

Rust Hello World

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The Rust programming language is syntactically similar to C++ and is designed for performance and safety, especially safe concurrency.

1 Installation

The usual assumption is that you need to install `rust` in order to use or compile `rust`. However, you must install `rustc` in order to compile programs written in Rust.

```
aptitude install rustc
```

For Debian 10 Buster the dependencies are:

```
1 cargo gdb libbabeltrace-ctf1 libbabeltrace1 libc6-dbg libdw1 libhttp-parser2
  .1
2 libllvm7 libstd-rust-1.34 libstd-rust-dev rust-gdb
```

For Debian 11 Bullseye the dependencies are:

```
1 cargo gdb libbabeltrace1 libc6-dbg libdebuginfod1 libsource-highlight-common
2 libsource-highlight4v5 libstd-rust-1.48 libstd-rust-dev rust-gdb
```

2 Hello World

The famous source code for 'Hello World!' in Rust is:

```
echo 'fn main() {' > hello-world.rs
echo '    println!("Hello World!");' >> hello-world.rs
echo '}' >> hello-world.rs
```

This will give the file `hello-world.rs` with the content

```
fn main() {
    println!("Hello World!");
}
```

Compiling

```
rustc hello-world.rs
```

Executing

```
./hello-world
Hello World!
```

3 Documentation

- [Website](#)
- [Official book](#)
- [Official syntax reference](#)
- [Repository web page](#)
- [Repository](#)

4 History

Version	Date	Notes
0.1.3	2023-01-18	Improve writing, add hello-world.rs link

Version	Date	Notes
0.1.2	2022-10-26	Documentation
0.1.1	2022-07-07	Debian 11 Bullseye, shell->bash, commands
0.1.0	2020-09-05	Initial release

5 Disclaimer of Warranty

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