



Bash

Files and folders (directories)



Directories

The filesystem could be viewed as a tree structure with the root directory / at the top. In each directory, there can be zero or more files and other directories. A file or directory can only exist in one folder at the time. In other words, every directory has only one parent directory, but can have many child directories.

```
/
|-- resources
|   |-- images
|   |-- sounds
|   `-- videos
`-- src
    |-- database
    |-- domain
    `-- net
```

Making directories

You create directories using the `mkdir` command:

```
$ mkdir mp3
```

(make a directory with the name “mp3”)

Remove (an empty directory) with `rmdir`:

```
$ rmdir mp3
```

Remove a directory with all its contents (including subdirectories):

```
$ rm -r mp3
```

Moving around

Absolute path: the full path from the root directory / to a file or directory - a path that is valid from any directory to any destination.

Relative path: the path to a file or directory somewhere below the current working directory - a path that is valid only to destinations below the current directory.

Moving around

From `/home/Ada/` to `/home/Ada/some/directories/destination` the absolute path would be:

```
/home/Ada/some/directories/destination
```

Relative path:

```
some/directories/destination
```

Moving around

To enter a directory, you use the `cd` command. You can give it the absolute or relative path to the directory you want to go to. An absolute path starts with the root directory `/` (so it is the same regardless of where you are) and a relative path assumes the directory is somewhere below your current working directory.

Let's say you are in `/home/Ada` (the Ada user's home directory). You want to go to the directory `school/assignments/bash` which is below the `/home/Ada` directory.

Moving around

The absolute path would be:

```
/home/Ada/school/assignments/bash
```

and the relative path would be:

```
school/assignments/bash
```

so you could use either command to go there:

```
$ cd /home/Ada/school/assignments/bash
```

```
# OR:
```

```
$ cd school/assignments/bash
```