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Cat

Definition

Used for displaying content of a file

Usage

`cat+option+file(s) to display`

Examples

- Display the content of a file located in the pwd
 - `cat todo.lst`
- Display the content of a file using absolute path
 - `cat ~/Documents/todo.lst`
- Display the content of a file with line numbers
 - `cat -n ~/Documents/todo.md`

Tac

Definition

Used for displaying on file in reverse order

Usage

`tac+option+files to display`

Examples

- Display content of a file in pwd
 - `tac todo.md`
- Display the content of a file using absolute path
 - `tac ~/Documents/todo.md`
- Display the content of a file using absolute path
 - `tac ~/Documents/todo.md`

Head

Definition

Prints the top N number of lines of data of the given input

Usage

`head+option+files`

Examples

- Display the first 10 lines of a file
 - `head ~ /Documents/Book/dracula.txt`
- Display the first 5 lines of a file
 - `head -5 ~ /Documents/Book/dracula.txt`
- Display the first 5 lines of multiple files
 - `head -n 5 dracula.txt bible.txt war-and-peace.txt`

Tail

Definition

Displays the last N number of lines of a given file

Usage

`tail+option+file`

Examples

- Display the last 10 lines of a file
 - `tail ~ /Documents/Book/dracula.txt`
- Display the last 5 lines of a file
 - `tail -5 ~ /Documents/Book/dracula.txt`
- Display the last 5 lines of multiple files
 - `tail -n 5 dracula.txt bible.txt war-and-peace.txt`

Cut

Definition

Used to extract a specific section of each line of a file and display it to the screen

Usage

`cut+option+files`

Examples

- Display a list of all the users in your system
 - `cut -d ':' -f1 /etc/passwd`
- Display a list of all the users in your system with their login shell
 - `cut -d ':' -f1,7 /etc/passwd`
- Cut a range of bytes per line
 - `cut -b 11-5 usernames.txt`

Sort

Definition

Used for sorting files

Usage

`sort+option+file`

Examples

- Sort a file
 - `sort user.lst`
- Sort a file and save the output to a new file
 - `sort -o sorted.lst users.lst`
- sort a file in reverse order
 - `sort -r users.txt`

WC

Definition

Used for printing the number of lines, characters and bytes in a file

Usage

`wc+option+file`

Examples

- Display the number of characters in a file
 - `wc -m users.txt`
- Display the number of lines in a file
 - `wc -l users.txt\`
- Display the number words in a file
 - `wc -w users.txt`

TR

Definition

Used for translating and deleting characters from standard output

Usage

`standard output | tr + option + set + set`

Examples

- Translate one character to another (for example a period with a comma)
 - `cat file.txt | tr '.' ','`
- Translate white spaces into tabs
 - `cat program .py | tr "[:space:]" '\t'`
- Translate tabs into space

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

Diff

Definition

Compares files and displays the difference between them

Usage

`diff+option+file1+file2`

Examples

- Display the difference between two files
 - `diff cars.csv cars-backup.csv`
- Display the difference between two files in a column format
 - `diff -y cars.csv cars-backup.csv`

Grep

Definition

Used to search text in a given file

Usage

`grep+option+search criteria+file`

Examples

- Search any line that contains the word "dracula" in the given file
 - `grep 'dracula' ~/Documents/dracula.txt`
- Search any line that contains the word 'dracula' regardless of the case
 - `grep -i 'dracula' ~/Documents/Book/dracula.txt`
- Search any line that contains the word 'dracula' regardless of the case and number line
 - `grep -v 'war' ~/Documents/Book/war-and-peace.txt`