

CMPT 383: Vitamin #6

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Introduction

This Vitamin is here just to help you set up and install Rust, set up and install your IDE, and learn some commands for interacting with Rust.

There is no submission or grading for this Vitamin. You should attend office hours if you have difficulties with setup.

1 Installing rustup

Download rustup using the installation instructions from <https://www.rust-lang.org/tools/install>.

You should install rustup with all the default options.

2 Setting up a Rust Environment Within VS Code

1. Open VS Code.
2. Click the “Extensions” tab
3. Search “rust-analyzer”
4. Click “Install” on the “rust-analyzer” extension, by developer “The Rust Programming Language”
5. Click File > Open Folder, and navigate to the unzipped v0 directory that this pdf was inside
6. Navigate to the “src” directory, and open “main.rs”

3 Running Your First Rust Program

Like many languages, executing a Rust program runs the code in the “main” function. We can compile and run a Rust program in our IDE. Open up a new terminal in VS Code (Terminal > New Terminal).

The terminal should print out v6 \$. Type `cargo build` to build the program. into the terminal and press enter. You should see a few lines of build information. To run the newly compiled program, type `cargo run` to run the program, which should output “Hello, Rust!”. Running `cargo run` will build and run the program, if it isn’t already built.

4 Running Rust Test Suites

The Cargo system we are using has built-in support for running test suites. In the open terminal, type `cargo test`. This should output “test result: ok”.