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CHEAT SHEET WORLD

> All > Programming > Unix / Linux Cheat Sheet

UNIX / LINUX CHEAT SHEET**FILE SYSTEM**

`ls` — list items in current directory
`ls -l` — list items in current directory and show in long format to see permissions, size, and modification date
`ls -a` — list all items in current directory, including hidden files
`ls -F` — list all items in current directory and show directories with a slash and executables with a star
`ls -d .*` — list all items in directory dir
`cd .*` — change directory to dir
`cd ..` — go up one directory
`cd /` — go to the root directory
`cd ~` — go to your home directory
`cd ..` — go to the last directory you were just in
`pwd` — show present working directory
`mkdir dir` — make directory dir
`rm file` — remove file
`rm -r dir` — remove directory dir recursively
`cp file1 file2` — copy file1 to file2
`cp -r dir1 dir2` — copy directory dir1 to dir2 recursively
`mv file1 file2` — move (renames) file1 to file2
`ln -s file1 link` — create symbolic link to file1
`touch file` — create or update file
`cat file` — output the contents of file
`less file` — view file with page navigation
`head file` — output the first 10 lines of file
`tail file` — output the last 10 lines of file
`tail -f file` — output the contents of file as it grows, starting with the last 10 lines
`vi file` — edit file
`alias name 'command'` — create an alias for a command

COMPRESSION

`tar cf file.tar file1 file2` — create a tar named file.tar containing files
`tar -tf file.tar` — extract the files from file.tar
`tar -cf file.tar.gz file1 file2` — create a tar with gzip compression
`tar -xvf file.tar.gz` — extract a tar using gzip
`gzip file` — compresses file and renames it to file.gz
`gunzip -d file.gz` — decompresses file.gz back to file

SYSTEM

`shutdown -h now` — shut down machine
`reboot` — restart machine
`date +` — show the current date and time
`whoami` — who you are logged in as
`finger user` — display information about user
`man command` — show the manual for command
`df` — show disk usage
`du` — show directory space usage
`free` — show memory and swap usage
`which app` — show possible locations of app
`which app` — show which app will be run by default

NETWORKING

`wget file` — download a file
`curl file` — download a file
`scp user@host:file dir` — secure copy a file from remote server to the dir directory on your machine
`scp -f file user@host:dir` — secure copy a file from your machine to the dir directory on a remote server
`rsync -r user@host:dir/ file` — secure copy the directory dir from remote server to the directory dir on your machine
`ssh user@host` — connect to host as user
`ssh -p port user@host` — connect to host on port as user
`ssh-keygen -t rsa` — add your key to host for users to enable a key-based or passwordless login
`ping host` — ping host and output results
`whois domain` — get information for domain
`dig domain` — get DNS information for domain
`dig -x host` — reverse lookup host
`lsof -i :1337` — list all processes running on port 1337

SHORTCUTS

`ctrl+a` — move cursor to beginning of line
`ctrl+e` — move cursor to end of line
`ctrl+f` — move cursor forward 1 word
`ctrl+b` — move cursor backward 1 word

PROCESS MANAGEMENT

`ps` — display your currently active processes
`top` — display all running processes
`kill pid` — kill process id pid
`kill -9 pid` — force kill process id pid

PERMISSIONS

`ls -l` — list items in current directory and show permissions
`chmod u=rwx file` — change permissions of file to the user's permissions, g is the group's permission and o is everyone else's permissions. The value and o can be any number between 0 and 7.
 7 — full permissions.
 6 — read and write only
 5 — read and execute only
 4 — read only
 3 — write and execute only
 2 — write only
 1 — execute only
 0 — no permissions
`chmod 600 file` — you can read and write to file
`chmod 700 file` — you can read, write, and execute file
`chmod 644 file` — you can read and write, anyone else can only read - good for web pages
`chmod 755 file` — you can read, write, and execute - good for programs that you want to share

