that have the name of the file

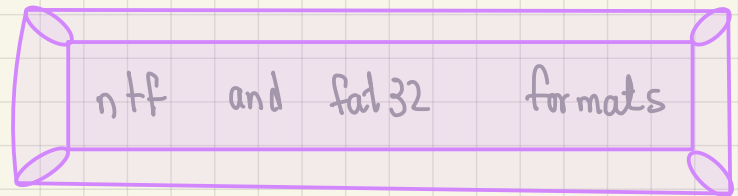
`ls -i` ⇒ give me data of inode from media

`ls -l` ⇒ all info from inode table and inode of the file

`ls -il` ⇒ both

`ls -id` ⇒ inode of directories only

\* When you create a file you give it a name basically hard link



\* ln → to create a link

\* ln duck duckline

\* ls -li duck\*

\* cat duck = cat duckline

\* echo "iti" >> duckline

\* cat duck = cat duckline

\* ls -l ⇒ will show that the number corrected from 1 to 2

\* meta data is data about data

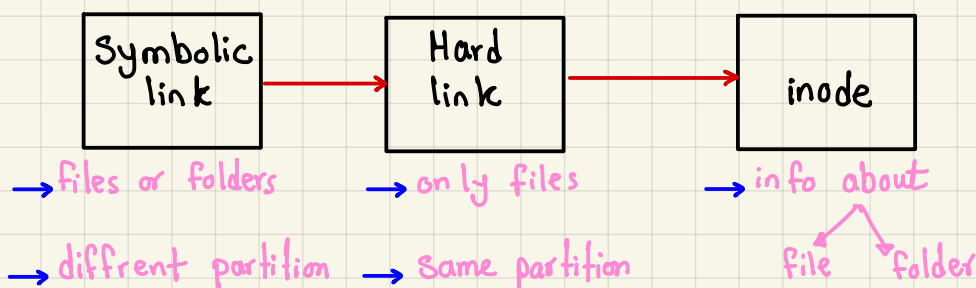
└─ part from the media

\* ln duckline duck

\* copy creates a new copy (physical) for the file with new inode table and not changing the number of links

\* hard link is the name of the file

\* mv change only the hardlink to rename the file



ls -li duck\*

ln -s duck duck symbolic

ls -l duck symbolic



lrwxrwxrwx

- symbolic links don't change the number of links

\* tar -cvf mydata.tar duck moved duck → files in .tar

\* tar -xvf mydata.tar → extract data

v → viewing

f → specify which file to put in or extract from

c → copy

x → extract

\* tar -rvf mydata.tar myfile → add myfile to mydata.tar

\* tar -xvf mydata.tar duck → will extract only duck file not all

\* tar -uvf mydata.tar bye password ⇒ will update the only file that has been changed (updated)

\* tar -tvf mydata.tar → will view the content (may be in 2 files but if extract will be only 1 file)  
t → list

\* if folder has folder inside it bzip2 and gzip what to use?

compress command?

find vs locate



\* package manager ⇒ apt

# zcat

③ -mtime

find /etc -u

⑥ -type d

⑧ file abc  $\Rightarrow$  what is the type of abc

⑩ Cmp diff

byte // ~~elab~~

⑫ if same partition it will be okay if no it will not