

The Rails Way Obie Fernandez

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The Pragmatic Programmer David Thomas 2019-07-30 "One of the most significant books in my life." –Obie Fernandez, Author, *The Rails Way* "Twenty years ago, the first edition of *The Pragmatic Programmer* completely changed the trajectory of my career. This new edition could do the same for yours." –Mike Cohn, Author of *Succeeding with Agile*, *Agile Estimating and Planning*, and *User Stories Applied* ". . . filled with practical advice, both technical and professional, that will serve you and your projects well for years to come." –Andrea Goulet, CEO, Corgibytes, Founder, LegacyCode.Rocks ". . . lightning does strike twice, and this book is proof." –VM (Vicky) Brasseur, Director of Open Source Strategy, Juniper Networks *The Pragmatic Programmer* is one of those rare tech books you'll read, re-read, and read again over the years. Whether you're new to the field or an experienced practitioner, you'll come away with fresh insights each and every time. Dave Thomas and Andy Hunt wrote the first edition of this influential book in 1999 to help their clients create better software and rediscover the joy of coding. These lessons have helped a generation of programmers examine the very essence of software development, independent of any particular language, framework, or methodology, and the Pragmatic philosophy has spawned hundreds of books, screencasts, and audio books, as well as thousands of careers and success stories. Now, twenty years later, this new edition re-examines what it means to be a modern programmer. Topics range from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll learn how to: Fight software rot Learn continuously Avoid the trap of duplicating knowledge Write flexible, dynamic, and adaptable code Harness the power of basic tools Avoid programming by coincidence Learn real requirements Solve the underlying problems of concurrent code Guard against security vulnerabilities Build teams of Pragmatic Programmers Take responsibility for your work and career Test ruthlessly and effectively, including property-based testing Implement the Pragmatic Starter Kit Delight your users Written as a series of self-contained sections and filled with classic and fresh anecdotes, thoughtful examples, and interesting analogies, *The Pragmatic Programmer* illustrates the best approaches and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that form the foundation for long-term success in your career. You'll become a Pragmatic Programmer. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Enterprise Rails Dan Chak 2008-10-21 What does it take to develop an enterprise application with Rails? *Enterprise Rails* introduces several time-tested software engineering principles to prepare you for the challenge of building a high-performance, scalable website with global reach. You'll learn how to design a solid architecture that ties the many parts of an enterprise website together, including the database, your servers and clients, and other services as well. Many Rails developers think that planning for scale is unnecessary. But there's nothing worse than an application that fails because it can't handle sudden success. Throughout this book, you'll work on an example enterprise project to learn first-hand what's involved in architecting serious web applications. With this book, you will: Tour an ideal enterprise systems layout: how Rails fits in, and which elements don't rely on Rails Learn to structure a Rails 2.0 application for complex websites Discover how plugins can support reusable code and improve application clarity Build a solid data model -- a fortress -- that protects your data from corruption Base an ActiveRecord model on a database view, and build support for multiple table inheritance Explore service-oriented architecture and web services with XML-RPC and REST See how caching can be a dependable way to improve performance Building for scale requires more work up front, but you'll have a flexible website that can be extended easily when your needs change. *Enterprise Rails* teaches you how to architect scalable Rails applications from the ground up. "Enterprise Rails is indispensable for anyone planning to build enterprise web services. It's one thing to get your service off the ground with a framework like Rails, but quite another to construct a system that will hold up at enterprise scale. The secret is to make good architectural choices from the beginning. Chak shows you how to make those choices. Ignore his advice at your peril."-- Hal Abelson, Prof. of Computer Science and Engineering, MIT

The Rails Way Obie Fernandez 2007-11-16 The expert guide to building Ruby on Rails applications *Ruby on Rails* strips complexity from the development process, enabling professional developers to focus on what matters most: delivering business value. Now, for the first time, there's a comprehensive, authoritative guide to building production-quality software with Rails. Pioneering Rails developer Obie Fernandez and a team of experts illuminate the entire Rails API, along with the

