Cheatography

Bash Keyboard Shortcuts by rando (jalexa9) via cheatography.com/58013/cs/15355/

Simple Bash Commands	
HOME	Cursur to start of line
END	Cursur to end of line
TAB	Autocompletion
!!	Repeat last Bash cmd
cd foldername	change director to foldername
cd	go up one folder
ls	list services- shows files in current directory
man <cmd></cmd>	shows manual for <cmd></cmd>
clear	clears terminal
reset	resets terminal but doesn't restart service
CTRL-Z	Stops current running function
CTRL-J	Same as RETURN
DEL	deletes backward from pointer
exit	logs out of current session
cat 'filename'	prints file to std out on terminal
pwd	print working directory
wc 'filename'	word count of filename
echo 'string or filename'	prints string or filename on the terminal
cat > 'filename'	takes standard input into file
head 'filename'	prints first 10 lines of file
tail 'filename'	prints last 10 lines of file
Cut	
out b coo	oifia bytoc

cut -b	specific bytes
cut -b 1,2,3	bytes 1 2 and 3
cut -b 1- 3,5-7	bytes 1-3 and 5-7
cut -b 1-	from first byte to end of line
cut -d	use a delimiter
cut -d " "	outputs from beginning of line to first space

Common Compilation commands

Common Compile		
gcc 'filename.c'	C files	
chmod +x 'filename.sh'	Bash script file	S
g++ 'filename.cpp'	CPP files	
javac 'javafile'	JAVA	
python 'filename'	to run python s	scripts
gcc -o newname 'filename.c'	change name compiled prog	
g++ -o newname 'filename.cpp'	change name compiled prog	
Grep Commands		
grep 'string' >	outputs all lines th 'string'	nat match
grep 'string' filename1 filename2	output all lines tha 'string' in multiple	
grep -i 'string' filenmae	ignores case	
grep [-options] 'string'	grep standard out	put
grep [-options] 'string' filename	grep the contents	of a file
grep -A n 'string' filename	displays n lines af	ter string
grep -B n 'string' filename	displays n lines be string	efore
grep -v 'string' filename	returns all lines w don't match 'string	
grep -E	allows extended r expressions	egular
grep -E 'string{n}'	get lines with n nu string in it	imber of
grep -c	count results	
grep -n	show line number	
Common Grep Cm	nds	
grep -E '[0-9]{1,3}\.[0-9]{1,3}\.[0- 9]{1,3}\.[0-9]{1,3}' 'filename' addre		lp address
grep -srhw "[[:alnum:]]\+@[[:alr 'filename'	num:]]\+"	email address

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Common Grep Cmds

grep -E '[0-9]{1,3}\.[0-9]{1,3}\.[0- 9]{1,3}\.[0-9]{1,3}' 'filename'	lp address
grep -srhw "[[:alnum:]]\+@[[:alnum:]]\+" 'filename'	email address

Program/Scri	pt comma	nds
cmdX cmdY	run cmdX cmdY	if it fails then run
cmdX && cmdY	run cmdX cmdY	(if it doesn't fail run
cmd &	will push	cmd to background
cmd & >/dev/null &		nd to background and ly cmd outputs
disown		er pushing cmd to nd to disown cmd from rminal
jobs	show disc	owned jobs
SED		
SED		
sed G		double space a file
sed 'G;G'		triple space a file
sed -n '\$='		count lines
sed = filename s/^/ /; s/ *\(.\{6		number each line of a file
sed 's/^[\t]//;s/	/[\t]\$//'	delete both leading and trailing whitespace
sed 's/[\t]*\$//'		delete trailing whitespace
sed '/\n/!G;s/\((.*\n\)/&\2\1/;//	'	reverse all characters on the line
sed 10q		print first 10 lines of file
sed q		print first line of file
sed -e :a -e		Last 10 lines of file

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print only line that matches regex

print lines 8-12

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'\$q;N;11,\$D;ba' sed -n '/regexp/p'

sed -n '8,12p'

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SED (cont)	
sed '1,10d'	delete first 10 lines of a file
Regular Expr	essions
	Matches any single character
\d	number in 0-9
\D	non number
\w	"word" letters, digits and _
\W	non word
\r	return
\n	newline
\s	whitespace
\S	non whitespace
'term'*	0 or more repetitions of term
'term'+	1 or more repetitions of term
'term'?	0 or one instances of term
'term'{n}	exactly n instances of term
'term'{n,}	atleast n instances of term
'term'{x,n}	between x and n instances of term
(term1 term2)	term1 or term2

Notes

To use these commands just replace 'filename' or 'term' or 'cmd' with the file or regex or program that is to be used.

How to run Program	ms or scripts
./a.out	for recently compiled program
./'script.sh'	bash script
./'compiledname'	name changed compiled program
'name of installed program'	eg. gedit, nano, vim

Common regex Cmds	
[0-9]	matches any number
[a-z]	matches any letter
[aeiou]	matches vowels
([A-Za-z0-9-]+)	letters numbers and hyphens
$(d{1,2})/d{1,2})/d{4})$	European Date (eg. 21/3/2018)
(\w+@[a-zA-Z_]+?\. [a-zA-Z]{2,6})	email addresses

File Redirection

> 'file'	create file or overwrite if existing
>> 'file'	append to the file
< 'file'	read from file
XIY	pipe X as input to Y



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