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The Rust

Programming

Language

The Rust Programming Language

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some malicious virus
inside their laptop.

the rust
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through the Rust

Programming book

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language Why You

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The Rust

~~Rust Programming
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Rustlang Hank Green
explains the Rust
programming
language The Rust
Programming
Language Stanford
Seminar - The Rust
Programming
Language All About
Rust Back to Go, Rust
is Sloooowww. Why I

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The Rust

~~am creating videos
about Rust
(Programming
Language)~~

Top 4 Dying
Programming
Languages of 2019 |
by Clever
Programmer ~~Rust vs
Go - Which is Better
and Why?~~ Should You
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Learn Rust
Programming In 1

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The Rust

Video When would I
use Go and when
would I use Rust?

~~Rust in the Browser~~
~~for JavaScripters:~~
~~New Frontiers, New~~
~~Possibilities~~ Rust in
2018 - A Fast Tour
What is Rust? Rust,
WebAssembly, and
the future of
Serverless by Steve
Klabnik Rust: A
Language for the

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The Rust

Next 40 Years - Carol

Nichols The Rust

Programming

Language Chapter 1

A Case for Oxidation:

The Rust

Programming

Language Rust

Programming

Techniques Why rust

is getting popular

CSIAC Podcast -

Introduction to the

Rust Programming

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The Rust

Programming Language - Rust

Models Part 1 The

Rust Programming

Language

Rust is blazingly fast and memory-efficient: with no runtime or garbage collector, it can power performance-critical services, run on embedded devices, and easily integrate with other

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The Rust

Programming Language. Reliability.

Rust 's rich type system and

ownership model

guarantee memory-

safety and thread-

safety — enabling

you to eliminate

many classes of bugs

at compile-time.

Rust Programming

Language

Rust is a multi-

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The Rust

Programming

Language

paradigm programming language designed for performance and safety, especially safe concurrency. Rust is syntactically similar to C++, but can guarantee memory safety by using a borrow checker to validate references. Rust achieves memory safety

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The Rust

without garbage
collection, and
reference counting is
optional.

Rust (programming
language) -

Wikipedia

Rust Programming
Language A general
purpose

programming
language that
focuses more on

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The Rust

Programming
Language
safety and
concurrency whose
syntax is similar to
C++ is called Rust
programming
language. It has high
performance when
compared with other
programming
languages and
maintains memory
safe features. It also
provides high system
integrity.

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The Rust

Programming

What is Rust

Programming? |

Choosing Rust as

Programming ...

The Rust

Programming

Language The Rust

Programming

Language by Steve

Klabnik and Carol

Nichols, with

contributions from

the Rust Community

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The Rust

This version of the
text assumes you 're
using Rust 1.41.0 or
later with
edition="2018" in
Cargo.toml of all
projects to use Rust
2018 Edition idioms.

The Rust

Programming

Language

Rust programming

language: Crates

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The Rust

Programming Language
package API tokens
revoked over serious
security flaw

Programming
languages: Now Rust
project looks for a
way into the Linux
kernel

Linux Foundation:
We'll host Mozilla's
Rust programming ...
Rust is a
programming

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The Rust

language that offers
the performance of C
and C++ but with
safeguards to stop
developers shooting
themselves in the
foot. More about
Innovation
Automation, it's
what's for ...

Rust programming
language: Seven
reasons why you

Page 17/90

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The Rust

Programming Language

should ...
Ferris is the unofficial mascot of the Rust Community. Many Rust programmers call themselves

“ Rustaceans, ” a play on the word “ crustacean. ” We refer to Ferris with the pronouns “ they, ” “ them, ” etc., rather than with gendered pronouns.

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The Rust

Ferris is a name playing off of the adjective,

“ferrous,” meaning of or pertaining to iron.

Getting started - Rust Programming Language

r/rust: A place for all things related to the Rust programming language—an open-

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The Rust

Programming

Language that
emphasizes

performance,

reliability ... Press J to
jump to the feed.