Ruby idioms, design approaches, libraries, and plug-ins that make Rails so valuable. Drawing on their unsurpassed experience, they address the real challenges development teams face, showing how to use Rails' tools and best practices to maximize productivity and build polished applications users will enjoy. Using detailed code examples, Obie systematically covers Rails' key capabilities and subsystems. He presents advanced programming techniques, introduces open source libraries that facilitate easy Rails adoption, and offers important insights into testing and production deployment. Dive deep into the Rails codebase together, discovering why Rails behaves as it does—and how to make it behave the way you want it to. This book will help you Increase your productivity as a web developer Realize the overall joy of programming with Ruby on Rails Learn what's new in Rails 2.0 Drive design and protect long-term maintainability with TestUnit and RSpec Understand and manage complex program flow in Rails controllers Leverage Rails' support for designing REST-compliant APIs Master sophisticated Rails routing concepts and techniques Examine and troubleshoot Rails routing Make the most of ActiveRecord object-relational mapping Utilize Ajax within your Rails applications Incorporate logins and authentication into your application Extend Rails with the best third-party plug-ins and write your own Integrate email services into your applications with ActionMailer Choose the right Rails production configurations Streamline deployment with Capistrano

The Rails 5 Way Obie Fernandez 2017-11-22 The "Bible" for Rails Development: Fully Updated for Rails 5 "When I read *The Rails Way* for the first time, I felt like I truly understood Rails for the first time." —Steve Klabnik, Rails contributor and mentor *The Rails™ 5 Way* is the comprehensive, authoritative reference guide for professionals delivering production-quality code using modern Ruby on Rails. Obie Fernandez illuminates the entire Rails 5 API, its most powerful idioms, design approaches, and libraries. He presents new and updated content on Action Cable, RSpec 3.4, Turbolinks 5.0, the Attributes API, and many other enhancements, both major and subtle. Through detailed code examples, you'll dive deep into Ruby on Rails, discover why it's designed as it is, and learn to make it do exactly what you want. Proven in thousands of production systems, the knowledge in this book will maximize your productivity and help you build more successful solutions. Build powerful, scalable, REST-compliant back-end services Program complex program flows using Action Controller Represent models, relationships, and operations in Active Record, and apply advanced Active Record techniques Smoothly evolve database schema via Migrations Craft front-ends with ActionView and the Asset Pipeline Optimize performance and scalability with caching and Turbolinks 5.0 Improve your productivity using Haml HTML templating Secure your systems against attacks like SQL Injection, XSS, and XSRF Integrate email using Action Mailer Enable real-time, websockets-based browser behavior with Action Cable Improve responsiveness with background processing Build "API-only" back-end projects that speak JSON Leverage enhancements to Active Job, serialization, and Ajax support

The Ruby Way Hal Fulton 2015-02-11 For more than a decade, Ruby developers have turned to *The Ruby Way* for reliable "how-to" guidance on effective Ruby programming. Now, Hal Fulton and André Arko have thoroughly updated this classic guide to cover new language enhancements and developers' experiences through Ruby 2.1. The new edition illuminates Ruby 2.1 through 400+ examples, each answering the question: "How do I do this in Ruby?" For each example, they present both a task description and realistic technical constraints. Next, they walk step-by-step through presenting one good solution, offering detailed explanations to promote deeper understanding. Conveniently organized by topic, *The Ruby Way, Third Edition* makes it easier than ever to find the specific solution you want—and to write better code by reflecting Ruby's unique philosophy and spirit. Coverage includes Ruby 2.1 overview: terminology, philosophy, and basic principles Best practices for strings and regular expressions Efficiently internationalizing your code Performing calculations (including trigonometry, calculus, statistics, and time/date calculations) Working with "Rubyesque" objects such as symbols and ranges Using arrays, hashes, stacks, queues, trees, graphs, and other data structures Efficiently storing data with YAML, JSON, and SQLite3 Leveraging object-oriented and dynamic features, from multiple constructors to program inspection Building GUIs with Shoes 4, Ruby/Tk, Ruby/GTK3, QtRuby, and other toolkits Improving thread performance by understanding Ruby's synchronization methods and avoiding its pitfalls Automating system administration with Ruby Data formats: JSON, XML, RSS, Atom, RMagick, PDF, and more Testing and debugging with RSpec, Minitest, Cucumber, byebug, and pry Measuring Ruby program performance Packaging and distributing code, and managing dependencies with Bundler Network programming: clients, time servers, POP, SMTP, IMAP, Open-URI Web applications: HTTP servers, Rails, Sinatra, HTML generation, and more Writing distributed Ruby software with drb Choosing modern development tools that maximize your productivity All source code for this book may be downloaded at www.rubyhacker.com. informit.com/aw informit.com/ruby rubyhacker.com therubyway.com

