

Weekly Report 5

What are Command Options?

Command Options modify/enhance their behavior

What are Command Arguments?

Command Arguments are the items open that the command acts on

Which command is used for creating directories? Provide at least 3 examples.

The command that creates directories is `mkdir`. To create a directory, type in the terminal the following:

```
mkdir + name of directory
```

Examples:

1. Create a directory in the present working directory

- `mkdir wallpapers`

2. Create a directory in a different directory

- `mkdir wallpapers/ocean`

- `mkdir ~/wallpapers/forest`

3. Creating a directory with a space in the name

- `mkdir wallpapers/new\ cars`

- `mkdir wallpapers/'cities usa'`

4. Create a directory with a single quote in the name

- `mkdir wallpapers/"majora's mask"`

5. Create multiple directories

- `mkdir wallpapers/cars wallpapers/cities wallpaper/forest`

6. Create a directory with a parent directory at the same time

- `mkdir -p wallpapers_others/movies`

What does the touch command do? Provide at least 3 examples.

Touch is used for creating files. To create a file, type in the terminal the following: `touch + file name`

Examples

1. Create a file called list

- `touch list`

2. Create several files

- `touch list_of_cars.txt script.py names.csv`

3. Creating using absolute/relative path

- `touch Downloads/games2.txt`

- `touch ~/Downloads/games2.txt`

4. Create a file with a space in its name

- `touch "list of foods.txt"`

How do you remove a file? Provide an example.

The `rm` command is for removing files. To remove a file, type in the terminal the following: `rm + name of file`

Examples

1. Remove a file and prompt confirmation before removal

- `rm -i list`

2. Remove all the files inside a directory and ask before removing more than 3 files

- `rm -I Downloads/games/*`

How do you remove a directory and can you remove non-empty directories in Linux? Provide an example Provide an example

To remove an **empty** directory, use the following command in the terminal: `rmdir`

Examples

1. Remove an empty directory

- `rmdir Downloads/games`

To remove a **non-empty** directory, use the following command in the terminal: `rm -r`

Examples

1. Remove a non-empty directory

- `rm -r Downloads/games`

Explain the mv and cp command. Provide at least 2 examples of each

MV COMMAND: The `mv` command moves and renames directories. To move a directory, use the following command in the terminal: `mv + source + destination` To rename a file, use the following command in the terminal: `mv + file/directory to rename + new name` Source --> the file or directory you want to move Destination --> the place where the file or directory is going

Examples

1. Move a file from a directory

- `mv Downloads/homework.pdf Documents`
- `sudo mv ~/Downloads/theme /usr/share/themes`

2. Move a file from one directory to another combining absolute path and relative path

- `mv Downloads/english_homework.docx /media student/flashdrive/`

3. Rename a file using absolute path

- `mv ~/Downloads/homework.docx ~/Downloads/cis106homework.docx`

4. Move *and* rename a file

- `mv Downloads/cis106homework.docx Documents/new_cis106homework.docx`

CP COMMAND: The cp command copies files/directories from a source to a destination. To copy a file, use the following command in the terminal: `cp + files to copy + destination`

To copy directories, use the following command in the terminal: `cp -r + directory to copy + directory`

Examples

1. Copy the content of a directory to another directory

- `cp Downloads/wallpapers/* ~/Pictures`

2. To copy multiple files in a single command

- `sudo cp -r script.sh program.py home.html assets/ /var/www/html/`

Practices

Practice 1:

```
sgilmore@cis106:~$ mkdir website
sgilmore@cis106:~$ mkdir ~/website/script ~/website/assets
sgilmore@cis106:~$ cd ~/website/
sgilmore@cis106:~/website$ ls
assets  script
sgilmore@cis106:~/website$ touch assets/image.png
sgilmore@cis106:~/website$ touch script/script.js
sgilmore@cis106:~/website$ tree
.
├── assets
│   └── image.png
└── script
    └── script.js

2 directories, 2 files
sgilmore@cis106:~/website$ rm assets/image.png script/script.js
sgilmore@cis106:~/website$ rmdir assets/ assets/
rmdir: failed to remove 'assets/': No such file or directory
sgilmore@cis106:~/website$ rmdir ~/website/script/
sgilmore@cis106:~/website$ CD
CD: command not found
sgilmore@cis106:~/website$ cd
sgilmore@cis106:~$ rmdir ~/website/
```

Practice 2:

```
sgilmore@cis106:~$ cd /usr/share/
sgilmore@cis106:/usr/share$ mkdir /home/sgilmore/website
sgilmore@cis106:/usr/share$ mkdir -p ~/website/assets/images/small
sgilmore@cis106:/usr/share$ touch ~/website/assets/images/small/logo.png
sgilmore@cis106:/usr/share$ rm ~/website/assets/images/small/logo.png
sgilmore@cis106:/usr/share$ rmdir -r ~/website/
rmdir: invalid option -- 'r'
Try 'rmdir --help' for more information.
sgilmore@cis106:/usr/share$ rm -r ~/website/
```

Practice 3:

```
sgilmore@cis106:~$ mkdir website
sgilmore@cis106:~$ mkdir ~/website/assets
sgilmore@cis106:~$ curl https://cis106.com/assets/samplesite.txt -o ~/website/index.html
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100  372  100  372    0     0  1704      0 --:--:-- --:--:-- --:--:-- 1714
sgilmore@cis106:~$ mv Downloads/pexels-
pexels-moldy-vintages-13139097.jpg pexels-paige-thompson-13990659.jpg
sgilmore@cis106:~$ mv Downloads/pexels-moldy-vintages-13139097.jpg website/assets/
sgilmore@cis106:~$ mv Downloads/pexels-paige-thompson-13990659.jpg website/
assets/      index.html
sgilmore@cis106:~$ mv Downloads/pexels-paige-thompson-13990659.jpg website/assets/
sgilmore@cis106:~$ mv website/assets/pexels-moldy-vintages-13139097.jpg website//assets/image.png
sgilmore@cis106:~$ mv website/assets/pexels-paige-thompson-13990659.jpg website/assets/image2.png
sgilmore@cis106:~$ xdg-open website/
sgilmore@cis106:~$ xdg-open website/index.html
```

Practice 4:

```
sgilmore@cis106:~$ mkdir website/docs
sgilmore@cis106:~$ cp Downloads/sample1.doc website/docs/
sgilmore@cis106:~$ cp Downloads/sample1.xls website/docs/
sgilmore@cis106:~$ cp Downloads/sample1.pdf website/docs/
sgilmore@cis106:~$ tree website/
website/
├── assets
│   ├── image2.png
│   └── image.png
├── docs
│   ├── sample1.doc
│   ├── sample1.pdf
│   └── sample1.xls
└── index.html

2 directories, 6 files
```