# Cheatography

# Linux Command Line Cheat Sheet

by Dave Child (DaveChild) via cheatography.com/1/cs/49/

Bash Commands	
uname -a	Show system and kernel
head -n1 /etc/issue	Show distribution
mount	Show mounted filesystems
date	Show system date
uptime	Show uptime
whoami	Show your username
man <i>command</i>	Show manual for command

Bash Shortcuts	
CTRL-c	Stop current command
CTRL-z	Sleep program
CTRL-a	Go to start of line
CTRL-e	Go to end of line
CTRL-u	Cut from start of line
CTRL-k	Cut to end of line
CTRL-r	Search history
!!	Repeat last command
!abc	Run last command starting with abc
!abc:p	Print last command starting with abc
!\$	Last argument of previous command
ALT	Last argument of previous command
!*	All arguments of previous command
^abc^123	Run previous command, replacing <i>abc</i> with <i>123</i>

Bash Variables	
env	Show environment variables
echo <i>\$NAME</i>	Output value of <i>\$NAME</i> variable
export NAME=value	Set \$NAME to value
\$PATH	Executable search path
\$HOME	Home directory
\$SHELL	Current shell

cmd < file

Input of cmd from file

cmd1 <(cmd2)

Output of cmd2 as file input to cmd1

Standard output (stdout) of cmd to file

cmd > /dev/null

Discard stdout of cmd

cmd >> file

Append stdout to file

cmd 2> file

Error output (stderr) of cmd to file

cmd 1>&2

stdout to same place as stderr

cmd 2>&1

stderr to same place as stdout

Directory Operations	
pwd	Show current directory
mkdir <i>dir</i>	Make directory dir
cd dir	Change directory to dir
cd	Go up a directory
Is	List files

Is Options	
-a	Show all (including hidden)
-R	Recursive list
-r	Reverse order
-t	Sort by last modified
-S	Sort by file size
-1	Long listing format
-1	One file per line
-m	Comma-separated output
-Q	Quoted output

Search Files	
grep pattern files	Search for pattern in files
grep -i	Case insensitive search
grep -r	Recursive search
grep -v	Inverted search
grep -o	Show matched part of file only
find /dir/ - name name*	Find files starting with name in dir
find /dir/ -user name	Find files owned by name in dir
find /dir/ - mmin num	Find files modifed less than <i>num</i> minutes ago in <i>dir</i>
whereis command	Find binary / source / manual for command

Find file (quick search of system

touch file1

locate file

Create file1

cat file1 file2

Concatenate files and output

index)

View and paginate file1

file file1

Get type of file1

cp file1 file2

Copy file1 to file2

mv file1 file2

Move file1 to file2

rm file1

Delete file1

head file1

Show first 10 lines of file1

Files	
Ctrl-R	Read file
Ctrl-O	Save file
Ctrl-X	Close file
Cut and Paste	
ALT-A	Start marking text
CTRL-K	Cut marked text or line
CTRL-U	Paste text
Navigate File	
ALT-/	End of file
CTRL-A	Beginning of line
CTRL-E	End of line
CTRL-C	Show line number
CTRL	Go to line number
Search File	
CTRL-W	Find
ALT-W	Find next
CTRL-\	Search and replace
More nano info at:	
http://www.nano-editor.org/docs.php	
Cayaan Chanta	d.
Screen Shortcuts	

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screen

Start a screen session.

Resume a screen session.

screen -list

Show your current screen sessions.

CTRL-A

Activate commands for screen.

CTRL-A c

Create a new instance of terminal.

Go to the next instance of terminal.

CTRL-Ap

Go to the previous instance of terminal.

CTRL-A"

Show current instances of terminals.

CTRL-A A

Rename the current instance.

More screen info at:

http://www.gnu.org/software/screen/

chmod 775 file

Change mode of file to 775

chmod -R 600 folder

Recursively chmod folder to 600

chown user:group file

Change file owner to user and group to group

cmd &> file

Every output of cmd to file

cmd refers to a command.

#### Pipes

cmd1 | cmd2

stdout of cmd1 to cmd2

cmd1 |& cmd2

stderr of cmd1 to cmd2

#### Command Lists

cmd1; cmd2

Run cmd1 then cmd2

cmd1 && cmd2

Run cmd2 if cmd1 is successful

cmd1 || cmd2

Run cmd2 if cmd1 is not successful

cmd &

Run *cmd* in a subshell

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Show last 10 lines of file1

tail -f file1

name

Output last lines of file1 as it changes

### Process Management

name

ps	Show snapshot of processes
top	Show real time processes
kill <i>pid</i>	Kill process with id pid
pkill name	Kill process with name name
killall	Kill all processes with names beginning

The first digit is the owner permission, the second the group and the third for everyone.

Calculate each of the three permission digits by adding the numeric values of the permissions below.

4	read (r)
2	write (w)
1	execute (x)

### Cheatographer



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### **Cheat Sheet**

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### Sponso

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