Press question mark
to learn the rest of
the keyboard
shortcuts

The Rust

Programming

Language - reddit

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The Rust

The Rust Programming

programming

Language
language is an open source, community project governed by a core team. It is also sponsored by the Mozilla Foundation (“ Mozilla ”), which owns and protects the Rust and Cargo trademarks and logos (the “ Rust Trademarks ”). If you

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The Rust

Programming
Language
want to use these
names or brands,
please read the
media guide.

GitHub - rust-
lang/rust:

Empowering
everyone to build ...
Rust programming
language, which was
developed by Mozilla,
has become quite
popular among a

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The Rust

fraction of developers.

It includes Microsoft engineers who are experimenting with Rust to reduce...

Developers Reveal
Why Rust
Programming
Language Is Losing ...
The latest open-
source project to be
hosted on the Linux
Foundation is Servo,

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The Rust

the experimental
web engine
developed at

Linux Foundation:
We'll host Mozilla's
Rust programming ...
The Rust
programming
language helps you
write faster, more
reliable software.
High-level
ergonomics and low-

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The Rust

level control are

often at odds in
programming

language design;

Rust challenges that
conflict.

Introduction - The
Rust Programming
Language

The Rust

Programming

Language covers

everything from basic

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The Rust

Programming Language
concepts like variable bindings, control flow, functions, and error handling, to more advanced topics, such as crates, generics, concurrency, and the nitty gritty of Rust's type system.

Rust Programming
Language, The:
Amazon.co.uk:

Page 26/90

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The Rust

Klabnik...

Rust is a modern
systems

programming
language developed
by the Mozilla
Corporation. It is
intended to be a
language for highly
concurrent and
highly secure
systems. It compiles
to native code;
hence, it is blazingly

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The Rust

fast like C and C++.

This tutorial adopts a simple and practical approach to describe the concepts of Rust programming.

Rust Tutorial -
Tutorialspoint
Microsoft recently created a stir after revealing it was taking some ideas from the popular

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The Rust

Rust programming language to create a new language for 'safe infrastructure programming' under the ...

Microsoft opens up Rust-inspired Project Verona ...

Rust, on the other hand, is a fairly complex language and is far more

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Programming

Language

similar to C++.
Rust 's language goal is to enable fast, efficient, and memory safe systems programming; simplicity has never been touted as one of its design fundamentals.

Neither approach is fundamentally better, but they are quite different

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The Rust

approaches to
building a language.

How Rust Compares
to Other

Programming
Languages – The
New ...

Rust is a systems
programming
language which
focused on safety,
speed, and
concurrency at the

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The Rust

Programming Language

same time. It's a very low level language and it

doesn't use

Garbage Collection

(GC) by default.

One...

The official book on the Rust

programming

language, written by

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The Rust

the Rust programming
development team at
the Mozilla

Foundation, fully
updated for Rust
2018. The Rust
Programming
Language is the
official book on Rust:
an open source
systems
programming
language that helps
you write faster,

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The Rust

Programming
Language
more reliable
software. Rust offers
control over low-level
details (such as
memory usage) in
combination with
high-level
ergonomics,
eliminating the
hassle traditionally
associated with low-
level languages. The
authors of The Rust
Programming

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The Rust

Programming Language, members

of the Rust Core

Team, share their

knowledge and

experience to show

you how to take full

advantage of Rust's

features--from

installation to

creating robust and

scalable programs.

You'll begin with

basics like creating

functions, choosing

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The Rust

Programming Language

data types, and binding variables and then move on to more advanced concepts, such as:

- Ownership and borrowing, lifetimes, and traits
- Using Rust's memory safety guarantees to build fast, safe programs
- Testing, error handling, and effective refactoring

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Programming Language

- Generics, smart pointers, multithreading, trait objects, and advanced pattern matching
- Using Cargo, Rust's built-in package manager, to build, test, and document your code and manage dependencies
- How best to use Rust's advanced compiler

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The Rust

with compiler-led programming techniques You'll find plenty of code examples throughout the book, as well as three chapters dedicated to building complete projects to test your learning: a number guessing game, a Rust implementation of a command line tool,

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The Rust

Programming Language
and a multithreaded server. New to this edition: An extended section on Rust macros, an expanded chapter on modules, and appendixes on Rust development tools and editions.