The Rails 3 Way Obed (Obie) Fernandez 2010-12-10 *The Rails™ 3 Way* is a comprehensive resource that digs into the new features in Rails 3 and perhaps more importantly, the rationale behind them. —Yehuda Katz, Rails Core *The Bible for Ruby on Rails Application Development* Ruby on Rails strips complexity from the development process, enabling professional developers to focus on what matters most: delivering business value via clean and maintainable code. *The Rails™ 3 Way* is the only comprehensive, authoritative guide to delivering production-quality code with Rails 3. Pioneering Rails expert Obie Fernandez and a team of leading experts illuminate the entire Rails 3 API, along with the idioms, design approaches, and libraries that make developing applications with Rails so powerful. Drawing on their unsurpassed experience and track record, they address the real challenges development teams face, showing how to use Rails 3 to maximize your productivity. Using numerous detailed code examples, the author systematically covers Rails 3 key capabilities and subsystems, making this book a reference that you will turn to again and again. He presents advanced Rails programming techniques that have been proven effective in day-to-day usage on dozens of production Rails systems and offers important insights into behavior-driven development and production considerations such as scalability. Dive deep into the Rails 3 codebase and discover why Rails is designed the way it is—and how to make it do what you want it to do. This book will help you Learn what's new in Rails 3

Increase your productivity as a web application developer Realize the overall joy in programming with Rails Leverage Rails' powerful capabilities for building REST-compliant APIs Drive implementation and protect long-term maintainability using RSpec Design and manipulate your domain layer using Active Record Understand and program complex program flows using Action Controller Master sophisticated URL routing concepts Use Ajax techniques via Rails 3 support for unobtrusive JavaScript Learn to extend Rails with popular gems and plugins, and how to write your own Extend Rails with the best third-party plug-ins and write your own Integrate email services into your applications with Action Mailer Improve application responsiveness with background processing Create your own non-Active Record domain classes using Active Model Master Rails' utility classes and extensions in Active Support

Forging Python Miki Tebeka 2018-04-08 Best practices and life lessons developing Python.

The RSpec Book David Chelimsky 2010 Behaviour Driven Development is about writing software that matters. It is an approach to agile software development that takes cues from Test Driven Development, Domain Driven Design, and Acceptance Test Driven Planning. RSpec and Cucumber are the leading Behaviour Driven Development tools in Ruby. RSpec supports Test Driven Development in Ruby through the BDD lens, keeping your focus on design and documentation while also supporting thorough testing and quick fault isolation. Cucumber, RSpec's steadfast companion, supports Acceptance Test Driven Planning with business-facing, executable requirements documentation that helps to ensure that you are writing relevant software targeted at real business needs. The RSpec Book will introduce you to RSpec, Cucumber, and a number of other tools that make up the Ruby BDD family. Replete with tutorials and practical examples, the RSpec Book will help you get your BDD on, taking you from executable requirements to working software that is clean, well tested, well documented, flexible and highly maintainable.

Refactoring Jay Fields 2009-10 The Definitive Refactoring Guide, Fully Revamped for Ruby With refactoring, programmers can transform even the most chaotic software into well-designed systems that are far easier to evolve and maintain. What's more, they can do it one step at a time, through a series of simple, proven steps. Now, there's an authoritative and extensively updated version of Martin Fowler's classic refactoring book that utilizes Ruby examples and idioms throughout-not code adapted from Java or any other environment. The authors introduce a detailed catalog of more than 70 proven Ruby refactorings, with specific guidance on when to apply each of them, step-by-step instructions for using them, and example code illustrating how they work. Many of the authors' refactorings use powerful Ruby-specific features, and all code samples are available for download. Leveraging Fowler's original concepts, the authors show how to perform refactoring in a controlled, efficient, incremental manner, so you methodically improve your code's structure without introducing new bugs. Whatever your role in writing or maintaining Ruby code, this book will be an indispensable resource. This book will help you * Understand the core principles of refactoring and the reasons for doing it * Recognize "bad smells" in your Ruby code * Rework bad designs into well-designed code, one step at a time * Build tests to make sure your refactorings work properly * Understand the challenges of refactoring and how they can be overcome * Compose methods to package code properly * Move features between objects to place responsibilities where they fit best * Organize data to make it easier to work with * Simplify conditional expressions and make more effective use of polymorphism * Create interfaces that are easier to understand and use * Generalize more effectively * Perform larger refactorings that transform entire software systems and may take months or years * Successfully refactor Ruby on Rails code

