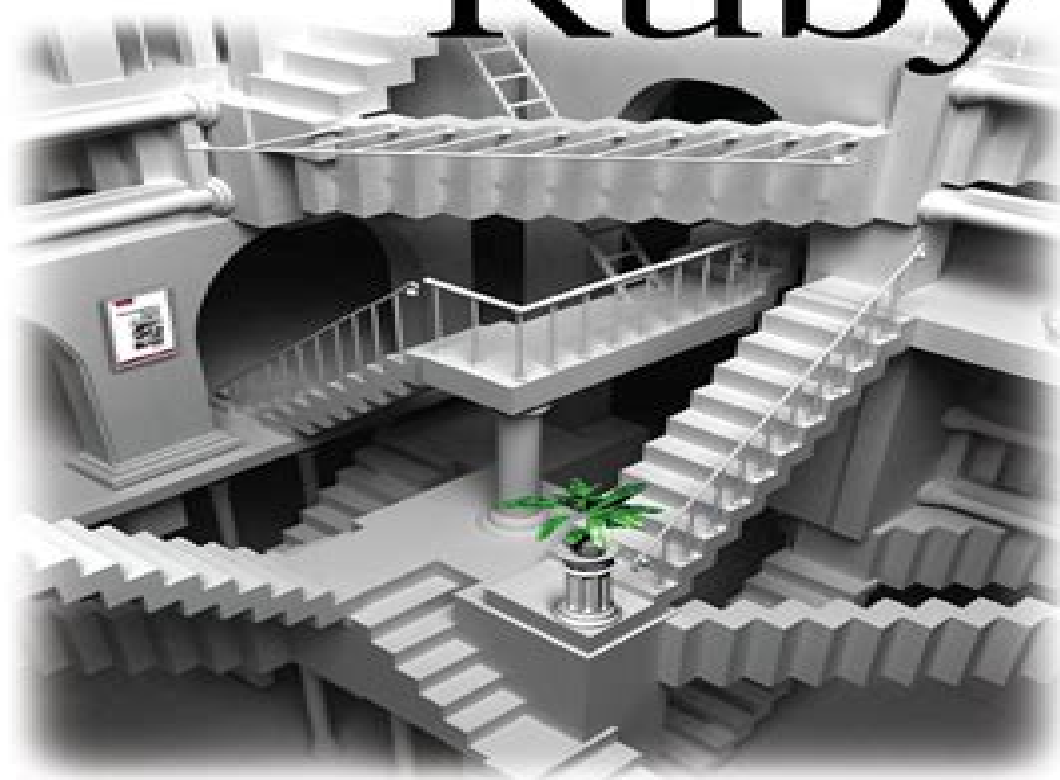


The
Pragmatic
Programmers

Metaprogramming Ruby



Paolo Perrotta

foreword by Yukihiro "matz" Matsumoto

Edited by Jill Steinberg

The Facets



of Ruby Series

Metaprogramming Ruby Program Like The Ruby Pros

David Flanagan, Yukihiro Matsumoto



Metaprogramming Ruby Program Like The Ruby Pros:

Metaprogramming Ruby Paolo Perrotta,2010 Everyone in the Ruby world is talking about metaprogramming and how to use it to remove duplication in code and write elegant beautiful programs With Metaprogramming Ruby readers can get in on the action *Metaprogramming Ruby 2* Paolo Perrotta,2014 The First 20 Hours Josh Kaufman,2014-05-27 What if it s possible to learn the basics of any new skill in 20 hours or less Research suggests it takes 10 000 hours to master a new skill and the earliest hours are always the most frustrating That s why it s so difficult to learn a new language play an instrument hit a golf ball or shoot great photos Josh Kaufman offers a better way His systematic approach to rapid skill acquisition shows you how to deconstruct complex skills maximize productive practice and remove common learning barriers By completing just 20 hours of focused deliberate practice you can pick up the basics in record time and have more fun along the way

