awk

Definition

A scripting language used for processing and displaying text. Awc can work with a text file or from standard output. Awk performs operations line by line.

Usage

- `awk + options + {awk command} + file + file to save (optional)`

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`

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sed

Definition

A stream editor that perform operations on files and standard output. By using sed you can edit files without opening them

Usage

- `sed options + sed script + file`

Examples

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

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less

Definition

a pager program that allows you to view text files one screen at a time

Usage

- `less + file to read`

Examples

- `less ~/Documents/Books/dracula.txt`
- `less ~/Documents/file.txt`

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alias

Definition

A shorthand for a more complicated command. Alias don not persist unless you save them in your .bashrc or .bash_aliases file

Usage

- `alias name_of_alias="command here"`

Examples

- An alias to upgrade a linux (debian system):
    - `alias update="sudo apt update; sudo apt upgrade -y; sudo apt full-upgrade -y"`
- An alias to clean your system from unneeded packages
    - `alias clean="sudo apt autoremove -y; sudo apt autoclean; sudo apt purge;"`

>

When using > on a file that already exists and contains data, it overwrites whatever is already inside the file

- `ls -ls > allmyfiles.lst`

>>

If you want to keep old data you use >>

- `ls -ls >> allmyfiles.lst`

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Allows you to redirect the standard output of a command to the standard input of another

- Use grep to look for a string in a particular man page
    - `man ls | grep "human-readable"`