Eloquent Ruby Russ Olsen 2011-02-07 It's easy to write correct Ruby code, but to gain the fluency needed to write great Ruby code, you must go beyond syntax and absorb the "Ruby way" of thinking and problem solving. In *Eloquent Ruby*, Russ Olsen helps you write Ruby like true Rubyists do—so you can leverage its immense, surprising power. Olsen draws on years of experience internalizing the Ruby culture and teaching Ruby to other programmers. He guides you to the "Ah Ha!" moments when it suddenly becomes clear why Ruby works the way it does, and how you can take advantage of this language's elegance and expressiveness. *Eloquent Ruby* starts small, answering tactical questions focused on a single statement, method, test, or bug. You'll learn how to write code that actually looks like Ruby (not Java or C#); why Ruby has so many control structures; how to use strings, expressions, and symbols; and what dynamic typing is really good for. Next, the book addresses bigger questions related to building methods and classes. You'll discover why Ruby classes contain so many tiny methods, when to use operator overloading, and when to avoid it. Olsen explains how to write Ruby code that writes its own code—and why you'll want to. He concludes with powerful project-level features and techniques ranging from gems to Domain Specific Languages. A part of the renowned Addison-Wesley Professional Ruby Series, *Eloquent Ruby* will help you "put on your Ruby-colored glasses" and get results that make you a true believer.

The Rails 5 Way, Fourth Edition Obie Fernandez 2017 The 'Bible' for Rails Development: Fully Updated for Rails 5 "When I read *The Rails Way* for the first time, I felt like I truly understood Rails for the first time."--Steve Klabnik, Rails contributor and mentor *The Rails 5 Way* is the comprehensive, authoritative reference guide for professionals delivering production-quality code using modern Ruby on Rails. Obie Fernandez illuminates the entire Rails 5 API, its most powerful idioms, design approaches, and libraries. He presents new and updated content on Action Cable, RSpec 3.4, Turbolinks 5.0, the Attributes API, and many other enhancements, both major and subtle. Through detailed code examples, you'll dive deep into Ruby on Rails, discover why it's designed as it is, and learn to make it do exactly what you want. Proven in thousands of production systems, the knowledge in this book will maximize your productivity and help you build more successful solutions. Build powerful, scalable, REST-compliant back-end services Program complex program flows using Action Controller Represent models, relationships, and operations in Active Record, and apply advanced Active Record techniques Smoothly evolve database schema via Migrations Craft front-ends with ActionView and the Asset Pipeline Optimize performance and scalability with caching and Turbolinks 5.0 Improve your productivity using Haml HTML templating Secure your systems against attacks

like SQL Injection, XSS, and XSRF Integrate email using Action Mailer Enable real-time, websockets-based browser behavior with Action Cable Improve responsiveness with background processing Build 'API-only' back-end projects that speak JSON Leverage enhancements to Active Job, serialization, and Ajax support Register your product at informit.com/register for convenient access to downloads, updates, and/or corrections as they become available.

Learn Ruby the Hard Way Zed A. Shaw 2014-12-01 You Will Learn Ruby! Zed Shaw has perfected the world's best system for learning Ruby. Follow it and you will succeed—just like the hundreds of thousands of beginners Zed has taught to date! You bring the discipline, commitment, and persistence; the author supplies everything else. In *Learn Ruby the Hard Way*, Third Edition, you'll learn Ruby by working through 52 brilliantly crafted exercises. Read them. Type their code precisely. (No copying and pasting!) Fix your mistakes. Watch the programs run. As you do, you'll learn how software works; what good programs look like; how to read, write, and think about code; and how to find and fix your mistakes using tricks professional programmers use. Most importantly, you'll learn the following, which you need to start writing excellent Ruby software of your own: • Installing your Ruby environment • Organizing and writing code • Ruby symbols and keywords • Basic mathematics • Variables and printing • Strings and text • Interacting with users • Working with files • Using and creating functions • Looping and logic • Arrays and elements • Hashmaps • Program design • Object-oriented programming • Inheritance and composition • Modules, classes, and objects • Project “skeleton” directories • Debugging and automated testing • Advanced user input • Text processing • Basic game development • Basic web development It'll Be Hard At First. But Soon, You'll Just Get It—And That Will Feel Great! This tutorial will reward you for every minute you put into it. Soon, you'll know one of the world's most powerful, popular programming languages. You'll be a Ruby programmer. Watch Zed, too! The accompanying DVD contains 5+ hours of passionate, powerful teaching: a complete Ruby video course! Zed Shaw is an avid guitar player, programmer, and writer whose books teach people all over the world how to write software. His book *Learn Python the Hard Way* has been read by millions of people around the world. His software has been used by many large and small companies. His essays are often quoted and read by members of many geek communities. He is an entertaining and lively writer, who is sure to keep you laughing and make you think.