The official book on the Rust programming language, written by

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The Rust

the Rust programming
development team at
the Mozilla

Foundation, fully
updated for Rust
2018. The Rust
Programming
Language is the
official, definitive
guide to Rust, a
hugely popular, com
munity-supported
programming
language. This is the

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The Rust

second edition of the improved version of the free online Rust book, so well-loved in the Rust community that it is simply referred to as "the Book". Programmers love Rust because it allows them to write powerful code efficiently, without the risk of crashes and errors common

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The Rust

Programming Language
in languages like C and C++. This book will show readers how to use Rust's robust type system to keep programs memory-safe and speedy, and make the most of the Cargo package manager that brings the pieces of a program together. The reader will learn all about

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The Rust

Programming Language
Rust's ownership rules, which lie at the heart of Rust's reliability and crash-resistant compiling.

The Rust

Programming

Language covers

everything from basic concepts like variable bindings, control flow, functions, and error handling, to more advanced

File Type PDF

The Rust

Programming Language
topics, such as crates, generics, concurrency, and the nitty gritty of Rust's type system. With improved organization, hands-on features, and a more tutorial-oriented style, this version offers a vast improvement over the original. The second edition also

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The Rust

Programming Language
Provides an entirely new chapter on macros and an expanded chapter on crates, two key aspects of Rust that make it so popular. Readers will also find extra appendices on Rust development tools and Rust versions.

The Rust

Page 45/90

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The Rust

Programming

Language is the official, definitive guide to Rust, a hugely popular, community-supported programming language. The reader will learn all about Rust's ownership rules, which lie at the heart of Rust's reliability and crash-resistant compiling.

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The Rust

Programming

Language

covers

everything from basic

concepts like variable

bindings, control

flow, functions, and

error handling, to

more advanced

topics, such as crates,

generics,

concurrency, and the

nitty gritty of Rust's

type system.

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The Rust

Programming

Language
Rust is a new systems programming

language that

combines the

performance and low-

level control of C and

C++ with memory

safety and thread

safety. Rust ' s

modern, flexible

types ensure your

program is free of

null pointer

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The Rust

dereferences, double frees, dangling pointers, and similar bugs, all at compile time, without runtime overhead. In multi-threaded code, Rust catches data races at compile time, making concurrency much easier to use.

Written by two experienced systems programmers, this

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The Rust

book explains how

Rust manages to

bridge the gap

between

performance and

safety, and how you

can take advantage

of it. Topics include:

How Rust represents

values in memory

(with diagrams)

Complete

explanations of

ownership, moves,

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The Rust

Programming
Language
borrows, and
lifetimes Cargo,
rustdoc, unit tests,
and how to publish
your code on
crates.io, Rust 's
public package
repository High-level
features like generic
code, closures,
collections, and
iterators that make
Rust productive and
flexible Concurrency

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The Rust

Programming Language
in Rust: threads, mutexes, channels, and atomics, all much safer to use than in C or C++ Unsafe code, and how to preserve the integrity of ordinary code that uses it Extended examples illustrating how pieces of the language fit together

Rust in Action

Page 52/90

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The Rust

introduces the Rust

programming

language by

exploring numerous

systems

programming

concepts and

techniques. You'll be

learning Rust by

delving into how

computers work

under the hood.

You'll find yourself

playing with

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The Rust

Programming
Language
persistent storage,
memory, networking
and even tinkering
with CPU

instructions. The
book takes you
through using Rust to
extend other
applications and
teaches you tricks to
write blindingly fast
code. You'll also
discover parallel and
concurrent

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The Rust

Programming

Language
Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

This is not your typical programming book! Jump right in with interesting, useful programs, some of which are

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The Rust

Drawn from classic computer science problems as a way of talking about the programming constructs in the language rather than explaining everything in a dry, theoretical manner that doesn't translate well to implementation. Rust programming has

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The Rust

been the "most loved programming language" in the Stack Overflow Developer Survey every year since 2016! Learn why programmers are using Rust due to its performance and efficiency, without the errors and crashes that a programmer would find in

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The Rust

Programming
Language
Common languages
such as C and C++.

