

Notes 7

Defintions of the following terms:

cat

- Definition:
 - Short for concatenate which is the command's intended use.
- Usage:
 - Used for displaying the content of a file
- Examples:
 - Basic Example:
 - `cat + option + file(s) to display`
 - 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`

tac

- Definition:
 - Tac concatenates files and displays the output of concatenation
- Usage:
 - Used for displaying the content of a file in reverse order
- Examples:
 - Basic Example:
 - `tac + option + files(s) to display`
 - 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`

head

- Definition:
 - Prints the first lines of one or more files (or piped data) to standard output

- Usage:
 - Used to display the top N number of lines of a given file.
 - Examples:
 - Basic Example:
 - `head + option + file(s)`
 - 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`
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tail

- Definition:
 - Prints the last few number of lines of a certain file
 - Usage:
 - Used to display the last N number of lines of a given file.
 - Examples:
 - Basic Example:
 - `tail + option + file`
 - 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`
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cut

- Definition:
 - A command-line utility that extracts specific sections of a specified file or piped data and prints the result to standard output
- Usage:
 - Used to extract a specific section of each line of a file and display it to the screen
- Examples:
 - Basic Example:
 - `cut + option + files(s)`
 - 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`
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sort

- Definition:
 - Supports sorting: alphabetically, in reverse order, by number, and by month.
 - Usage:
 - Used for sorting files
 - Examples:
 - Basic Example:
 - `sort + option + file`
 - Sort a file
 - `sort users.lst`
 - Sort a file in reverse order
 - `sort -r users.txt`
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wc

- Definition:
 - Counts the words, lines, and characters in a list of files
 - Usage:
 - Used for printing the number of lines, characters and bytes in a file
 - Examples:
 - Basic Example:
 - `wc + option + file(s)`
 - Display the number of characters in a file
 - `wc -m users.txt`
 - Display the number of lines in a file
 - `wc -l users.txt`
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tr

- Definition:
 - Translates or deletes characters

- Usage:
 - Used for translating or deleting characters from standard output
 - Examples:
 - Basic Example:
 - `Standard output | tr + option + set + set`
 - Translate one character to another (For example a period with a comma)
 - `cat file.txt | tr '.' ','`
 - Translate white space into tabs
 - `cat program.py | tr "[:space:]" '\t'`
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diff

- Definition:
 - A command-line utility that allows you to compare two files line by line
 - Usage:
 - Compares files and displays the differences between them
 - Examples:
 - Basic Example:
 - `diff + option + file1 + file2`
 - 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`
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grep

- Definition:
 - Works line by line basis (it matches the search criteria in a line by line basis)
- Usage:
 - Used to search text in given file
- Examples:
 - Basic Examples:
 - `grep + option + search criteria + file(s)`
 - 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/Books/dracula.txt`
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