notes7.md 2024-11-22

Notes 7

cat

- Definition
 - Used for displaying the content of a file.
- Formula
 - 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 excluding empty lines.
 - cat -b ~/Documents/todo.md

tac

- Definition
 - Used for displaying the content of a file in reverse order.
- Formula
 - tac + option + file(s) to display
- Examples
 - Display the content of a file located in the pwd.
 - tac todo.md
 - Display the content of a file using absolute path.
 - tac ~/Documents/todo.md
 - Display the content of a file with line numbers.
 - tac -n ~/Documents/todo.md

head

- Definition
 - Displays the top N number of lines of a given file.
- Formula
 - head + option + file(s)
- 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 line of multiple files using wildcards.
 - head -n 1 *.csv *.py

tail

notes7.md 2024-11-22

Definition

• Displays the last N number of lines of a given file.

• Formula

```
• 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/Books/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.

Formula

```
• cut + option + file(s)
```

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 1-5 usernames.txt

sort

- Definition
 - Used for sorting files.
- Formula
 - sort + option + file

• Examples

- Sort a file.
 - sort users.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.
- Formula
 - wc + option + file(s)

Examples

• Display the number of characters in a file.

notes7.md 2024-11-22

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

tr

- Definition
 - Used for 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 space into tabs.
 - cat file.py | tr -s "[:space:]" ' '
 - Translate tabs into space.
 - cat file.py | tr -s "[:space:]" '/t'

diff

- Definition
 - Compares files and displays the difference between them.
- Formula
 - 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
 - Treats all files as text.
 - diff -a cars.csv cars-backup.csv

grep

- Definition
 - Used to search text in a given file.
- Formula
 - grep + option + search criteria + file(s)
- Examples
 - Search any line that contains the word 'dinosaur' in the given file.
 - grep 'dinosaur' ~/Documents/jurassicpark.txt
 - Search any line that contains the word 'spinosaurus' regardless of the case.
 - grep -i 'spinosaurus' ~/Documents/Movies/jurassicpark3.txt
 - Search any line that contains the word 'velociraptor' regardless of case and with number line.
 - grep -in 'velociraptor' ~/Documents/Movies/jurassicpark1.txt