Learn Ruby on Rails for Web Development John Elder 2015-01-19 Learning Ruby on Rails has never been this fast and easy, or fun! Veteran Codemy.com programmer John Elder walks you step by step through the ins and outs of Rails for Web Development. Written for the absolute beginner, you don't need any programming experience to dive in and get started with this book. Follow along as John builds a Pinterest-style website from start to finish that allows people to sign up, log in and out, edit their profile, upload images to the database and style those images on the screen. By the end, you'll be well on your way to becoming a professional Ruby on Rails coder!

Practical Object-Oriented Design Sandi Metz 2018-07-10 The Complete Guide to Writing Maintainable, Manageable, Pleasing, and Powerful Object-Oriented Applications Object-oriented programming languages exist to help you create beautiful, straightforward applications that are easy to change and simple to extend. Unfortunately, the world is awash with object-oriented (OO) applications that are difficult to understand and expensive to change. *Practical Object-Oriented Design*, Second Edition, immerses you in an OO mindset and teaches you powerful, real-world, object-oriented design techniques with simple and practical examples. Sandi Metz demonstrates how to build new applications that can “survive success” and repair existing applications that have become impossible to change. Each technique is illustrated with extended examples in the easy-to-understand Ruby programming language, all downloadable from the companion website, poodr.com. Fully updated for Ruby 2.5, this guide shows how to Decide what belongs in a single class Avoid entangling objects that should be kept separate Define flexible interfaces among objects Reduce programming overhead costs with duck typing Successfully apply inheritance Build objects via composition Whatever your previous object-oriented experience, this concise guide will help you achieve the superior outcomes you're looking for. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Exercises in Programming Style Cristina Videira Lopes 2020-08-30 Using a simple computational task (term frequency) to illustrate different programming styles, *Exercises in Programming Style* helps readers understand the various ways of writing programs and designing systems. It is designed to be used in conjunction with code provided on an online repository. The book complements and explains the raw code in a way that is accessible to anyone who regularly practices the art of programming. The first edition was honored as an ACM Notable Book and praised as “The best programming book of the decade.” This new edition will retain the same presentation, but the entire book will be upgraded to Python 3, and a new section will be added on neural network styles. The book contains 33 different styles for writing the term frequency task. The styles are grouped into nine categories: historical, basic, function composition, objects and object interactions, reflection and metaprogramming, adversity, data-centric, concurrency, and interactivity. The author verbalizes the constraints in each style and explains the example programs. Each chapter first presents the constraints of the style, next shows an example program, and then gives a detailed explanation of the code. Most chapters also have sections focusing on the use of the style in systems design as well as sections describing the historical context in which the programming style emerged.

The Rails Way Obie Fernandez 2008 Provides information on the capabilities and subsystems of Rails for the design and development of production-quality software.

Professional Ruby Collection James Adam 2007 GET STRAIGHT TO THE LEADING EDGE WITH RUBY AND RAILS Information that's so hot, new, and valuable, you can't wait for a book. This package brings together 8 breakthrough primers on today's most valuable Ruby and Rails technologies -- including five new digital Short Cuts worth \$69.95! From RailsSpace to ActiveRecord to Mongrel, here's new content, techniques, and code from the Ruby community's top innovators: insiders' information that's never been available before in one place. On the CD-ROM: 5 brand-new digital

Short Cuts... Mongrel: Serving, Deploying, and Extending Your Ruby Applications, by Matt Pelletier and Zed Shaw Rails Plugins: Extending Rails Beyond the Core, by James Adam Rails Routing, by David A. Black Rails Refactoring to Resources: Using CRUD and REST in Your Rails Application, by Trotter Cashion Rubyisms in Rails, by Jacob Harris PLUS, PRINTED BONUS CONTENT INCLUDES Working with Active Record (from the forthcoming Addison-Wesley book The Rails Way by Obie Fernandez) RESTful Blogs (from RailsSpace by Michael Hartl and Aurelius Prochazka) OOP and Dynamic Features in Ruby (from The Ruby Way, Second Edition, by Hal Fulton)

