

CHEAT SHEET WORLD

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UNIX / LINUX CHEAT SHEET

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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 dir` — list all items in directory dir
`cd dir` — change directory to dir
`cd ..` — go up one directory
`cd /` — go to the root directory
`cd ~` — go to 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 (rename) file1 to file2
`ln -s file link` — create symbolic link to file
`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
`vim file` — edit file
`alias name 'command'` — create an alias for a command

COMPRESSION

`tar cf file.tar files` — create a tar named file.tar containing files
`tar xf file.tar` — extract the files from file.tar
`tar czf file.tar.gz files` — create a tar with Gzip compression
`tar xzf file.tar.gz` — extract a tar using Gzip
`gzip file` — compresses file and renames it to file.gz
`gzip -d file.gz` — decompresses file.gz back to file

SYSTEM

`shutdown` — 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
`whereis 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 file user@host:dir` — secure copy a file from your machine to the dir directory on a remote server
`scp -r user@host:dir dir` — 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-copy-id user@host` — add your key to host for user to enable a keyed 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 tcp:1337` — list all processes running on port 1337

SHORTCUTS

`ctrl+a` — move cursor to beginning of line
`ctrl+f` — move cursor to end of line
`alt+f` — move cursor forward 1 word
`alt+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 ugo file` — change permissions of file to u
u is the user's permissions, g is the group's permissions and o is everyone else's permissions. The values of u 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 - good for files
`chmod 700 file` — you can read, write, and execute good for scripts
`chmod 644 file` — you can read and write, and everyone else can only read - good for web pages
`chmod 755 file` — you can read, write, and execute and everyone else can read and execute - good for programs that you want to share

SEARCHING

`grep pattern files` — search for pattern in files
`grep -r pattern dir` — search recursively for pattern in dir
`grep -rn pattern dir` — search recursively for pattern in dir and show the line number found
`grep -r pattern dir --include='*.ext'` — search recursively for pattern in dir and only search in files with .ext extension
`command | grep pattern` — search for pattern in the output of command
`find file` — find all instances of file in real system
`locate file` — find all instances of file using index 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 - s means substitute and g means global - sed also supports regular expressions

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