

Rust Programming Essentials

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By [Andy Olsen](#)



TIME TO COMPLETE:
19h 59m

TOPICS:
[Rust](#)

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20 Hours of Video Instruction

Learn Rust programming from the ground up and create real-world applications.

Rust Programming covers all the aspects of mastering the Rust language, from foundational to advanced levels. This video course will help you learn how to apply Rust to real-world scenarios through clear training and detailed examples.

The Rust language combines the efficiency, speed, and low-level power of C/C++ with the benefits of higher-level languages such as Java, Python, and C#, and you can use it to implement all kinds of solutions including embedded systems, DevOps operators, operating systems and platforms, and much more besides.

In the course, you will learn about the Rust toolset, the Rust type system, how to implement flow control, how to use compound types and collections, and how Rust carefully manages the lifetime of objects and how they are referenced safely in your code.

The course also looks at how to organize Rust applications into functions, structures, and traits. You will learn how to use these techniques to achieve familiar object-oriented goals such as abstraction, encapsulation, inheritance, and polymorphism. You will also learn how Rust deals with important issues such as generic types and multithreading.

You will learn how to structure large applications in Rust through detailed walkthrough of two complete real-world applications. Experienced trainer Andy Olsen will systematically teach you the skills needed to start using Rust effectively and efficiently.

Topics included in this course:

- Module 1: Rust Programming Essentials
- Module 2: Rust Ownership and Borrowing
- Module 3: Structuring Rust Code
- Module 4: Advanced Rust Programming Concepts
- Module 5: Real-World Rust in Action

About the Instructor

Andy Olsen is a freelance consultant, instructor, and developer with more than 30 years of experience in IT. Andy began his professional career as a C/C++ developer and transitioned into Java, C#, and other languages as the years passed. Andy is actively involved in a wide range of technologies including full-stack development, cloud native applications, data science, and more. Andy is passionate about technology education and runs training courses around the world across diverse market sectors.

Skill Level:

- Beginner to Intermediate

Learn How To:

- Create, build, and run Rust applications
- Organize Rust code and application structure properly
- Manage memory safely and effectively
- Use object-oriented programming techniques
- Implement concurrency
- Explore additional Rust techniques
- Implement file handling
- Access a relational database

Course requirement:

- None

Who Should Take This Course:

- Developers that need to learn how to write efficient and well-structured Rust applications.

About Pearson Video Training:

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