Rust + Cargo Install Guide:

Step 1) Ensure that you have VSCode installed on your machine, this is Rust's preferred text editor. Ensure that you have the "Code . " shortcut added to PATH, this is required later. CODE . PATH TUTORIAL https://rb.gy/5xnfbt



https://code.visualstudio.com/download

Step 2) Gp to <u>https://www.rust-lang.org/tools/install</u> It will auto detect what operating system you're on and give you an installer.



| Using rustup (Recommended) | _ | | | |
|---|-----------------------------------|--|--|--|
| It looks like you're running Windows. To start using Rust, download the installer, then run the program and follow the onscreen instructions. You may need to install the <u>Visual Studio C++ Build tools</u> when prompted to do so. If you are not on Windows see <u>"Other</u> Installation Methods". | | | | |
| DOWNLOAD RUSTUP-INIT.EXE (32-BIT) | DOWNLOAD RUSTUP-INIT.EXE (64-BIT) | | | |
| Windows Subsystem for Linux | | | | |
| If you're a Windows Subsystem for Linux user run the following in your terminal, then follow the on-screen instructions to install Rust. | | | | |
| curlproto '=https'tlsv1.2 -sSf https://sh.rustup.rs sh | | | | |
| | | | | |

Step 3) run the file downloaded and press 1.



Once done type these commands to ensure things are installed correctly.

| rustcversion | |
|---------------------------|------------------------|
| <mark>cargoversion</mark> | |
| rustupversion | |
| | |
| :\Users\coco | on>rustcversion |
| rustc 1.46.0 | (04488afe3 2020-08-24) |
| | n)cargoversion |
| argo 1.46.0 | (149022b1d 2020-07-17) |
| | n)rustupversion |
| rustup 1.22.1 | (b01adbbc3 2020-07-08) |
| | |

:\Users\cocon>

Step 4) Once things are set up, you're ready to create your first program. Start by creating a new file in your main hard drive, I called mine CSC301, then create another folder in that folder called Rust.

From the command line, cd into that folder and type "cargo new [file_name] in our case, filename will be hello_world.

C:\Users\cocon\Documents\CSC301\Rust>cargo new helloworld Created binary (application) `helloworld` package

C:\Users\cocon\Documents\CSC301\Rust>

Once it creates the binaries and the filesystem, type "cd hello_world", then "cd src"

C:\Users\cocon\Documents\CSC301\Rust>cd helloworld

C:\Users\cocon\Documents\CSC301\Rust\helloworld>cd src

```
:\Users\cocon\Documents\CSC301\Rust\helloworld\src>
```

Then once inside of the src folder type "code ." this brings the src file into VScode.

:\Users\cocon\Documents\CSC301\Rust\helloworld\src>code .

```
:\Users\cocon\Documents\CSC301\Rust\helloworld\src>
```

You'll be able to open the premade main.rs file which by default prints hello world!

| EXPLORER | | | ® main.rs × |
|--------------------|---|----------|---|
| > OPEN EDITORS | | | 🐵 main.rs |
| ✓ SRC ⓐ main.rs | 1 | บ ฮ บ | <pre>1 fn main() { 2 println!("Hello, world!"); 3 } 4</pre> |

Step 5) To compile and run your code, go to the command line and make sure that it's opened to the src file still. Type "cargo build" and 'cargo run"

