

# Rust

$\ln$  = saut de ligne =  $\ln$

\* Rust is a system programming language, inspired by C, C++

\* Rust is for:

- systems programming
- web dev
- online services

\* Why Rust?

- Speed
- Safety
- Cargo - manager
- Error Messages
- binding with C
- Threads without data-races

\* The basic Program:

→ .rb extension

→ fn main()

Fun notation      declare a main Fun

→ println!("Hello");

printing      str      semi-colon

\* The basics Formatting:

→ println!("{}", 1)

\* Printing style

Macro	Printing style
<code>print!()</code>	Afficher le txt + sans saut ligne
<code>println!()</code>	" " + saut de ligne
<code>eprint!()</code>	
<code>eprintln!()</code>	

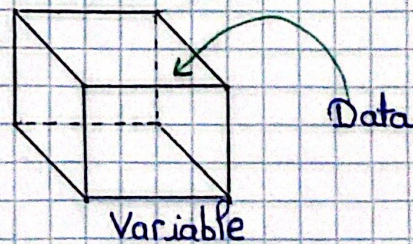
\* Comments:

→ //

→ /\* \*/

→ ///

\* Variables:



→ Create a var

`let var;`

Identifier      var name      semicolon

⚠ \* lowercase

\* no space only (-)

→ Initialize a var

`let var = "Rust";`

→ mutable var

`let mut var = "Rust";`