



Introduction to the Command Line Summary

Concept

Interface

.
.

Terminal

.

PS1

.

CLI

.
.

Executables

.
.
.
.

Environment variables

Permission's access types
and Ownership levels

.
.
.
.
.
.

Definition

An interface is a system that consists of two parts :
A display of information about what the computer is doing.
A method to tell the computer what to do.

A program used to run other programs, like a shell, through a text only interface.

represents the prompt which follows this format:
[user]@[hostname]:[current_directory]\$

The Command Line Interface is an interface to your computer's files and directories which consists of 4 components =
input + output + prompt + cursor.

Are special kind of files they:
have special characters at the beginning to tell the computer how to execute them.
have executables permissions.
have scripts or machine language as their content.

provide context to commands for what you do in the command line

```
# +----- Directory or not
# | +----- User Read, Write, Execute
# | | +----- Group Read, Write, Execute
# | | | +----- Other Read, Write, Execute
# | | | | +--- The name of the user
# | | | | | +--- The name of the group
# | | | | | |
# d|rx|rx|rx user group
```

\$PATH

.

is an ordered (first found, first executed), colon delimited, list of directories that contain executables

Permission's assignment

.

.

.

.

.

.

.

0 no permissions granted

1 execute

2 write

3 execute + write

4 read

5 execute + read

6 write + read

7 execute + write + read