



NOPNOP
LABS

nopnoplabs.com
github.com/nopnoplabs

#vi

i	Enter insert mode
ESC	Enter command mode
O	insert new line before
o	insert new line after
:w	save file
:x	save and exit
:q	exit (no changes)
:q!	exit ignoring changes
/pattern	search for a pattern
n	find next occurrence
x	delete a single char.
D	delete the rest of the line
dd	delete the current line
yy	yank (copy) line
yw	yank a word
y\$	yank to end of a line
h	move left 1 char.
j	move down 1 char.
k	move up 1 char.
l	move right 1 char.
w	move forward 1 word
b	move to start of word
e	move to end of word
^	move to begining to word
\$	move to end of line
G	move to last line
gg	move to first line

#search

grep	match pattern
locate	locate using db
find	search for files
man	manual pages
apropos	search for keywords

#connections

scp	secure file copy
rsync	remote file copy

#files

ls	list directory
pwd	print working directory
cp	copy file
mv	move file
mkdir	make directory
rm	remove file or directory
ln	make link
touch	create file
cat	concatenate files
less	displace a page at a time
head	first 10 lines of a file
tail	last 10 lines of a file
file	identify a file type

#redirection

>	redirect STDOUT
>>	append STDOUT
2>	redirect STDERR
<	redirect STDIN
	pass STDOUT to STDIN

#permissions

chmod	change permission
chown	change owner
chgrp	change group
sudo	elevate privileges

#archives

tar	archiving utility
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#output

sort	sort lines of text
uniq	report or omit repeats
cut	remove sections
diff	compare files line by line
split	split a file into pieces
patch	apply a diff to an original

#processes

ps	snapshot of processes
top	display processes
htop	process viewer
kill	send signal to process
&&	logical AND operator
bg	background a process
fg	bring process forward

#system

hostname	show hostname
w	who is logged in
free	free memory
watch	run at interval
ifconfig	interface config
df	disk usage

#users

id	show user id
whoami	show user
useradd	add a user
userdel	remove a user
usermod	modify a user

#git

git init	initialize directory
git clone	retrieve repository
git commit	commit staged
git push	transmit local repo
git pull	fetch and merge
git add	add a file
git reset	clear staging
git rm	delete a file
git mv	change file path
git status	show modified files
git diff	diff of changed files
git config	user/email/etc.
git branch	new branch
git checkout	switch branch & checkout
git merge	merge history to current
git log	show all commits in branch

git clone https://github.com/nopnoplabs/intro_to_linux_cli



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file system

/	root folder
/bin	executable files
/boot	static bootloader
/dev	device files for hardware
/etc	system config files
/home	home directories
/lib	shared library files
/media	removable media
/mnt	temporary mountpoint
/opt	optional files
/root	home folder for root user
/sbin	system binary files
/usr	shareable read-only files

file permissions

number	permission
0	none
1	execute
2	write
3	write and execute
4	read
5	read and execute
6	read and write
7	read, write and execute

letter	permission
r	read
w	write
x	execute

letter	meaning
u	user
g	group
a	all

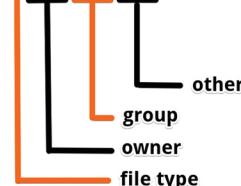
wildcards

- * matches zero or more characters
- ? matches any one character

```
$ls
elaine frank helen kramer newman
estelle george jerry morty
$
$ls e*
elaine estelle
$
$ls *e*
elaine estelle george helen jerry kramer newman
$
$ls *e
elaine estelle george
$
$ls [g-k]*
george helen jerry kramer
```

files

```
ls -l frank
-rwxr-xr-x 1 jeremy staff 60 Aug 16 17:59 frank
```



```
chmod 777 frank && ls -la frank
```

```
-rwxrwxrwx 1 jeremy staff 60 Aug 16 17:59 frank
```

```
chmod 111 frank && ls -la frank
```

```
---x---x 1 jeremy staff 60 Aug 16 17:59 frank
```

```
chmod 444 frank && ls -la frank
```

```
-r--r--r-- 1 jeremy staff 60 Aug 16 17:59 frank
```

```
chmod 222 frank && ls -la frank
```

```
--w--w--w- 1 jeremy staff 60 Aug 16 17:59 frank
```

variables

env	show variables
HOME	users home directory
PATH	used to find programs
PS1	command line prompt
PS2	secondary prompt
PWD	current working directory
SHELL	current running shell
\$\$	process ID of current shell

```
#set a variable named MYVAR
MYVAR="hola"
```

```
#print a variable
echo $MYVAR
```

bash

CTRL-C	stop current program
CTRL-Z	background program
CTRL-A	start of line
CTRL-E	end of line
CTRL-U	cut from start of line
CTRL-K	cut to end of line
CTRL-R	search history
!!	repeat last command

screen

screen -list	current screen sessions.
CTRL-A	activate commands
CTRL-A c	create a new instance
CTRL-A n	next instance
CTRL-A p	previous instance
CTRL-A "	show current instances
CTRL-A A	rename current instance



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