## **Unix Cheat Sheet**

Help on any Unix command.	
man {command}	Type <b>man rm</b> to read the manual for the <b>rm</b> command.
whatis {command}	Give short description of command.
List a directory	
ls {path}	It's ok to combine attributes, eg ls -laF gets a long listing of all files with types.
<pre>ls {path_1} {path_2}</pre>	List both {path_1} and {path_2}.
ls -l {path}	Long listing, with date, size and permisions.
ls -a {path}	Show all files, including important .dot files that don't otherwise show.
ls -F {path}	Show type of each file. "/" = directory, "*" = executable.
ls -R {path}	Recursive listing, with all subdirs.
ls {path}   more	Show listing one screen at a time.
Change to directory	
cd {dirname}	There must be a space between.
cd ~	Go back to home directory, useful if you're lost.
cd	Go back one directory.
	Go daek one uncerory.
Make a new directory	
mkdir {dirname}	
Remove a directory	
rmdir {dirname}	Only works if {dirname} is empty.
rm -r {dirname}	Remove all files and subdirs. Careful!
Print working directory	
pwd	Show where you are as full path. Useful if you're lost or exploring.
Copy a file or directory	
cp {file1} {file2}	
cp -r {dir1} {dir2}	Recursive, copy directory and all subdirs.
<pre>cat {newfile} &gt;&gt; {oldfile}</pre>	Append newfile to end of oldfile.
Move (or rename) a file	
mv {oldfile} {newfile}	Moving a file and renaming it are the same thing.
mv {oldname} {newname}	and and remaining it are the same thing.
D.1	
Delete a file	? and * wildcards work like DOS should. "?" is any character; "*" is any string of
rm {filespec}	characters.
ls {filespec}	Good strategy: first list a group to make sure it's what's you think
rm {filespec}	then delete it all at once.
View a text file	
<pre>more {filename}</pre>	View file one screen at a time.
<pre>less {filename}</pre>	Like <b>more</b> , with extra features.
<pre>cat {filename}</pre>	View file, but it scrolls.
	View file one screen at a time.
cat {filename}   more	

Enter your text (multiple lines with **enter** are ok) and press **control-d** to save.

cat > {filename}

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Compare two files
        diff {file1} {file2}
                                                Show the differences.
        sdiff {file1} {file2}
                                                Show files side by side.
Other text commands
        grep '{pattern}' {file}
                                                Find regular expression in file.
        spell {file}
                                                Display misspelled words.
        wc {file}
                                                Count words in file.
        wc -l {file}
                                                Count the number of lines in a file.
Make an Alias
        alias {name}='{command}'
                                                Put the command in 'single quotes'. More useful in your .bashrc file.
Wildcards and Shortcuts
                                                Match any string of characters, eg page* gets page1, page10, and page.txt.
        ?
                                                Match any single character, eg page? gets page1 and page2, but not page10.
                                                Match any characters in a range, eg page[1-3] gets page1, page2, and page3.
        [...]
                                                Short for your home directory, eg cd ~ will take you home, and rm -r ~ will destroy it.
                                                The current directory.
                                                One directory up the tree, eg ls ...
Pipes and Redirection
                                                (You pipe a command to another command, and redirect it to a file.)
        {command} > {file}
                                                Redirect output to a file, eg ls > list.txt writes directory to file.
                                                Append output to an existing file, eg cat update >> archive adds update to end of
        {command} >> {file}
                                                archive.
        {command} < {file}
                                                Get input from a file, eg sort < file.txt
                                                Get input from file1, and write to file2, eg sort < old.txt > new.txt sorts old.txt and
        {command} < {file1} > {file2}
                                                saves as new.txt.
                                                Pipe one command to another, eg ls | more gets directory and sends it to more to
        {command} | {command}
                                                show it one page at a time.
System info
        date
                                                Show date and time.
        df
                                                Check system disk capacity.
                                                Check your disk usage and show bytes in each directory.
        du -h
                                                Check your disk usage in a human readable format
        printenv
                                                Show all environmental variables
        uptime
                                                Find out system load.
                                                Who's online and what are they doing?
                                                Real time processor and memory usage
        top
```

Create some text and save it.

## Unix Directory Format

gedit {filename}

Long listings (ls -l) have this format:

## DOS and UNIX commands

Action	DOS	UNIX
change directory	cd	cd

change file protection	attrib	chmod
compare files	comp	diff
copy file	copy	cp
delete file	del	rm
delete directory	rd	rmdir
directory list	dir	ls
edit a file	edit	pico
environment	set	printenv
find string in file	find	grep
help	help	man
make directory	md	mkdir
move file	move	mv
rename file	ren	mv
show date and time	date, time	date
show disk space	chkdsk	df
show file	type	cat
show file by screens	type filename   more	more
sort data	sort	sort