Agile Web Development with Rails 7 Sam Ruby,Dave Thomas,2023-05-03 Rails 7 completely redefines what it means to produce fantastic user experiences and provides a way to achieve all the benefits of single page applications at a fraction of the complexity Rails 7 integrates the Hotwire frameworks of Stimulus and Turbo directly as the new defaults together with that hot newness of import maps The result is a toolkit so powerful that it allows a single individual to create modern applications upon which they can build a competitive business The way it used to be Ruby on Rails helps you produce high quality beautiful looking web applications quickly you concentrate on creating the application and Rails takes care of the details Rails 7 brings many improvements and this edition is updated to cover the new features and changes in best practices We start with a step by step walkthrough of building a real application and in depth chapters look at the built in Rails features Follow along with an extended tutorial as you write a web based store application Eliminate tedious configuration and housekeeping seamlessly incorporate JavaScript send and receive emails manage background jobs with ActiveJob and build real time features using WebSockets and ActionCable Test your applications as you write them using the built in unit integration and system testing frameworks internationalize your applications and deploy your applications easily and securely Rails 1 0 was released in December 2005 This book was there from the start and didn t just evolve alongside Rails it evolved with Rails It has been developed in consultation with the Rails core team In fact Rails itself is tested against the code in this book What You Need All you need is a Windows Mac OS X or Linux machine to do development on This book will take you through the steps to install Rails and its dependencies If you aren t familiar with the Ruby programming language this book contains a chapter that covers the basics necessary to understand the material in the book *DSLs in Action* Debasish Ghosh,2010-11-30 Your success and sanity are closer at hand when you work at a higher level of abstraction allowing your attention to be on the business problem rather than the details of the programming platform Domain Specific Languages little languages implemented on top of conventional programming languages give you a way to do this because they model the domain of your business problem DSLs in Action introduces the concepts and definitions a developer needs to build high

quality domain specific languages It provides a solid foundation to the usage as well as implementation aspects of a DSL focusing on the necessity of applications speaking the language of the domain After reading this book a programmer will be able to design APIs that make better domain models For experienced developers the book addresses the intricacies of domain language design without the pain of writing parsers by hand The book discusses DSL usage and implementations in the real world based on a suite of JVM languages like Java Ruby Scala and Groovy It contains code snippets that implement real world DSL designs and discusses the pros and cons of each implementation Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside Tested real world examples How to find the right level of abstraction Using language features to build internal DSLs Designing parser combinator based little languages *Rails 5 Test Prescriptions* Noel Rappin,2018-02-16 Does your Rails code suffer from bloat brittleness or inaccuracy Cure these problems with the regular application of test driven development You ll use Rails 5 1 Minitest 5 and RSpec 3 6 as well as popular testing libraries such as factory_girl and Cucumber Updates include Rails 5 1 system tests and Webpack integration Do what the doctor ordered to make your applications feel all better Side effects may include better code fewer bugs and happier developers Your Ruby on Rails application is sick Deadlines are looming but every time you make the slightest change to the code something else breaks Nobody remembers what that tricky piece of code was supposed to do and nobody can tell what it actually does Plus it has bugs You need test driven development a process for improving the design maintainability and long term viability of software With both practical code examples and discussion of why testing works this book starts with the most basic features delivered as part of core Ruby on Rails Once you ve integrated those features into your coding practice work with popular third party testing tools such as RSpec Jasmine Cucumber and factory_girl Test the component parts of a Rails application including the back end model logic and the front end display logic With Rails examples use testing to enable your code to respond better to future change Plus see how to handle real world testing situations This new edition has been updated to Rails 5 1 and RSpec 3 6 and contains full coverage of new Rails features including system tests and the Webpack based JavaScript setup What You Need Ruby 2 4 Rails 5 1

The Official Raspberry Pi Projects Book Volume 1 The Makers of The MagPi magazine,2015-11-01 The Official Raspberry Pi projects book returns with inspirational projects detailed step by step guides and product reviews based around the phenomenon that is the Raspberry Pi See why educators and makers adore the credit card sized computer that can be used to make robots retro games consoles and even art In this volume of The Official Raspberry Pi Projects Book you ll Get involved with the amazing and very active Raspberry Pi community Be inspired by incredible projects made by other people Learn how to make with your Raspberry Pi with our tutorials Find out about the top kits and accessories for your Pi projects And much much more If this is your first time using a Raspberry Pi you ll also find some very helpful guides to get you started with your Raspberry Pi journey With millions of Raspberry Pi boards out in the wild that s millions more people getting into

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straightforward and intuitive nature that avoids programming repetition and makes it infinitely easier to build for the web. This book captures the current best practices to show you the most efficient way to build a spectacular web application with RoR. You'll learn everything you need to know in order to extend Rails so that you can take advantage of the many exciting and wonderful things that are being done by the diligent RoR programming community.

