## The Mac Terminal Commands Cheat Sheet

COMMAND	ACTION
Shortcuts	
Tab	Auto-complete file and folder names
Ctrl + A	Go to the beginning of the line you're currently typing on
Ctrl + E	Go to the end of the line you're currently typing on
Ctrl + U	Clear the line before the cursor
Ctrl + K	Clear the line after the cursor
Ctrl + W	Delete the word before the cursor
Ctrl + T	Swap the last two characters before the cursor
Esc + T	Swap the last two words before the cursor
Ctrl + L	Clear the screen
Ctrl + C	Kill whatever you're running
Ctrl + D	Exit the current shell
Option + →	Move cursor one word forward
Option + ←	Move cursor one word backward
Option + ← Ctrl + F	Move cursor one character forward
Ctrl + B	Move cursor one character backward
Ctrl + Y	Paste whatever was cut by the last command
Ctrl + Z	Puts whatever you're running into a suspended background
	process
Ctrl +	Undo the last command
Option + Shift + Cmd + C	Copy plain text
Shift + Cmd + V	Paste the selection
exit	End a shell session
Basics	
/ (Forward Slash)	Top level directory
. (Single Period)	Current directory
(Double Period)	Parent directory
~ (Tilde)	Home directory
sudo [command]	Run command with the security privileges of the super user
nano [file]	Opens the Terminal editor
open [file]	Opens a file
[command] -h	Get help about a command
man [command]	Show the help manual of the command
Change Directory	
cd	Home directory
cd [folder]	Change directory, e.g. cd Documents
cd ~	Home directory
cd/	Root of the drive
cd -	Previous directory or folder you last browsed
pwd	Show your working directory
cd	Move up to the parent directory
cd/	Move up two levels
List Directory Contents	
ls	Display the name of files and subdirectories in the directory
ls -C	Force multi-column output of the listing
	List all entries including those with .(period) and(double
ls -a	period)
ls -1	Output the list of files in one entry per line format
	Display a / (slash) immediately after each path that is a
ls -F	directory, * (asterisk) after executable programs or scripts,
10 1	and @ after a symbolic link
ls -S	Sort files or entries by size
13 -0	OUT THOS OF STRIES BY SIZE

List in a long format. Includes file mode, owner and group name, date and time file was modified, pathname, and ls -l Is -I / List of the file system from root with symbolic links List the files sorted by time modified (most recent first) ls -lt Long listing with human readable file sizes in KB, MB, or Is -Ih Is -lo List the file names with size, owner, and flags List detailed directory contents, including hidden files ls -la File Size and Disk Space List usage for each subdirectory and its contents Human readable output of all files in a directory du -sh [folder] Display an entry for each specified file du -s List files and folders, totaling the size including the du -sk\* | sort -nr subfolders. Replace sk\* with sm\* to list directories in MB df -h Calculate your system's free disk space Calculate free disk space in powers of 1,000 (as opposed df -H to 1,024) **File and Directory Management** Create new folder named <dir> mkdir <dir> mkdir -p <dir>/<dir> Create nested folders mkdir <dir1> <dir2> <dir3> Create several folders at once mkdir "<dir>" Create a folder with a space in the filename rmdir <dir> Delete a folder (only works on empty folders) rm -R <dir> Delete a folder and its contents touch <file> Create a new file without any extension Copy a file to the folder cp <file> <dir> cp <file> <newfile> Copy a file to the current folder cp <file>~/<dir>/<newfile> Copy a file to the folder and rename the copied file Copy a folder to a new folder with spaces in the filename cp -R <dir> <"new dir"> Prompts you before copying a file with a warning overwrite cp -i <file><dir> message cp <file1> <file2> <file3>/Users/<dir> Copy multiple files to a folder Copy the contents of a folder to new folder. In here "-V" ditto -V [folder path][new folder] print a line of status for every file copied Delete a file (This deletes the file permanently; use with rm <file> caution.) rm -i <file> Delete a file only when you give confirmation rm -f <file> Force removal without confirmation rm <file1> <file2> <file3> Delete multiple files without any confirmation mv <file> <newfilename> Move/rename Move a file to the folder, possibly by overwriting an existing mv <file> <dir> mv -i <file> <dir> Optional -i flag to warn you before overwriting the file mv \*.png ~/<dir> Move all PNG files from current folder to a different folder **Command History** Ctrl + R Search through previously used commands Shows the previous commands you've typed. Add a history n number to limit to the last n items Execute the last command typed that starts with a value ![value] Execute the last command typed **Permissions** Is -Id Display the default permission for a home directory

