# **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. Give short description of command.	
whatis {command}		
List a directory		
ls {path}	It's ok to combine attributes, eg <b>ls -laF</b> gets a long listing of a files with types.	
<pre>ls {path_1} {path_2}</pre>	List both {path_1} and {path_2}.	
<pre>ls -l {path}</pre>	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.	
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		
<pre>mv {oldfile} {newfile}</pre>	Moving a file and renaming it are the same thing.	
<pre>mv {oldname} {newname}</pre>		

Delete a file		
rm {filespec}	? and * wildcards work like DOS should. "?" is any characte "*" is any string of characters.  Good strategy: first list a group to make sure it's what's you think then delete it all at once.	
<pre>ls {filespec} rm {filespec}</pre>		
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.	
cat {filename}   more	View file one screen at a time.	
Edit a text file.		
<pre>gedit {filename}</pre>	Basic text editor	
Create a text file.		
<pre>cat &gt; {filename}</pre>	Enter your text (multiple lines with <b>enter</b> are ok) and press <b>control-d</b> to save.	
<pre>gedit {filename}</pre>	Create some text and save it.	
Compare two files		
<pre>diff {file1} {file2}</pre>	Show the differences.	
sdiff {file1} {file2}	Show files side by side.	
Other text commands		
<pre>grep '{pattern}' {file}</pre>	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		
<pre>alias {name}='{command}'</pre>	Put the command in 'single quotes'. More useful in your .bashrc file.	
Wildcards and Shortcuts		
*	Match any string of characters, eg <b>page*</b> gets page1, page10, and page.txt.	
?	Match any single character, eg <b>page?</b> gets page1 and page2, but not page10.	
[]	Match any characters in a range, eg <b>page[1-3]</b> gets page1, page2, and page3.	
~	Short for your home directory, eg <b>cd</b> ~ will take you home, and <b>rm</b> - <b>r</b> ~ will destroy it.	

The current directory.

One directory up the tree, eg ls ...

#### Pipes and Redirection

{command} > {file}

{command} >> {file}

{command} < {file}

{command} < {file1} > {file2}

{command} | {command}

(You **pipe** a command to another command, and **redirect** it to a 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 archive.

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 saves as new.txt.

Pipe one command to another, eg **ls I more** gets directory and sends it to **more** to show it one page at a time.

### System info

date

df

du

du -h

printenv

uptime

w

Show date and time.

Check system disk capacity.

Check your disk usage and show bytes in each directory.

Check your disk usage in a human readable format

Show all environmental variables

Find out system load.

Who's online and what are they doing? Real time processor and memory usage

## **Unix Directory Format**

top

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 pico edit printenv environment set find string in file find grep help help man make directory mkdir md 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