

1 Navigation

1.1 File System

1.2 ls

- looks at the directory you are in
- lists all the files and directories inside of it

1.3 pwd

- stands for “print working directory.”
- prints the path of directory you are currently in
- Together `ls`, the `pwd` are useful to show where you are in the filesystem.

1.4 cd

- stands for “change directory.”
- switches you into the directory you specify.

Example

```
cd 2015
```

– 2015 is called argument

- `..` is used to move up directory

Example

```
cd ..
```

1.5 mkdir

- stands for “make directory”
- takes in a directory name as an argument and then creates a new directory in the current working directory.

1.6 touch

- creates a new file inside the working directory.
- takes in a filename as an argument and then creates an empty file with that name in the current working directory.

1.7 Helper Commands

- `clear` - clears terminal
- `tab` - autocomplete your command
- up down arrows - cycle through previous commands
 - down arrow - most recent command

1.8 Review

- the command `line` is the interface for computer's operating system
- A `filesystem` organizes a computer's files and directories into a tree structure
- Navigating through directory
 - `pwd` outputs the name of the current working directory.
 - `ls` lists all files and directories in the working directory.
 - `cd` switches you into the directory you specify.
 - `mkdir` creates a new directory in the working directory.
 - `touch` creates a new file inside the working directory.

1.9 Quiz

- What does the following command do?
 - a) It creates a file named `popular.txt` in the `media` directory.
 - b) It creates a file named `popular.txt` in your working directory.
 - c) It changes the working directory to the `media` directory.
 - d) This command is not formed correctly.

Answer: A

- If the current working directory is `home/`, which of the following commands will navigate to the `movies/` directory in the tree below?
 - a) `cd movies`
 - b) `mkdir media/movies`
 - c) `ls media/movies`
 - d) `cd media/movies`

Answer: D

- How do you print the current working directory?

- a) mkdir
- b) pwd
- c) cd
- d) ls

Answer: B

- How would you change to one directory above the current working directory?

- a) cd ..
- b) cd ../..
- c) ls ..
- d) mkdir ..

Answer: A

- What is a filesystem?

- a) It organizes a computer's files and directories into a tree structure.
- b) It's a type of directory.
- c) It's a text interface with a computer.
- d) It is a directive to the computer to perform a specific task.

Answer: A

- What is a directory?

- a) A file
- b) A command to a computer
- c) A tree structure
- d) A folder used to store files

Answer: D

- How would you create a file named text.txt in your current directory?

- a) ls text.txt
- b) mkdir text.txt
- c) touch text.txt
- d) touch home/text.txt

Answer: C

2 Project: Bicycle world

2.1 Task Solution

1. `pwd`
2. `ls`
3. `cd freight/`
4. `ls`
5. `cd porteur/`
6. `pwd ../../ls`
7. `cd mountain/downhill`
8. `touch dirt.txt`
9. `touch mud.txt`
10. `ls`
11. `mkdir safety`
12. `cd ../../`
13. `ls`
14. `mkdir bmx`
15. `touch bmx/tricks.txt`
16. `ls`