SEARCHING

`grep pattern file` — search for pattern in file
`grep -r pattern dir` — search recursively in dir
`grep -n pattern dir` — search recursively in dir and show the line number found
`grep -n pattern dir --include=ext` — search recursively for pattern in dir and only search in ext extension
`command | grep pattern` — search for pattern in output of command
`find file` — find all instances of file in real life
`locate file` — find all instances of file using database built from the updatedb command. Much faster than find
`sed -i "s/day/night/g" file` — find all occurrences of day in a file and replace them with night. Substitution is global - sed -i supports regular expressions

Cheatography

VI Editor Cheat Sheet

by Eric Grivier (erog) via cheatography.com/69/cs/270/

Cutting	
x	Exit, saving changes
q!	Exit as long as there have been no changes
ZZ	Exit and save changes if any have been made
q	Exit and ignore any changes
Inserting Text	
i	Insert before cursor
a	Append after cursor
A	Append after line
o	Open a new line after current line
O	Open a new line before current line
r	Replace one character
R	Replace many characters
Motion	
h	Move left
j	Move down
k	Move up
l	Move right
w	Move to next word
b	Move to previous word
W	Move to next blank delimited word
B	Move to the beginning of block defined word
e	Move to the end of word
E	Move to the end of block defined word
g	Move to next line
G	Move to the end of the line
gg	Move to the first line of the file
G	Move to the last line of the file
gG	Move to nth line of the file
ggG	Move to nth line of the file
Deleting Text	
x	Delete character to the right of cursor
X	Delete character to the left of cursor
D	Delete to the end of the line
dd	Delete current line
dd	Delete current line
Yanking Text	
yy	Yank the current line
yy	Yank the current line
Replacing Text	
x	Delete character to the right of cursor according to flags.
X	Delete character to the left of cursor according to flags.
d	Delete current line according to flags.
dd	Delete current line according to flags.
Ranges	
range	Range : Lines n-m
.	Range : Current line
.	Range : Last line
'c	Range : Marker c
'c	Range : All lines in file
'c	Range : All lines that contain pattern

By Eric Grivier (erog)

cheatography.com/69/cs/270/

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Using Vim for VI Key - Cheat Sheet

The Vim Editor
 Vim is a highly popular editor for editing text files. It is a command-line editor, which means that you type commands to tell Vim what to do. Vim has two modes: Insert mode and Normal mode. The normal mode is the default mode where the cursor movement and text deletion and pasting occur. Insert mode begins upon entering an insertion or change command. Vim also has a visual mode, which is a copy-and-paste mode (when you cut, for example by typing `yc`). Most commands execute as soon as you type them except for "colon" commands which execute when you press the return key.

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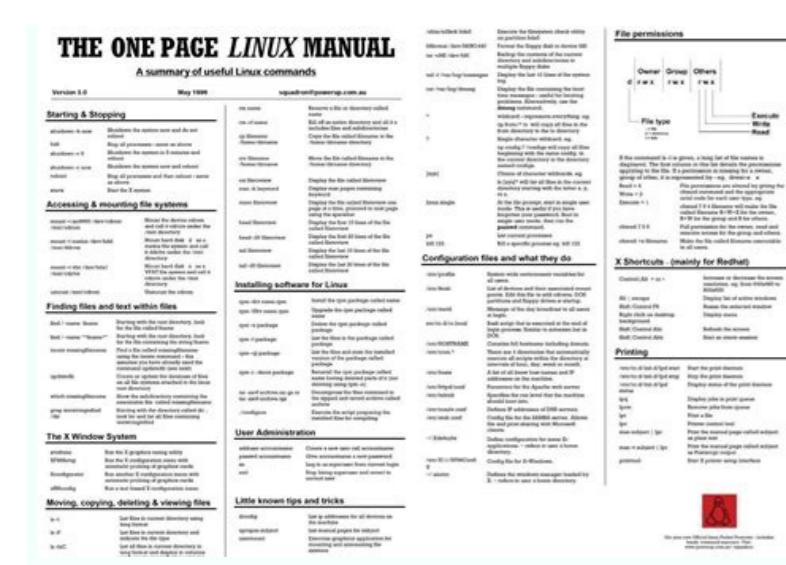
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