Practical Object-Oriented Design in Ruby Sandi Metz 2012-09-05 The Complete Guide to Writing More Maintainable, Manageable, Pleasing, and Powerful Ruby Applications Ruby's widely admired ease of use has a downside: Too many Ruby and Rails applications have been created without concern for their long-term maintenance or evolution. The Web is awash in Ruby code that is now virtually impossible to change or extend. This text helps you solve that problem by using powerful real-world object-oriented design techniques, which it thoroughly explains using simple and practical Ruby examples. Sandi Metz has distilled a lifetime of conversations and presentations about object-oriented design into a set of Ruby-focused practices for crafting manageable, extensible, and pleasing code. She shows you how to build new applications that can survive success and repair existing applications that have become impossible to change. Each technique is illustrated with extended examples, all downloadable from the companion Web site, poodr.info. The first title to focus squarely on object-oriented Ruby application design, *Practical Object-Oriented Design in Ruby* will guide you to superior outcomes, whatever your previous Ruby experience. Novice Ruby programmers will find specific rules to live by; intermediate Ruby programmers will find valuable principles they can flexibly interpret and apply; and advanced Ruby programmers will find a common language they can use to lead development and guide their colleagues. This guide will help you Understand how object-oriented programming can help you craft Ruby code that is easier to maintain and upgrade Decide what belongs in a single Ruby class Avoid entangling objects that should be kept separate Define flexible interfaces among objects Reduce programming overhead costs with duck typing Successfully apply inheritance Build objects via composition Design cost-effective tests Solve common problems associated with poorly designed Ruby code

Beginning Rails Cloves Carneiro Jr 2008-11-04 This book not only teaches the necessary skill set to become a proficient Ruby on Rails developer, it also explains the theory needed for the developer to explore and learn on their own. The reader will not be burdened by yet another set of "hello world" and other mundane examples. In this text they will learn Ruby on Rails by creating real world projects; a task manager, RSS aggregator, a community manager similar to MySpace.com, and an Amazon based store. While the book covers the basics for beginners, it also offers more advanced tools, including Ajax and a detailed discussion of ActiveRecord and ActionPack.

Ruby on Rails Michael Hartl 2011 Use Michael Hartl's Acclaimed Video Lessons and Best-Selling Book Side by Side to Master Rails Fast! LiveLessons™ DVD with 18+ hours of video instruction—a \$150 value Michael Hartl's Ruby on Rails™ 3 Tutorial, the #1 hands-on guide to Rails web programming—a \$40 value A \$190 value, this package delivers instant skills, answers, and solutions from 18+ hours of video LiveLessons (a \$150 value)...plus deeper insights from Ruby on Rails™ 3 Tutorial, the #1 Rails development guide (a \$40 value). About the LiveLessons DVD These focused video lessons help you learn crucial new skills fast—and put them to work immediately! Watch top Rails developer Michael Hartl guide you through building a complete application using today's best practices for MVC and REST design, layout, Ruby coding, security, testing, deployment, and more. Just place the DVD video in your computer's DVD drive, and master Rails the easy way.

Distributed Programming with Ruby Mark Bates 2009-11-05 Complete, Hands-On Guide to Building Advanced Distributed Applications with Ruby Distributed programming techniques make applications easier to scale, develop, and deploy—especially in emerging cloud computing environments. Now, one of the Ruby community's leading experts has written the first definitive guide to distributed programming with Ruby. Mark Bates begins with a simple distributed application, and then walks through an increasingly complex series of examples, demonstrating solutions to the most common distributed programming problems. Bates presents the industry's most useful coverage of Ruby's standard distributed programming libraries, DRb and Rinda. Next, he introduces powerful third-party tools, frameworks, and libraries designed to simplify Ruby distributed programming, including his own Distribunaut. If you're an experienced Ruby programmer or architect, this hands-on tutorial and practical reference will help you meet any distributed programming challenge, no matter how complex. Coverage includes Writing robust, secure, and interactive applications using DRb—and managing its drawbacks Using Rinda to build applications with improved flexibility, fault tolerance, and service discovery Simplifying DRb service management with RingyDingy Utilizing Starfish to facilitate communication between distributed programs and to write MapReduce functions for processin large data sets Using Politics to customize the processes running on individual server instances in a cloud computing environment Providing reliable distributed queuing with the low-overhead Starling messaging server Implementing comprehensive enterprise messaging with RabbitMQ and Advanced Message Queuing Protocol (AMQP) Offloading heavyweight tasks with BackgroundDRb and DelayedJob

The New Atlas of World History John Haywood 2011 Text, maps, and illustrations present the history of the world from six million years ago to the present day.