particular folder

Is -ld/<dir>

chmod 755 <file>

Display the read, write, and access permission of a

Change the permission of a file to 755

chmod -R 600 <dir>

chown <user>:<group> <file>

**Processes** 

ps -ax

ps -aux

top

top -ocpu -s 5 top -o rsize

kill PID

ps -ax | grep <appname>

Network ping <host> whois <domain> curl -O <url/to/file> ssh <username>@<host>

scp

<file><user>@<host>:/remote/path

arp -a

ifconfig en0

traceroute [hostname]

Homebrew brew doctor

brew help

brew install <formula>|<cask> brew uninstall <formula>|cask>

brew list --formula brew list --cask

brew deps <formula>|<cask> brew search text|/regex/

brew upgrade <formula>|<cask>brew outdated <formula>|<cask>

brew outdated --formula brew outdated --cask brew pin [installed\_formula] brew unpin [installed\_formula]

brew cleanup

**Environment Variable or Path** 

printenv \$echo

echo \$PATH

echo \$PATH >path.txt

export PATH=\$PATH:absolute/path

to/program/

Search

Change the permission of a folder (and its contents) to 600 Change the ownership of a file to user and group. Add -R to include folder contents

Output currently running processes. Here, a shows processes from all users and x shows processes that are not connected with the Terminal

Shows all the processes with %cpu, %mem, page in, PID, and command

Display live information about currently running processes Display processes sorted by CPU usage, updating every 5

Sort top by memory usage

Quit process with ID <PID>. You'll see PID as a column in

the Activity Monitor

Find a process by name or PID

Ping host and display status Output whois info for a domain

Download file via HTTP, HTTPS, or FTP

Establish SSH connection to <host> with user <username>

Copy <file> to a remote <host>

View a list of all devices on your local network. It will show you the IP and MAC address of all the devices

View your device IP and MAC address

Identify the path and the hops traversed by the packets

from your device to the destination address

Check brew for potential problems

List of useful homebrew formula and cask commands

Install a formula or cask Uninstall a formula or cask List only installed formulas List only installed cask

List all the dependencies of a formula or cask

Search formula or cask through regex

Upgrade the formula or cask

Search for outdated formula or cask

Search for outdated formula Search for outdated cask

Pin a formula from getting upgraded

Unpin to upgrade a package

Remove stale lock files and outdated packages for all

formula and casks.

Display a list of currently set environment variables. Also

tells you which shell you're using

Tells the terminal to print something and show it to you Check the value of the PATH variable which storea a list of

directories with executable files

Export the path directory to a text file

Execute a program via terminal only in your current session. If you use a program regularly, add the path to

shell configuration file.

find <dir> -name <"file">

grep "<text>" <file>

grep -rl "<text>" <dir>

Output cat <file>

less <file>

head <file> <cmd> > > <file> <cmd> > < file> <cmd> > <file>

Find all files named <file> inside <dir>. Use wildcards (\*) to

search for parts of filenames

Output all occurrences of <text> inside <file> (add -i for

case insensitivity)

Search for all files containing <text> inside <dir>

Output the content of <file>

Output the contents of <file> using the less command that

supports pagination and more
Output the first 10 lines of <file>
Appends the output of <cmd> to <file>
Direct the output of <cmd> into <file>
Direct the output of <cmd1> to <cmd2>