Notes7

cat

- * usage
 - Used for displaying content of a file
- * formula
 - cat+option+file to display
- * examples
 - display content of a file
 - cat todo.lst
 - display content of file with line numbers
 - cat -n todo.md
 - display content of file using absolute path
 - cat ~/Documents/todo.lst

tac

- * usage
 - Used for displaying content of a file in reverse
- * formula
 - tac+option+file to display
- * examples
 - display content of a file in reverse
 - tac todo.lst
 - display content of file with line numbers in reverse
 - tac -n todo.md
 - display content of file using absolute path in reverse
 - tac ~/Documents/todo.lst

head

- * usage
 - displays top lines of a file
- * formula
 - head+option+file

* examples

- display fist ten lines of a file
 - head ~/Documents/Book/dracula.txt
- display fist five lines of a file
 - head -5 ~/Documents/Book/dracula.txt
- display first line of multiple files using wildcards
 - head -n 1 *.csv *.py

tail

- * usage
 - displays bottom lines of a file
- * formula
 - tail+option+file
- * examples
 - display last ten lines of a file
 - tail ~/Documents/Book/dracula.txt
 - display last five lines of a file
 - tail -5 ~/Documents/Book/dracula.txt
 - display last line of multiple files using wildcards
 - tail -n 1 *.csv *.py

cut

- * usage
 - extracts a specific section of each line from a file then displays it.
- * formula
 - cut+option+file
- * examples
 - display list of all users in your system
 - cut -d ':' -f1 /etc/passwd
 - display list of all users in system with their login shell
 - cut -d ':' -f1,7 /etc/passwd
 - cuts a range of bytes per line
 - cut -b 1-5 usernames.txt

paste

* usage

• Joins files horizontally in columns

* formula

• paste+option+file

* examples

- merges two files
 - paste users.lst ip address.lst
- merge two files using a delimiter
 - paste -d ":" users.lst ip address.lst

sort

- * usage
 - sorts files in a certain order
- * formula
 - sort+option+file
- * examples
 - sort a file
 - sort users.lst
 - sort a file in reverse order
 - sort -r users.txt
 - sort by column number
 - sort -k 2 users.txt

WC

- * usage
 - prints number of lines/characters/bytes in a file
- * formula
 - wc+option+file
- * examples
 - display number of characters in a file
 - wc -m users.txt
 - display number of lines in file
 - wc -l users.txt
 - display number of words
 - wc -w users.txt

tr

- * usage
 - translating or deleting characters from standard output
- * formula
 - Standard output | tr+option+set+set
- * examples
 - Translate one character to another

```
• cat file.txt | tr '.' ','
```

• Translate white spaces into tabs

```
• cat program.py | tr ":space:" '\t'
```

• Translate tab to space

```
• cat file.py | tr -s ":space:" ' '
```

diff

- * usage
 - compares files and shows difference between them
- * formula
 - diff+option+file+file2
- * examples
 - display difference between two files
 - diff cars.csv cars-backup.csv
 - display difference between two files in column format
 - diff -y cars.csv cars-backup.csv

grep

- * usage
 - searches for text in given file
- * formula
 - grep+option+search criteria+file
- * examples
 - search for any line that has dracula
 - grep 'dracula' ~/Documents/dracula.txt
 - search for any line that has dracula regardless of case

- grep -i 'dracula' ~/Documents/dracula.txt
- display how many lines contain matched string
 - grep -c 'dracula' ~/Documents/dracula.txt