Ruby on Rails for Microsoft Developers Antonio Cangiano, 2009-04-27. This definitive guide examines how to take advantage of the new Agile methodologies offered when using Ruby on Rails. RoR. You'll quickly grasp the RoR methodology by focusing on the RoR development from the point of view of the beginner to intermediate level Microsoft developer. Plus you'll get a reliable roadmap for migrating your applications, skill set, and development processes to the newer, more agile programming platform that RoR offers.

The Ruby Programming Language David Flanagan, Yukihiro Matsumoto, 2008-01-25. A guide to Ruby programming covers such topics as datatypes and objects, expressions, classes, and modules, control structures, and the Ruby platform.

Polished Ruby Programming Jeremy Evans, 2021-07-16. Elevate your Ruby skills to an advanced level by deepening your understanding of the design principles, best practices, and trade-offs involved in implementation approaches to future-proof your Ruby applications. Key Features: Learn Ruby web application design principles and strategies for databases, security, and testing from a Ruby committer. Understand the design principles behind polished Ruby code and trade-offs between implementation approaches. Use metaprogramming and DSLs to reduce the amount of code needed without decreasing maintainability. Book Description: Anyone striving to become an expert Ruby programmer needs to be able to write maintainable applications. Polished Ruby Programming will help you get better at designing scalable and robust Ruby programs so that no matter how big the codebase grows, maintaining it will be a breeze. This book takes you on a journey through implementation approaches for many common programming situations, the trade-offs inherent in each approach, and why you may choose to use different approaches in different situations. You'll start by refreshing Ruby fundamentals such as correctly using core classes, class and method design, variable usage, error handling, and code formatting. Then you'll move on to higher-level programming principles such as library design, use of metaprogramming, and domain-specific languages and refactoring. Finally, you'll learn principles specific to web application development, such as how to choose a database and web framework and how to use advanced security features. By the end of this Ruby programming book, you'll be a well-rounded web developer with a deep understanding of Ruby. While most code examples and principles discussed in the book apply to all Ruby versions, some examples and principles are specific to Ruby 3.0, the latest release at the time of publication. What you will learn: Use Ruby's core classes and design custom classes effectively. Explore the principles behind variable usage and method argument choice. Implement advanced error handling approaches such as exponential backoff. Design extensible libraries and plugin systems in Ruby. Use metaprogramming and DSLs to avoid code redundancy. Implement different approaches to testing and understand their trade-offs. Discover design patterns, refactoring, and optimization with Ruby.

Explore database design principles and advanced web app security Who this book is for This book is for Ruby programmers who are comfortable in coding with Ruby but want to advance their skills by mastering the deeper principles and best practices behind writing maintainable scalable optimized and well structured Ruby code This book won t teach you the basics of Ruby you ll need intermediate knowledge and practical experience before you can dive in *Метапрограммирование* Ярослав Суков,2025-03-02 Python JavaScript C Ruby Haskell Julia *Pro DLR in .NET 4* Chaur Wu,2011-07-29 Microsoft s Dynamic Language Runtime DLR is a platform for running dynamic languages such as Ruby and Python on an equal footing with compiled languages such as C Furthermore the runtime is the foundation for many useful software design and architecture techniques you can apply as you develop your NET applications Pro DLR in NET 4 introduces you to the DLR showing how you can use it to write software that combines dynamic and static languages letting you choose the right tool for the job You will learn the core DLR components such as LINQ expressions call sites binders and dynamic objects and how they work together to achieve language interoperability You ll see how to mix and match objects and functions from compiled and dynamic languages so you can write code in the language of your choice while taking advantage of libraries written in other languages And you ll discover how the various languages interoperate behind the scenes With the basics out of the way the book then details the various ways you can leverage the DLR in the design and architecture of your software applications You ll learn about runtime code generation which lets you avoid much of the boilerplate code typical in layered business applications You ll see practical examples of using the DLR to build domain specific languages and you ll learn how the DLR helps enable aspect oriented programming *Programming Language Explorations* Ray Toal,Sage Strieker,Marco Berardini,2024-08-06 Programming Language Explorations helps its readers gain proficiency in programming language practice and theory by presenting both example focused chapter length explorations of fourteen important programming languages and detailed discussions of the major concepts transcending multiple languages A language by language approach is sandwiched between an introductory chapter that motivates and lays out the major concepts of the field and a final chapter that brings together all that was learned in the middle chapters into a coherent and organized view of the field Each of the featured languages in the middle chapters is introduced with a common trio of example programs and followed by a tour of its basic language features and coverage of interesting aspects from its type system functional forms scoping rules concurrency patterns and metaprogramming facilities These chapters are followed by a brief tour of over 40 additional languages designed to enhance the reader s appreciation of the breadth of the programming language landscape and to motivate further study Targeted to both professionals and advanced college undergraduates looking to expand the range of languages and programming patterns they can apply in their work and studies the book pays attention to modern programming practices keeps a focus on cutting edge programming patterns and provides many runnable examples all of which are available in the book s companion GitHub repository The combination of conceptual overviews with exploratory

