



ft\_ls

Just a few ideas

Pedago [pedago@42.fr](mailto:pedago@42.fr)

*Summary: This document presents a few ideas to get started with your ft\_ls.*

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# Chapter I

## Some reading

- The C notions that you need for this project were already addressed during your Piscine.
- However, you will need to learn some new functions, for example :
  - opendir / readdir / closedir
  - stat / lstat
  - getpwuid / getgrgid
  - time / ctime
  - readlink
  - perror / strerror
- A good starting point would be to read (entirely!) the **man** associated to these functions (man 2 or man 3).
- Some of these **man** include some relevant use cases. For the others, you can find them with your only true friend **Google**.
- Obviously, reading the **ls man** is absolutely essential to understand and realize properly this project !

# Chapter II

## Get started

Here are just a few ideas of programs to help you get off to a good start.

### II.1 List a directory

- Write a program that uses the `opendir`, `readdir` and `closedir` functions to open a folder and list the names of its files on the standard output.
- Example :

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

### II.2 Get a file's data

- Write a program which takes a file as a parameter and uses, among others, the `stat` function to get the file's information and display it on screen.
- Example :

```
$>./ft_inspect_file a_crazy_file
Name: a_crazy_file
Type: File
Modes: rwxr-xr-x
Number of links: 1
Owner: zaz
Group: staff
Size: 2142 octets
Last modification date: Sep 17 23:42
$>
```

- You will have to use several functions, listed at the top of this pdf, to interpret properly the data returned by the `stat` function!