Shell pipelines:

* a **pipeline** is a set of processes chained by their standard streams, so that the output of each process (*stdout*) feeds directly as input (*stdin*) to the next one.
* ps -ax | grep Finder
* Use the [ps](http://www.westwind.com/reference/os-x/commandline/admin.html#ps) command to get a list of processes running on the system, and pass the list to [grep](http://www.westwind.com/reference/os-x/commandline/text-files.html#grep) to search for lines containing "Finder". (Usually, it'll find two: the Finder, and the processes executing grep Finder.)

$ cat tecmint.txt

- C at command shows the contents of the file and the way it look.

Ex: **grep *root* /etc/passwd**

- Prints lines matching a pattern

- Displayes the lines from /etc/passwrd that contain the string root

awk '{print $3 "\t" $4}' marks.txt

* Prints culumns 3 and 4 from a text file marks.txt

awk '{print $4 "\t" $3}' marks.txt

-Prints culumns 3 and 4 from a text file marks.txt

$ sed -e '1,10d' /etc/services | more

- sed reads the input file, does the instructions (in this case ‘1,10d’) and outputs results

- sed never alters the original file

- in this example lines 1 to 10 are deleted from file “services” and the rest printed on stdout

$ tr [OPTION] SET1 [SET2]

* tr stands for translate.
* If both the SET1 and SET2 are specified and ‘-d’ OPTION is not specified, then tr command will replace each characters in SET1 with each character in same position in SET2.

tr abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

thegeekstuff

THEGEEKSTUFF

* The following tr command is used to convert the lower case to upper case
* $ sort tecmint.txt
* Sort commend sorts the contents of a text file and prints them out on stdout.
* The above command don’t actually sort the contents of text file but only show the sorted output on terminal.
* $ sort tecmint.txt > sorted.txt
* $ cat sorted.txt
* sort -r tecmint.txt > reversesorted.txt
* The first line sorts the contents of the file and saves them in the file called sorted.txt
* Second line just prints the content of sorted.txt
* Third line reversally sorts contents from tecmint.txt and saves them in reversesorted.txt

$ cat test

aa

aa

bb

bb

bb

xx

$ uniq test

aa

bb

xx

* For example, when uniq command is run without any option, it removes duplicate lines and displays unique lines as shown below.
* $ uniq -c test
* 2 aa
* 3 bb
* 1 xx
* This option is to count occurrence of lines in file.

$ uniq -d test

aa

bb

* This option is to print only duplicate repeated lines in file. As you see below, this didn’t display the line “xx”, as it is not duplicate in the test file.

$ uniq -u test

Xx

* This option is to print only unique lines in file.
* $ x=10
* echo its value:
* $ echo The value of variable x = $x
* The value of variable x = 10