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Notes 8

awk

- Definition
 - Used for processing and displaying text.
- Formula

```
• 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 first and last field of the /etc/passwd file.
 - awk -F: '{print \$1," = ",\$NF}' /etc/passwd

sed

- Definition
 - Performs operations on files and standard output.
- Formula
 - 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 pattern in a file.
 - sed 's/pizza/rice/4' shopping-list.lst
 - Replacing from the given number occurrence to the rest occurrences in a file. Start at the second time the word appears and continue to till the end of the file.
 - sed 's/pizza/rice/3g' shopping-list.lst

less

- Definition
 - Used to display the contents of a file or a command output one page at a time.
- Formula
 - less + options + filename
- Examples
 - Viewing a small file.
 - less -F ~/Documents/godzilla/godzilla2014.erl
 - Viewing a file using absolute path.
 - less ~/Documents/dbz.txt
 - Viewing a file using relative path.
 - less ../dbz/goku.txt

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- Definition
 - Used to save standard output.
- Formula
 - output +> + file
- Examples
 - Save the output of a command to a file.
 - ls -lA ~ > all-files-in-home.txt
 - Save the error generated by a command to a file.
 - ls -lA downloads/ 2> error-of-ls
 - Save the error to a file and the success to another.
 - ls -lA downloads/ Pictures > success.txt 2> error.txt

>>

- Definition
 - Used to add more to a file instead of overwriting its content.
- Formula
 - o command + >> + file
- Examples
 - Add the output of ls -la to the end of the file allmyfiles.lst
 - ls -la >> allmyfiles.lst
 - Add text to the end of a file.
 - echo "I like dinosaurs" >> jurassic_park.txt
 - Add content of one file to another.
 - cat file1.txt >> file2.txt

• Definition

- Used to redirect the standard output of a command to the standard input of another.
- Formula

```
\circ command 1+|+command 2+|+command 3+|+...+|+command N
```

- Examples
 - 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:]]"
 - Display only the ip addresses from the output of the ip command.
 - ip addr | grep -Eo '[[:digit:]]{1,3}\.[[:digit:]]{1,3}\.
 [[:digit:]]{1,3}\.[[:digit:]]{1,3}'