



ft_Is

Elements reflectance

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Abstract: This paper summarizes the elements of reflection to start your ft_Is.

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chapter I

Some reading

- The concepts of C you need have already been seen during the pool.
- You will, by cons, need to become familiar with a number of features that you are still unknown, such as:
 - opendir / readdir / closedir
 - stat / lstat
 - getpwuid / getgrgid
 - time / ctime
 - readlink
 - perror / strerror
- A good starting point would be to read (full!) The man associated with these functions (man 2 or man 3).
- Some of these man Examples include use of very telling. For others, you can easily find with your friend Google.
- Of course, reading the man of ls is absolutely essential for the proper understanding and implementation of this project!

chapter II

To start well

Here are some ideas for programs whose implementation will help you do your project.

II.1 List a directory

- Write a program that uses functions `opendir`, `readdir` and `closedir` to open a directory and list the names of its contents on the console.
- example:

```
$> Mkdir -p foo / tyty $> touch foo / {tata titi tutu}
$> ./ft_list_dir toto tata titi tutu $ tyty>
```

II.2 Get information about a file

- Write a program that takes a file as a parameter and uses, among others, the function `stat` for information on this file and display them on the screen.
- example:

```
$> ./ft_inspect_file un_fichier_de_ouf Name: un_fichier_de_ouf
Type: File options: rwxr-xr-x Number of Links: 1 Owner: zaz
Group: Staff Size: 2142 bytes
```

```
Date of last update: 17 September 11:42 p.m. $>
```

- You'll have to use several functions, given at the beginning of this document, in order to interpret the information returned by `stat`!