

Notes 8

AWK

Definition:

A scripting language for processing and displaying text

Usage:

`awk+option+{awk command}+file+file to save`

Examples:

- Print the first column of every line of a file
 - `awk` `{print $1} ~/Documents/Csv/cars.csv`
- Print first field of /etc/passwd file
 - `awk -F: '{print $1}' /etc/passwd`
- Print the last field of the /etc/passwd file
 - `awk -F: '{print $NF}' /etc/passwd`

SED

Definition:

edit files without opening them

Usage:

`sed option+sed script+file`

Examples

- Replacing a string in given file (replace pizza for rice)
 - `sed 's/pizza/rice/' shopping-list.1st`
- Replacing the number of occurrences of a pattern in a file
 - `sed 's/pizza/rice/4' shopping-list.1st`
- Replacing all the occurrence of the pattern in a file
 - `sed 's/pizza/rice/g' shopping-list.1st`

Less

Definition:

a pager program that allows you to move around file and load file into memory

Usage:

`less+file to read`

Examples

- To read page of command `less ~/Documents/Books/dracula.txt`

>

Definition

it is a way to save standard output

Usage

`command output+>+file`

Examples

- Save the output of a command to a file
 - `ls -lA ~ > all-files-in-home.txt`
- Save the error generated by a command to a file
 - `ls -lA downloads. 2> error-of-ls`
- Save the error to a file and the success to another
 - `ls -lA downloads/ Pictures > success.txt 2> error.txt`

>>

Definition

Used to keep old data

Usage

`command output+>>+file`

Examples

To keep old data `ls -la >> allmyfiles.lst`

|

Definition:

The pipe allows you to redirect the standard output of a command to the standard input of another

Usage

`command_1 | command_2 | command_3 || command_N |`

Examples

- Use grep to look for a string in a particular man page
 - `man ls | grep "human-readable"`
- Display only the options of the command from its man page

- `man ls | grep "^[[:space:]]*[:punct:]`
- Display only 2nd line in a file
 - `head -2 file.lst | tail -1`