Linux/Unix Command Line Cheat Sheet

Command	Description	
pwd	prints working directory, displays the full path of your current location on the filesystem	
ls	lists contents of current directory	
ls -1	lists contents of current directory with extra details	
ls /home/user/*.txt	lists all files in /home/user ending in .txt	
cd	change current directory to your home directory	
cd ~	change current directory to your home directory	
cd /home/user	change current directory to /home/user	
cd -	change current directory to the last directory you were in before your last location	
mkdir <i>mydir</i>	makes a directory called mydir	
rmdir <i>mydir</i>	removes directory called <i>mydir</i> , <i>mydir</i> must be empty	
touch myfile	creates a file called <i>myfile</i> . updates the timestamp on the file if it already exists, without modifying its contents	
cp myfile myfile2	copies myfile to myfile2. What happens if myfile2 already exists?	
rm myfile	removes file called myfile	
rm -f <i>myfile</i>	removes myfile without asking you for confirmation. useful if using wildcards to remove files ***	
cp -r dir newdir	copies the whole directory <i>dir</i> to <i>newdir</i> , the –r parameter must be specified to copy directory contents recursively	
rm -rf mydir	this will delete directory mydir along with all its content without asking you for confirmation! ***	
nano	opens the nano text editor, see the status bar at the bottom for help. ^x means CTRL-x. this will exit nano	
nano new.txt	opens nano editing a file called new.txt	
cat new.txt	displays the entire content of new.txt on the terminal	
more new.txt	displays the content of new.txt screen by screen, navigate the file with HJKL or the arrows, press q to quit	
head new.txt	displays first 10 lines of new.txt	
tail new.txt	displays last 10 lines of new.txt	
tail -f new.txt	displays the contents of new.txt as it grows, starting with the last 10 lines, ctrl-c to quit.	
mv myfile newlocdir/	moves myfile into the destination directory newlocdir	
mv myfile newfile	moves myfile to newfile, effectively renaming it, if a file called newfile exists, this will overwrite it!	
mv dir anotherdir	moves the directory called <i>dir</i> to the directory called <i>anotherdir</i> , effectively renaming it, if a directory called <i>anotherdir</i> already exists, it will simply move the first directory into the second one	

top	displays all the processes running on the machine, and shows available resources	
du -h	displays the size of all elements contained in the current directory	
grep pattern files	searches for pattern in files, this command displays the lines in the files containing the pattern	
date	shows the current date and time	
anycommand > myfile	redirects the output of <i>anycommand</i> writing it to a file called <i>myfile</i> , if <i>myfile</i> already exists, its previous content will be erased before redirecting the output of <i>anycommand</i> into it ****	
anycommand >> myfile	appends the output of anycommand to a file called myfile	
tar -zxf archive.tgz	extracts the contents of the archive called archive.tgz ***	
tar -zcf dir.tgz dir	creates a compressed archive called dir.tgz containing all the files and directory of dir	
time anycommand	executes anycommand and displays the it took the OS to run it	
man anycommand	displays the manual of anycommand	
cal -y	displays the calendar of the current month by default, add the -y parameter to get the whole year	
CTRL-c	kills whatever process you're currently executing	
CTRL-insert	copies selected text to the clipboard (n.b. see above, ctrl-c will kill whatever you're doing)	
SHIFT-insert	pastes clipboard contents to terminal	

^{*** =} use with extreme caution! you can easily delete or overwrite important files with these.

Absolute vs relative paths.

Let's say you are here that your current directory is: /home/student/scripts/

If you wanted to go to /home/student/, you could type: cd /home/student/.

Or you could use a relative path: cd .. (two periods). This will take you one directory "up" of the current directory, effectively to the parent directory of the current directory.

- . (a single period) means the current directory
- .. (two periods) means the parent directory
- means your home directory

A few examples	
mv myfile	moves myfile to the parent directory
cp myfile/newname	copies myfile to the parent directory and names the copy newname
<pre>cp /home/student/scripts/life.c .</pre>	copies life.c to ".", meaning the current directory you're in
cp myfile ~/subdir/newname	copies myfile to subdir in your home directory and naming the copied file newname
more//myfile	displays screen by screen the content of myfile, which exists 3 directories "up"

Wildcards (use carefully, especially with rm)

* matches any character. example: ls *.pl lists any file ending with ".pl"; rm dataset* will remove all files beginning with "dataset" [xyz] matches any character in the brackets (x, y, or z). example: cat do[or]m.txt will display the contents of either doom.txt or dorm.txt