# Cheatography

## Linux Terminal Cheat Sheet Cheat Sheet by Edward (edward.z) via cheatography.com/143912/cs/30884/

Terminal Programs		Shell
iterm2	env	
Downlo of the d	echo	
	echo	
double click + CMD-v		ABC=
double click text to copy and then CMD-v to paste		expor
zsh		ABC=
install a	\$NOE	
oh my zs	h	<b>WINCE</b>
install o	h my zsh to easily configure zsh	
~/.zshrc		\$HON
	common aliases and other shell ration here	IO Re
plugins=(	git node npm kubectl)	cmd <
add these shell completion plugins to .zshrc		cmc (std
ZSH_THEME="robbyrussell"		cmd >
shell theme set in .zshrc https://github.c-		cmd
om/ohmyzsh/ohmyzsh/wiki/Themes		cmd >
alias abc=cmd		disc
run cmd when you type abc		cmd >
Shell Shortcuts		app
CTRL-	Stop the current command	cmd 2
c		cmc
CTRL-	Go to start of line	cmd 2
а		sen
	Go to end of line	cmd 2
e	Coarab command history	
r	Search command history	(std
CTRL-	Clear the screen	cmd 2
1		sea
!!	Run last command	abc
!abc	Run last command that starts with	cmd

#### Shell Variahl

env	Show all environment variables
echo \$ABC	Show a specific enviro- nment variables
ABC=123	Create a local variable
export ABC=123	Create a variable accessible by child processes
\$NODE_ENV	Used node.js code; expects value to be production or anything else
\$HOME	Home directory

### direction

< file d receives contents of file as input din)

#### > file

d output (stdout) is written to file

> /dev/null

card cmd output

>> file

pend cmd output to end of file

2> file

d error output (stderr) is written to file

#### 2>&1

nd cmd error output (stderr) to the indard output (stdout)

2>&1 > file

d output (stdout) and error output derr) is sent to file

2>&1 | grep abc

arch cmd output and error output for

#### | cmd2

cmd2 receives output from cmd as input



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### Process Management

cmd1 ; cmd2				
run cmd1 and then cmd2, regardless of cmd1 exit status				
cmd1 && cr	md2			
run cmd1; run cmd2 if cmd1 is successful				
cmd1    cmd	12			
run cmd1; run cmd2 if cmd1 is not successful				
cmd &				
run cmd ir	n the background			
CTRL-z				
cause currently running command to sleep				
bg				
continue running sleeping command in background				
	nmand running in the backgr- un in the foreground			
jobs				
list all currently running processes				
fg 2				
move the second command listed by jobs, to run in the foreground				
Directory C	ommands			
mkdir abc	Create directory named abc			
mkdir -p abc	Create directory if it does not exist			
mkdir -p abc/xy-	Create all directories and subdirectories if they do not			

abc/xy-	subdirectories if they do not
z/123	exist
pwd	Show the current directory
cd abc	Change to directory abc
cd	Change to the parent directory
cd/xyz	Change to the sibling directory
	хуz

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Director	ry Commands (cont)
cd -	Change back to previous directory
ls	List files in directory
ls -la	List files, including dot-files, with extra info
ls - IhSr	List files in reverse size order; w/friendly size
File Op	erations
touch file	update file last modified date; create file if not exists
cat file	output contents of file
less file	paged output contents of file
cp file1 file2	copy file1 to file2
mv file1 file2	mv file1 to file2
rm file	delete file
head - 5 file	show the first 5 lines of file
tail -5 file	show the last 5 lines of file
tail -f	show the last few lines of the file

file and follow output

Command help		
tldr	https://tldr.sh/	
man cmd	get command docume- ntation	
cmd -h OR cmd - -help	get help from the command	

Finding Files

find . list all files and directories under the current directory and subdirectories find . -type f list all files under the current directory and subdirectories find . -type f -iname 'abc' list all files that have abc (case insensitive) in the file name find . -type f -maxdepth 3 list all files up to 3 directories in depth find . -type f -mmin -5 list files that were modified in the last 5 minutes find . -type f -iname " abc" -exec cmd {} \; run cmd on each file that contains abc; use {} in place of the filename; end the command with backslash+semi-colon find . -type f -iname 'abc' -exec chown root {} \; make root the owner of all abc files grep -Er 'this|that' src/ find files under the src/ dir that contain "this" or "that" grep -Er -I 'test' src/ list files only that contain 'test' grep -Er -h 'test' src/ list lines in files only that contain 'test' Text Manipulation cut -d, -f1 split input by comma and output the first field

cut -d' ' -f2-5

split input by space and return the fields 2, 3, 4, 5

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cut	t -c1-10
	eturn the first 10 characters of each line f input
SO	rt
s	ort each line of input alphabetically
SO	rt -n
s	ort each line of input numerically
soi	rt -nr
	ort each line of input numerically, lescending (reverse)
un	iq
	eturn only one line for each duplicate djacent line of input
un	iq -c
	ame as above, but includes a count of ow many times the line appears
se	d -E -e 's/this/that/' file
	eplace the first instance of "this" with "- nat" on each line in file
se	d -E -e 's/this/that/g' file
	eplace all instances of "this" with "that" n each line in file
se	d -i.bak -E -e 's/this/that/g' file
	ame as above, but modifies file in lace, and creates a backup
aw	k '{ print \$2 }'
þ	rint out the second field in each line
Sir	nple Regular Expressions
	match any character once
*	match the preceding character 0 or more times
+	match the preceding character 1 or more times
?	match the preceding character 0 or 1 time
()	group patterns

() group patterns

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#### Simple Regular Expressions (cont)

- | match the pattern on the left OR right
- ^ match the start of the line
- \$ match the end of the line

**Common Command Combos** 

tmux

vim

emacs

git



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