

Notes 8

Defintions of the following terms:

awk

- Definition:
 - A scripting language used for processing and displaying text
- Usage:
 - Used to work with text files or from standard output. Performs operations line by line.
- Examples:
 - Basic Example:
 - `awk + options + {awk command} + file + file to save (optional)`
 - 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`

sed

- Definition:
 - A stream editor that performs operations on files and standard output
- Usage:
 - Can search, find and replace, insert, and delete.
- Examples:
 - Basic Example:
 - `sed options + sed script + file`
 - Replacing a string in given file (replace pizza for rice)
 - `sed 's/pizza/rice/' shopping-list.lst`
 - Replacing the number of occurrences of a pattern in a file
 - `sed 's/pizza/rice/4' shopping-list.lst`

less

- Definition:
 - A Linux terminal pager that shows a file's contents one screen at a time

- Usage:
 - Displays file contents or command output one page at a time in your terminal
 - Examples:
 - Basic Example:
 - `less + [options] + file_path`
 - Squeeze consecutive blank lines into a single line.
 - `less -s`
 - Suppress line numbers
 - `less -n`
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>

- Usage:
 - Overwrites whatever is already inside of a file
 - Examples:
 - Basic Example:
 - Command output + > + file
 - Save the output of a command to a file
 - `ls -lA ~ > all-files-in-home.txt`
 - Saves the error generated by a command to a file
 - `ls -lA downloads/ 2> error-of-ls`
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>>

- Usage:
 - Keeps the old data inside of a file whilst appending
 - Examples:
 - Basic Example:
 - Command output + >> + file
 - Create a file in your current directory
 - `echo "Welcome to Linux" >> my_file_2.txt`
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|

- Usage:
 - Redirect the standard output of a command to the standard input of another

- Examples:
 - Basic Example:
 - `command_1 | command_2 | command_3 | | command_N`
 - Use grep to look for a string in a particular man page
 - `man ls | grep "human-readable"`
 - Display only the options of any command from its man page
 - `man ls | grep "^[[:space:]]*[:punct:]"`
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