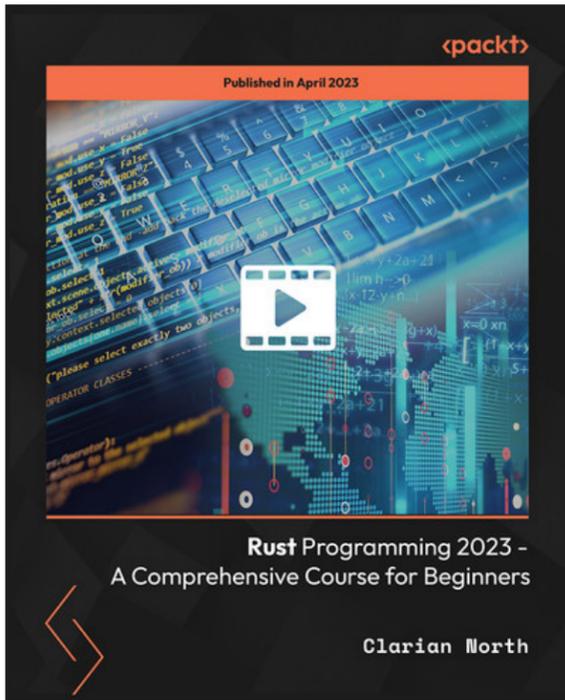


Rust Programming 2023 - A Comprehensive Course for Beginners

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By [Clarian North](#)



TIME TO COMPLETE:
6h 42m

LEVEL:
Intermediate

TOPICS:
Rust

PUBLISHED BY:
Packt Publishing

PUBLICATION DATE:
April 2023

Start

Over 300 of the biggest companies in the world reportedly use Rust in their tech stacks, including Dropbox, Sentry, and Brilliant. Rust is mostly used if you are looking for work in project types such as web development, systems programming, and CLI tools.

In this course, you will build multiple complex programs from scratch for your portfolio! In these projects, you will learn how to think and properly develop your ideas into written code, including how to maximize your time. You will master the Rust fundamentals: variables, if/else, operators, Boolean logic, String Object, functions, arrays, modifiers, macros, loops, strings, vectors, object handling, concurrency, memory allocation, stack versus the heap, and more.

You will understand Rust from the beginning: public and private visibility, struct and enums, special macros and variables, functions, HashMaps, and more. Additionally, you will also see how Rust works behind the scenes: memory safety and data races, events and error handling, scoping, threading, and more.

Next, we will deep dive into functions, methods, closures, recursion, main function, and more. Finally, you will deep dive into object-oriented programming: Structs and Enum building from scratch, GenericTypes, and traits for libraries and modules.

By the end of the course, you will have the knowledge and confidence that you need to ace your Rust job interviews and become a developer for programming in Rust.

Why You Will Learn

- Get introduced to basic concepts, issues, and use cases of Rust
- Learn how Rust and safe memory really works under the hood
- See public and private visibility, and struct and enums in Rust
- Look at the functions, methods, closures, and recursion in Rust
- Study variables, if/else, operators, Boolean logic, and functions in Rust
- Study arrays, modifiers, macros, loops, strings, and vectors in Rust

About The Author

Clarian North: Clarian North is a recognized industry-certified instructor, CEO of Orbital LLC, and a senior project engineer with over 90K enrolments worldwide. His students have gone on to work for some of the biggest production companies such as Universal, Google, Amazon, Warner, and the BBC. He has contributed to viral streams, grown a unique digital imprint in over 80 countries, and been featured in [Bloomberg](#), and [Vice](#).

He has worked for majors, including Grammy-nominated and award-winning productions, mixing for Emirates Airline Inflight Radio, and

Downloading "Data Races in Rust.mp4"...

producing for Kompakt Records. He is dedicated to giving accessible and comprehensive tech courses, teaching complex subject matter with clear and example-based explanations, and guiding students through complex techniques with just a computer and free software.



About the Publisher

Packt helps real-world developers put software to work in new ways with over 7,500 practical books and videos covering over 1,000 technologies. With coverage ranging from introductory programming to new and emerging technologies, as well as expert advice from industry-leading figures, Packt has great content for any technical professional looking to stay relevant and keep their skills up-to-date.

Resources

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