The Essential Mac Terminal Commands Cheat Sheet



Shortcuts		Change Directory	
Tab	Auto-complete file and folder	cd	Home directory
	names Go to the beginning of the line	cd [folder]	Change directory, e.g. cd Documents
Ctrl + A	you're currently typing on	cd ~	Home directory
Ctrl + E	Go to the end of the line you're	cd/	Root of the drive
Ctrl + U	currently typing on Clear the line before the cursor	cd -	Previous directory or folder you last browsed
Ctrl + K	Clear the line after the cursor	pwd	Show your working directory
Ctrl + W	Delete the word before the	cd	Move up to the parent directory
Otti · W	cursor Swap the last two characters	cd/	Move up two levels
Ctrl + T	Swap the last two characters before the cursor List Directory Contents		tory Contents
Esc + T	Swap the last two words before the cursor	ls	Display the name of files and
Ctrl + L	Clear the screen		subdirectories in the directory Force multi-column output of the
Ctrl + C	Kill whatever you're running	Is -C	listing
Ctrl + D	Exit the current shell	ls -a	List all entries including those with .(period) and(double period)
Option + →	Move cursor one word forward	ls -1	Output the list of files in one entry per
Option + ←	Move cursor one word backward		line format Display a / (slash) immediately after
Ctrl + F	Move cursor one character forward	ls -F	each path that is a directory, * (asterisk) after executable programs
Ctrl + B	Move cursor one character backward		or scripts, and @ after a symbolic link
Ctrl + Y	Paste whatever was cut by the	ls -S	Sort files or entries by size
	Puts whatever you're running	ls -l	List in a long format. Includes file mode, owner and group name, date and time file was modified, pathname,
Ctrl + Z	into a suspended background process		and more
Ctrl + _	Undo the last command	ls -It	List the files sorted by time modified (most recent first)
Basics	-	ls -lh	Long listing with human readable file sizes in KB, MB, or GB
/ (Forward Slash)	Top level directory	ls -lo	List the file names with size, owner,
• (Single Period)	Current directory		and flags List detailed directory contents,
(Double Period)	Parent directory	ls -la	including hidden files
~ (Tilde)	Home directory Run command with the security	Command	l History
sudo [command]	privileges of the super user	Ctrl + R	Search through previously used
nano [file]	Opens the Terminal editor		commands Shows the previous commands typed.
open [file]	Opens a file	history n	Add a number to limit to last n items
[command] -h	Get help about a command	![value]	Execute the last command typed that starts with a value
man [command]	Show the help manual of the command	!!	Execute the last command typed

File Size and Disk Space		File and Directory Management		
du	List usage for each subdirectory and its contents	mkdir <dir></dir>	Create new folder named <dir></dir>	
du -sh [folder]	Human readable output of all	mkdir -p <dir>/<dir></dir></dir>	Create nested folders	
du -s	files in a directory Display an entry for each	mkdir <dir1> <dir2> <dir3></dir3></dir2></dir1>	Create several folders at once	
du -sk* sort -nr	specified file List files and folders, totaling the size including the subfolders. Replace sk* with	mkdir " <dir>" rmdir <dir></dir></dir>	Create a folder with a space in the filename Delete a folder (only works on empty	
df -h	sm* to list directories in MB Calculate your system's free		folders) Delete a folder and its	
ui -ii	disk space Calculate free disk space in	rm -R <dir></dir>	contents	
df -H	powers of 1,000 (as opposed to 1,024)	touch <file></file>	Create a new file without any extension	
Permissions	35 2,52 1,	cp <file> <dir></dir></file>	Copy a file to the folder	
ls -ld	Display the default permission for a home directory	cp <file> <newfile></newfile></file>	Copy a file to the current folder	
ls -ld/ <dir></dir>	Display the read, write, and access permission of a particular folder	cp <file>~/<dir>/<newfile></newfile></dir></file>	Copy a file to the folder and rename the copied file	
chmod 755 <file></file>	Change the permission of a file to 755	cp -R <dir> <"new dir"></dir>	Copy a folder to a new folder with spaces in the filename	
chmod -R 600 <dir></dir>	Change the permission of a folder (and its contents) to 600 Change the ownership of a file	cp -i <file><dir></dir></file>	Prompts you before copying a file with a warning overwrite message	
up> <file></file>	to user and group. Add -R to include folder contents	cp <file1> <file2> <file3>/Users/<dir></dir></file3></file2></file1>	Copy multiple files to a folder	
ps -ax	Output currently running processes. Here, a shows processes from all users and x	rm <file></file>	Delete a file (This deletes the file permanently; use with caution.)	
po un	shows processes that are not connected with the Terminal	rm -i <file></file>	Delete a file only when you give confirmation	
ps -aux	Shows all the processes with %cpu, %mem, page in, PID, and	rm -f <file></file>	Force removal without confirmation	
top	command Display live information about currently running processes	rm <file1> <file2> <file3></file3></file2></file1>	Delete multiple files without any confirmation	
top -ocpu -s 5	Display processes sorted by CPU usage, updating every 5	mv <file> <newfilename></newfilename></file>	Move/rename	
top -ocpu -s 5	seconds Sort top by memory usage	mv <file> <dir></dir></file>	Move a file to the folder, possibly by overwriting an existing	
100 013120	Quit process with ID PID>.		file	
kill PID ps -ax grep	You'll see PID as a column in the Activity Monitor	mv -i <file> <dir></dir></file>	Optional -i flag to warn you before overwriting the file	
<appname></appname>	Find a process by name or PID	mv *.png ~/ <dir></dir>	Move all PNG files from current folder to a different folder	

Network	(
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ping <host></host>	Ping host and display status
whois <domain></domain>	Output whois info for a domain
curl -0 <url file="" to=""></url>	Download file via HTTP, HTTPS, or FTP
ssh <username>@<host></host></username>	Establish SSH connection to <host> with user <username></username></host>
scp <file><user>@<host>:/rem ote/path</host></user></file>	Copy <file> to a remote <host></host></file>

Homebrew

brew doctor	Check brew for potential problems
brew install <formula></formula>	Install a formula
brew uninstall <formula></formula>	Uninstall a formula
brew list	List all the installed formulas
brew search	Display available formulas for brewing
brew upgrade	Upgrade all outdated and unpinned brews
brew update	Fetch latest version of homebrew and formula
brew cleanup	Remove older version of installed formula
brew tap homebrew/cask	Tap the cask repository from GitHub
brew cask list	List all installed casks
brew cask install <cask></cask>	Install the given cask
brew cask uninstall <cask></cask>	Uninstall the given cask

Search

find <dir> -name <"file"></dir>	Find all files named <file> inside <dir>. Use wildcards (*) to search for parts of filenames</dir></file>
grep " <text>" <file></file></text>	Output all occurrences of <text> inside <file> (add -i for case insensitivity)</file></text>
grep -rl " <text>" <dir></dir></text>	Search for all files containing <text> inside <dir></dir></text>

Output

cat <file></file>	Output the content of <file></file>
less <file></file>	Output the contents of <file> using the less command that supports pagination and more</file>
head <file></file>	Output the first 10 lines of <file></file>
<cmd>>><file></file></cmd>	Appends the output of <cmd> to <file></file></cmd>
<cmd>><file></file></cmd>	Direct the output of <cmd> into <file></file></cmd>
<cmd1> <cmd2></cmd2></cmd1>	Direct the output of <cmd1> to <cmd2></cmd2></cmd1>