# The Rust Programming Language

![Build Status](https://github.com/rust-lang/book/workflows/CI/badge.svg)

This repository contains the source of "The Rust Programming Language" book.

[The book is available in dead-tree form from No Starch Press][nostarch].

[nostarch]: https://nostarch.com/rust-programming-language-2nd-edition

You can also read the book for free online. Please see the book as shipped with the latest [stable], [beta], or [nightly] Rust releases. Be aware that issues in those versions may have been fixed in this repository already, as those releases are updated less frequently.

[stable]: https://doc.rust-lang.org/stable/book/

[beta]: https://doc.rust-lang.org/beta/book/

[nightly]: https://doc.rust-lang.org/nightly/book/

See the [releases] to download just the code of all the code listings that appear in the book.

[releases]: https://github.com/rust-lang/book/releases

## Requirements

Building the book requires [mdBook], ideally the same version that

[mdBook]: https://github.com/rust-lang/mdBook [rust-mdbook]: https://github.com/rust-lang/rust/blob/master/src/tools/rustbook/Cargo.toml ```bash \$ cargo install mdbook --locked --version <version num> The book also uses two mdbook plugins which are part of this repository. If you do not install them, you will see warnings when building and the output will not look right, but you will still be able to build the book. To use the plugins, you should run: ```bash \$ cargo install --locked --path packages/mdbook-trpl --force ` ` ` ## Building To build the book, type: ```bash \$ mdbook build

rust-lang/rust uses in [this file][rust-mdbook]. To get it:

your web browser. Firefox: ```bash \$ firefox book/index.html # Linux \$ open -a "Firefox" book/index.html # OS X \$ Start-Process "firefox.exe" .\book\index.html # Windows (PowerShell) \$ start firefox.exe .\book\index.html # Windows (Cmd) . . . Chrome: ```bash \$ google-chrome book/index.html # Linux \$ open -a "Google Chrome" book/index.html # OS X \$ Start-Process "chrome.exe" .\book\index.html # Windows (PowerShell) \$ start chrome.exe .\book\index.html # Windows (Cmd) To run the tests: ```bash \$ cd packages/trpl \$ mdbook test --library-path packages/trpl/target/debug/deps

The output will be in the 'book' subdirectory. To check it out, open it in

## ## Contributing

We'd love your help! Please see [CONTRIBUTING.md][contrib] to learn about the kinds of contributions we're looking for.

[contrib]: https://github.com/rust-lang/book/blob/main/CONTRIBUTING.md

Because the book is [printed][nostarch], and because we want to keep the online version of the book close to the print version when possible, it may take longer than you're used to for us to address your issue or pull request.

So far, we've been doing larger revision coincide with [Rust а to Editions](https://doc.rust-lang.org/edition-guide/). Between those larger revisions, we will only be correcting errors. If your issue or pull request isn't strictly fixing an error, it might sit until the next time that we're working on a large revision: expect on the order of months or years. Thank you for your patience!

## ### Translations

We'd love help translating the book! See the [Translations] label to join in efforts that are currently in progress. Open a new issue to start working on a new language! We're waiting on [mdbook support] for multiple languages before we merge any in, but feel free to start!

## [Translations]:

https://github.com/rust-lang/book/issues? q=is%3 Aopen+is%3 Aissue+label%3 ATranslations

[mdbook support]: https://github.com/rust-lang/mdBook/issues/5

## ## Spellchecking

To scan source files for spelling errors, you can use the `spellcheck.sh` script available in the `ci` directory. It needs a dictionary of valid words, which is provided in `ci/dictionary.txt`. If the script produces a false positive (say, you used the word `BTreeMap` which the script considers invalid), you need to add this word to `ci/dictionary.txt` (keep the sorted order for consistency).