

## The Rust programming language Summer 2024 / 2025

### Exercises

**Number 0** This “exercise” sheet is there to help you install the tooling required for programming in Rust.

#### 1. Install Rust:

- Open a terminal
- On Linux, run `sudo apt install gcc`
- On mac, run `xcode-select --install`
- Go to <https://www.rust-lang.org/learn/get-started>
- Follow the instructions. On a Linux or mac, usually running `curl --proto '=https' --tlsv1.2 -sSf https://sh.rustup.rs | sh` is enough.
- Run `cargo --version`.

If you have a problem on Linux or mac, check your `~/.bashrc` file and add `. "$HOME/.cargo/env"` if it is not present. Maybe check your `~/.zshrc` if you use `zsh`? (not tested)

If you have a problem and are using Windows, I cannot help. It's time to learn Linux I guess...

#### 2. Install an editor:

Any editor will do. If you want to have the same UI as me, go to <https://code.visualstudio.com/>, download and install it. I recommend the following extensions:

- <https://marketplace.visualstudio.com/items/?itemName=rust-lang.rust-analyzer>
- <https://marketplace.visualstudio.com/items/?itemName=dustypomerleau.rust-syntax>
- <https://marketplace.visualstudio.com/items/?itemName=usernamehw.errorlens>
- <https://marketplace.visualstudio.com/items/?itemName=tamasfe.even-better-toml>

Turn on `editor.formatOnSave` to format your code each time you save it.

Set `rust-analyzer.check.command` to `clippy` for better lints.

Tip: on Linux, running `cargo new project` and `code project` creates a project and opens it in VSCode.

#### 3. (optional) Install rustlings. Some of the first exercises of this course come from rustlings, so if you want a more interactive experience, go to <https://github.com/rust-lang/rustlings> and follow the instructions.