example focused coverage of individual programming languages provides its readers with the foundation for more effectively authoring programs prompting AI programming assistants and perhaps most importantly learning and creating new languages

Pro Spring Security Carlo Scarioni, 2013-06-17 Security is a key element in the development of any non trivial application The Spring Security Framework provides a comprehensive set of functionalities to implement industry standard authentication and authorization mechanisms for Java applications Pro Spring Security will be a reference and advanced tutorial that will do the following Guides you through the implementation of the security features for a Java web application by presenting consistent examples built from the ground up Demonstrates the different authentication and authorization methods to secure enterprise level applications by using the Spring Security Framework Provides you with a broader look into Spring security by including up to date use cases such as building a security layer for RESTful web services and Grails applications

Pro Active Record Chad Pytel, Jonathan Yurek, Kevin Marshall, 2007-11-15 Pro Active Record helps you take advantage of the full power of your database engine from within your Ruby programs and Rails applications ActiveRecord part of the magic that makes the Rails framework so powerful and easy to use is the model element of the Rails Model View Controller framework It s an object relational mapping library enabling you to interact with databases from both Ruby and Rails applications Because ActiveRecord is configured with default assumptions that mesh perfectly with the Rails framework Rails developers often find they hardly need think about it at all However if you are developing in Ruby without Rails or are deploying against legacy databases designed without Rails in mind or you just want to take advantage of database specific features such as large objects and stored procedures you need the in depth knowledge of ActiveRecord found in this book In Pro Active Record authors Kevin Marshall Chad Pytel and Jon Yurek walk you through every step from the basics of getting and installing the ActiveRecord library to working with legacy schema to using features specific to each of todays most popular database engines including Oracle MS SQL MySQL and more You ll come to a deep understanding of ActiveRecord that will enable you to truly exploit all that Ruby Rails and your chosen database platform have to offer

Learning Ruby Michael Fitzgerald, 2007-05-14 You don t have to know everything about a car to drive one and you don t need to know everything about Ruby to start programming with it Written for both experienced and new programmers alike Learning Ruby is a just get in and drive book a hands on tutorial that offers lots of Ruby programs and lets you know how and why they work just enough to get you rolling down the road Interest in Ruby stems from the popularity of Rails the web development framework that s attracting new devotees and refugees from Java and PHP But there are plenty of other uses for this versatile language The best way to learn is to just try the code You ll find examples on nearly every page of this book that you can imitate and hack Briefly this book Outlines many of the most important features of Ruby Demonstrates how to use conditionals and how to manipulate strings in Ruby Includes a section on regular expressions Describes how to use operators basic math functions from the Math module rational numbers etc Talks you through Ruby arrays and demonstrates hashes in

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Ruby Under a Microscope Pat Shaughnessy, 2013-11-13 Ruby is a powerful programming language with a focus on simplicity but beneath its elegant syntax it performs countless unseen tasks Ruby Under a Microscope gives you a hands on look at Ruby's core using extensive diagrams and thorough explanations to show you how Ruby is implemented no C skills required Author Pat Shaughnessy takes a scientific approach laying out a series of experiments with Ruby code to take you behind the scenes of how programming languages work You'll even find information on JRuby and Rubinius two alternative implementations of Ruby as well as in depth explorations of Ruby's garbage collection algorithm Ruby Under a Microscope will teach you How a few computer science concepts underpin Ruby's complex implementation How Ruby executes your code using a virtual machine How classes and modules are the same inside Ruby How Ruby employs algorithms originally developed for Lisp How Ruby uses grammar rules to parse and understand your code How your Ruby code is translated into a different language by a compiler No programming language needs to be a black box Whether you're already intrigued by language implementation or just want to dig deeper into Ruby you'll find Ruby Under a Microscope a fascinating way to become a better programmer Covers Ruby 2 x 1 9 and 1 8

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