Built around solving
real problems, this
book will help
introduce you to
computer science
problems that can be
built upon to create
solutions for other
problems. LEARN BY
DOING: This book will
focus on a practical
approach to learning

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The Rust

Rust. You will learn all of the language fundamentals through the use of programming examples that do interesting things! All of the programs covered will be based on a computer science problem or othre interesting problems that can be used as a foundation

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The Rust

Programming Language
for demonstrating
language syntax,
data types and
structures, and other
features or
techniques for
developing
programs.

Discover the world of
Rust programming
through real-world
examples Key
Features Implement

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The Rust

Programming Language
various features of
Rust to build
blazingly fast
applications Learn to
build GUI
applications using
Gtk-rs Explore the
multi-threading
aspect of Rust to
tackle problems in
concurrency and in
distributed
environments Book
Description Rust is an

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The Rust

Programming Language
open source, safe,
concurrent, practical
language created by
Mozilla. It runs
blazingly fast,
prevents segfaults,
and guarantees
safety. This book gets
you started with
essential software
development by
guiding you through
the different aspects
of Rust

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The Rust

Programming Language
Programming. With this approach, you can bridge the gap between learning and implementing immediately.

Beginning with an introduction to Rust, you ' ll learn the basic aspects such as its syntax, data types, functions, generics, control flows, and more. After this,

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The Rust

you 'll jump straight into building your first project, a Tetris game. Next you 'll build a graphical music player and work with fast, reliable networking software using Tokio, the scalable and productive asynchronous IO Rust library. Over the course of this book,

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The Rust

you 'll explore
various features of
Rust Programming
including its SDL
features, event loop,
File I/O, and the
famous GTK+ widget
toolkit. Through
these projects,
you 'll see how well
Rust performs in
terms of concurrency
—including
parallelism,

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The Rust

Reliability, improved performance, generics, macros, and thread safety. We ' ll also cover some asynchronous and reactive programming aspects of Rust. By the end of the book, you ' ll be comfortable building various real-world applications in Rust.

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The Rust

What you will learn

Compile and run the Rust projects using the Cargo-Rust Package manager

Use Rust-SDL features such as the event loop, windows, infinite loops, pattern matching, and more

Create a graphical interface using Gtk-rs and Rust-SDL

Incorporate

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The Rust

Concurrency

mechanism and multi-threading along with

thread safety and

locks Implement the

FTP protocol using an

Asynchronous I/O

stack with the Tokio

library Who this book

is for This book is for

software developers

interested in system

level and application

programming who

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The Rust

Programming
Language
are looking for a
quick entry into using
Rust and

understanding the
core features of the
Rust Programming.
It ' s assumed that
you have a basic
understanding of
Java, C#, Ruby,
Python, or JavaScript.

Design and
implement

Page 69/90

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The Rust

Professional-level
programs by
leveraging modern
data structures and
algorithms in Rust
Key Features Improve
your productivity by
writing more simple
and easy code in Rust
Discover the
functional and
reactive
implementations of
traditional data

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The Rust

Programming Language
structures Delve into
new domains of Rust,
including

WebAssembly,
networking, and
command-line tools

Book Description

Rust is a powerful
language with a rare
combination of
safety, speed, and
zero-cost

abstractions. This
Learning Path is filled

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The Rust

with clear and simple explanations of its features along with real-world examples, demonstrating how you can build robust, scalable, and reliable programs. You ' ll get started with an introduction to Rust data structures, algorithms, and essential language constructs. Next, you

