The Linux Command Line Bootcamp

CHEATSHEET FOR COLT STEELE'S UDEMY COURSE (CREATED BY QIUSHI YAN)

rev

- Getting Help

Display the manual page for a command man [command] ...

The man pages are a built-in format of documentation. Each man page contains the synopsis of a command syntax. For instance, a simplified synopsis for the sort looks like sort [-n] [-h] [-k=number] [file]...

sort man page synopsis

the -n option is optional [-n] -k=number the -k option expects an number [file] ... more than one file can be provided

In summary, sort accepts optional argument -n, -h and -k, and -k expects a number, and we can provide more than one file to sort with.

Shortcuts for navigating man pages.

quit man page B/Fgo back/forward a page search for a pattern /PATTERN viewing all shortcuts

For certain shell builtins without a manual page entry, the **help** command can be used to generate a help page.

- Navigation

print name of current directory pwd

list contents of a directory, default to current ls [dir]

Options for **ls**

- print files that begin with.
- include permissions, file size and modification time
- print human readable sizes

move into another directory

cd [dir]

Use cd .. to move up one level.

Refer to the root directory and user home directory with / and \sim respectively.

- Manipulating Files and Directories

Cor	nmand	Meaning	
create files: touch			
touch [-	file]	create files	
file [f:	ile]	print file type	
	create directe	ories: mkdir	
mkdir [d	dir]	make directories	
mkdir −µ	o [dir]	automatically make	
		parent directories	
	copy files and	directories: cp	
cp [iter	n1]	copy a single file or di-	
[item2]		rectory item1 to item2	
cp [file	e]	copy multiple files into	
[dir]		a directory	
	move and ren	ame files: mv	
mv [iter	n1]	move or rename the	
[item2]		file or directory item1	
		to item2	
mv [item] [dir]		move files from one di-	
		rectory to another	
(delete files and	directories: mv	
rm [iter	m]	remove files or empty	
		directories	
	Options	for rm	
Option	Long	Desc.	
-i	interactive	prompt before re-	
		moval	
-r	recursive	allow removing non-	
		empty directories	
-f	force	do not prompt	
Recipe: remove all files with confirmation			

edit files with nano

nano file open file with nano nano +line file open file at a line nana abantanta

nano shortcuts		
ctrl+O	write out	
ctrl+S	save	
ctrl+X	exit nano	
$\operatorname{ctrl+W}$	search forwarad	
$\operatorname{ctrl}+\setminus$	replace	
$M+\setminus, M+/$	move to the first/last line	
ctrl+A, ctrl+E	move to the start/end of a line	
Edit /etc/nanorc for furthur configuration.		

- File Manipulation Cont.

display file contents	
Command	Meaning
cat [file]	outputs the concatenated result of multi- ple files
less [file] tac	displays file contents one page at a time prints files in reverse order (last line first)

Options	for	cat
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		Options for cat
Option	\mathbf{Long}	Description
-n	number	number output lines
-S	squeeze-black	suppress repeated black lines
-A	show-all	show non-printable characters such as tabs and
		line endings

reverse lines characterwise.

print first / last parts of files

The head and tail command prints the first/last ten lines of the given file. The number of lines can be adjusted with the -n option, or simply -[number].

The -f option of tail views file contents in real time. This is useful for monitoring log files.

print line, word, byte counts

wc [file] ... prints newline, word, byte counts for each file and a total line of all files To limit the output, use

- -W: print word counts
- -1: print line counts
- -m: print character counts
- -C: print byte counts

Recipe: count total lines of .js files

sort lines of fines

By default, sort file print each line from the specified file, sorted in alphabetical order. It can also merge multiple files into one sorted whole via sort file1 file2

Options for **sort**

Operation for Season				
Option	\mathbf{Long}	Description		
-n	numeric-sort	compare based on string numerical value		
-h	human-numeric-sort	compare based on human readable numbers (e.g., 2k 1G)		
-k	key=KEYDEF	sort via a key		
$-\mathbf{r}$	reverse	sort in reverse order		
-u	unique	sort unique values only		

Recipe: find the top 10 biggest files inside a directory