

## Mac / linux command line Cheat Sheet by k.mate555 via cheatography.com/200161/cs/42310/

Basics	
man {cmd}	man page for cmd
type {cmd}	executable/shell/alias
help {cmd}	if there is no man page
WC	word count (-lines -words)
sort (file)	alphabetically (-reverse -numeric -unique -k column)
ls   sort - nk4	sort by file size
mkdir [- p]	also make -parents if not exists
rm [-r -d -i]	(-recursive -d empty direct- ories -i prompt before every removal)
mv {source} {destination}	move file(s) or directories or rename (if single file or folder is specified as source & destin- ation)
cp {source } destin- ation	copy file(s)
history   less	open history in pager
history   grep {term}	search for term in history
cat {file1} {file2}	con catenate & print contents of file(s)
less {file}	page file contents
head - {n} & tail	print firts / last n lines of file
tail -f	follow (eg. for logs)
tr {search} {replace}	replace search with replace in stdout (eg. cat msg   tr s S to uppercase all s) (-delete {search} instead of replacing)

Grep		
man grep   grep "count" -i -C5	grep in man for "count"	
-i	insensitive case	
-W	word search	
-r	recursive	
-C	count number of matches	
-A {n}	end n lines after match	
-B {n}	start n lines before match	
-C {n}	start & end n lines before & after match	
-n	add line number for each match	
-m {n}	limit to n matches	
-1	show filenames	
Search for patterns in each file's contents (supports regex!)  grep " {pa tte rn} " {file} print each line from {file} that contains {patt ern} egrep (or grep -E) - use regex meta-c-		
haracters (eg. ? {} etc.) for their special		

Shortcuts	
ctrl+l	clear screen
ctrl+a / ctrl+e	move to beginning/end of line
option+← / option+→	move left/right one word
ctrl+t	swap char with one before
option+t	swap word with one before
ctrl+u	kill from cursor to beginning of line
option+d	kill word forward
ctrl+w	kill word backward

meaning and not as a normal character

Shortcu	its (cont)
!!	last command
!-{n}	current command minus n
ctrl+r	incremental history search
need to	pptions on some OSes / terminals be set with bindkey, eg. bindkey
d]^ "	" backwa rd-word

Streaming / redirection / piping		
>	redirect output to specific file (overwrite!)	
>>	append new data to specific file	
<	pass contents of file to stdin	
2>	redirect stderr to specific file	
2>>	append stderr to file	
2>&1	redirect both sderr and stdout to same file	
command1   command2	pipe (redirect) stdout of 1 to stdin of 2	
tee	read stdin and copy both to stdout and a file.	
cat a.txt b.txt   tee both.txt   wc -	see above	
If redirecting both stdout and stderr, out has		

to be first! Eg. cat a.txt b.txt > both.txt 2>

error.txt



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less		
space or f	next page	
b	previous page	
enter or down arrow	scroll one line	
/ {pattern} search for pattern		
q	quit	
Pager to read manuals, docs, etc.		

Permissions	
r	file can be read, dir contents listed
W	file can be modified, dir contents modified
х	file can be treated as a program to be executed, dir can be cdd into
-	file/dir can't be read/modified/e- xecuted (depending on where the dash is)
chmod {permi- ssion} {file}	change permissions for given file
chmod g+w	add write permissions for group
chmod a- w	remove write permissions for all
chmod a=r	set permissions to read <b>ONLY</b> for all
chmod 020	W
chmod 700	rwx
chmod 644	rw - r r

Modes: user, group, others, all
What: -: remove, +: add, =: only
Which read write xecute

Expansion	
~	home dir
~{someuser}	home dir of someuser
*	zero or more characters

find

{dir/}

dir/

Expansion (cont)		
?	any single character	
	range of characters eg. [123] [0-9] [A-F]	
[^]	negate range eg. [^0-9]* -> not starts with a digit	
{}	generate arbitrary strings, eg. touch page{1,2,3}.txt will generate 3 files	
{}	generate between range eg. {131} {ae} {2102} (start,stop,step)	
${x,y{15},z}$	will expand to x y1 y2 y3 y4 y5 z	
\$((expression))	arithmetic expansion (+, -, , /, $\star$ , %)	
\$(command)	command substitution (eg. echo today is \$(date))	
"double quotes"	respect spacing & ignore special characters except \$, \ and ` (backtick)	
'single quotes'	suppress all forms of substitution	
Before any command runs, some special commands expand to match given files eg.:  ls -1 *.txt will be expanded to contain all files ending with .txt  mv app?.css Styles/-> move all files matching pattern to Styles directory		
Finding files		
{searc term	all files containing search (-ignore case -1 limit to n ons -e only files that exist	

list every file and directory inside

Finding files (cont)	
-type d	only find directories (or files)
-name "{pattern}"	find files with given pattern (case sensitive!) (iname for case insens- itive)
-size +1G	larger than 1gb (or - 50M, 20k - > exactly 20k)
-user {uname}	files belonging to uname
-empty	empty files/- folders
[acm]min {n}	accessed / changed / modified n minutes ago (+- for greate- r/less than)
[acm]time {n}	a/c/m n * 24 hours ago
-and-or-not	logical operators for more complex needs eg. find -type f -not -name "*.html"

-exec command '{}' ';'	execute cmd for each match, eg.: find ~/Down- loads -type f -empty - exec ls -l '\}';'
find -type f -name "*.html - exec cp '{} '{}_COPY' ';'	find each matching file & create a copy with suffix
-ok command '{}' ';'	same as above but ask for confir- mation each time (y/n)
find -name "*.txt"   xargs ls	equivalent to the - exec ls '{}'



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