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The Rust

Programming Language
will understand how to store data using linked lists, arrays, stacks, and queues. You ' ll also learn to implement sorting and searching algorithms, such as Brute Force algorithms, Greedy algorithms, Dynamic Programming, and Backtracking. As you progress, you ' ll pick

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The Rust

Programming Language
up on using Rust for
systems

programming,
network

programming, and
the web. You ' ll then
move on to discover
a variety of
techniques, right
from writing memory-
safe code, to building
idiomatic Rust
libraries, and even
advanced macros. By

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The Rust

Programming

Learning Path,

you 'll be able to

implement Rust for

enterprise projects,

writing better tests

and documentation,

designing for

performance, and

creating idiomatic

Rust code. This

Learning Path

includes content

from the following

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The Rust

Programming

Mastering Rust -

Second Edition by

Rahul Sharma and

Vesa Kaihlavirta

Hands-On Data

Structures and

Algorithms with Rust

by Claus Matzinger

What you will learn

Design and

implement complex

data structures in

Rust Create and use

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The Rust

well-tested and
reusable components
with Rust Understand
the basics of
multithreaded
programming and
advanced algorithm
design Explore
application profiling
based on
benchmarking and
testing Study and
apply best practices
and strategies in

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The Rust

error handling Create

efficient web

applications with the

Actix-web framework

Use Diesel for type-

safe database

interactions in your

web application Who

this book is for If you

are already familiar

with an imperative

language and now

want to progress

from being a

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The Rust

beginner to an intermediate-level Rust programmer, this Learning Path is for you. Developers who are already familiar with Rust and want to delve deeper into the essential data structures and algorithms in Rust will also find this Learning Path useful.

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The Rust

Go beyond the basics and build complete applications using the Rust

programming language. The applications in this book include a high-performance web client, a microcontroller (for a robot, for example), a game, an app that runs on Android, and

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The Rust

Programming Language
an application that incorporates AI and machine learning.

Each chapter will be organized in the following format:
what this kind of application looks like;
requirements and user stories of our example program; an introduction to the Rust libraries used;
the actual

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The Rust

Implementation of
the example
program, including
common pitfalls and
their solutions; and a
brief comparison of
libraries for building
each application, if
there is no clear
winner. Practical Rust
Projects will open
your eyes to the
world of practical
applications of Rust.

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The Rust

Programming the
book, you will be able
Language
to apply your Rust
knowledge to build
your own projects.

What You Will Learn

Write Rust code that
runs on

microcontrollers

Build a 2D game

Create Rust-based

mobile Android

applications Use Rust

to build AI and

File Type PDF

The Rust

Machine Learning

Applications Who

This Book Is For

Someone with basic

Rust knowledge,

wishing to learn more

about how to apply

Rust in a real-world

scenario.

Learn to program

with Rust in an easy,

step-by-step manner

on Unix, Linux shell,

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The Rust

macOS and the
Windows command
line. As you read this
book, you ' ll build
on the knowledge
you gained in
previous chapters
and see what Rust
has to offer.

Beginning Rust starts
with the basics of
Rust, including how
to name objects,
control execution

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The Rust

Programming Language
flow, and handle primitive types.

You ' ll see how to do arithmetic, allocate memory, use iterators, and handle input/output. Once you have mastered these core skills, you ' ll work on handling errors and using the object-oriented features of Rust to build robust

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The Rust

Rust applications in no time. Only a basic knowledge of programming is required, preferably in C or C++. To understand this book, it's enough to know what integers and floating-point numbers are, and to distinguish identifiers from string literals. After reading this

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The Rust

book, you'll be ready

to build Rust

applications. What

You'll Learn Get

started programming

with Rust Understand

heterogeneous data

structures and data

sequences Define

functions, generic

functions, structs,

and more Work with

closures, changeable

strings, ranges and

File Type PDF

The Rust

lices Use traits and learn about lifetimes
Who This Book Is For
Those who are new to Rust and who have at least some prior experience with programming in general: some C/C++ is recommended particularly.

Copyright code : d2d

Page 89/90

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The Rust

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