Ruby on Rails Tutorial Michael Hartl 2016-11-17 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Used by sites as varied as Twitter, GitHub, Disney, and Airbnb, Ruby on Rails is one of the most popular frameworks for developing web applications, but it can be challenging to learn and use. Whether you're new to web development or new only to Rails, Ruby on Rails™ Tutorial, Fourth Edition, is the solution. Best-selling author and leading Rails developer Michael Hartl teaches Rails by guiding you through the development of three example applications of increasing sophistication. The tutorial's examples focus on the

general principles of web development needed for virtually any kind of website. The updates to this edition include full compatibility with Rails 5, a division of the largest chapters into more manageable units, and a huge number of new exercises interspersed in each chapter for maximum reinforcement of the material. This indispensable guide provides integrated tutorials not only for Rails, but also for the essential Ruby, HTML, CSS, and SQL skills you need when developing web applications. Hartl explains how each new technique solves a real-world problem, and then he demonstrates it with bite-sized code that's simple enough to understand, yet novel enough to be useful. Whatever your previous web development experience, this book will guide you to true Rails mastery. This book will help you install and set up your Rails development environment, including pre-installed integrated development environment (IDE) in the cloud Go beyond generated code to truly understand how to build Rails applications from scratch Learn testing and test-driven development (TDD) Effectively use the Model-View-Controller (MVC) pattern Structure applications using the REST architecture Build static pages and transform them into dynamic ones Master the Ruby programming skills all Rails developers need Create high-quality site layouts and data models Implement registration and authentication systems, including validation and secure passwords Update, display, and delete users Upload images in production using a cloud storage service Implement account activation and password reset, including sending email with Rails Add social features and microblogging, including an introduction to Ajax Record version changes with Git and create a secure remote repository at Bitbucket Deploy your applications early and often with Heroku

Beginning Ruby on Rails Steve Holzner, Ph.D. 2006-11-29 Ruby on Rails is the revolutionary online programming tool that makes creating functional e-commerce web sites faster and easier than ever. With the intuitive, straightforward nature of Ruby and the development platform provided by Rails, you can put together full-fledged web applications quickly, even if you're new to web programming. You will find a thorough introduction to both Ruby and Rails in this book. You'll get the easy instructions for acquiring and installing both; understand the nature of conditionals, loops, methods, and blocks; and become familiar with Ruby's classes and objects. You'll learn to build Rails applications, connect to databases, perform necessary testing, and put the whole thing together to create real-world applications such as shopping carts and online catalogs--apps you can actually use right away. What you will learn from this book * How to install and use Ruby and Rails * Object-oriented programming with Ruby * Rails fundamentals and how to create basic online applications * How to work with HTML controls, use models in Rails applications, and work with sessions * Details on working with databases and creating, editing, and deleting database records * Methods for handling cookies and filters and for caching pages * How to connect Rails with Ajax Who this book is for This book is for anyone who wants to develop online applications using Ruby and Rails. A basic understanding of programming is helpful; some knowledge of HTML is necessary. Wrox Beginning guides are crafted to make learning programming languages and technologies easier than you think, providing a structured, tutorial format that will guide you through all the techniques involved.

Rails AntiPatterns Chad Pytel 2010-11-09 The Complete Guide to Avoiding and Fixing Common Rails 3 Code and Design Problems As developers worldwide have adopted the powerful Ruby on Rails web framework, many have fallen victim to common mistakes that reduce code quality, performance, reliability, stability, scalability, and maintainability. Rails™ AntiPatterns identifies these widespread Rails code and design problems, explains why they're bad and why they happen—and shows exactly what to do instead. The book is organized into concise, modular chapters—each outlines a single common AntiPattern and offers detailed, cookbook-style code solutions that were previously difficult or impossible to find. Leading Rails developers Chad Pytel and Tammer Saleh also offer specific guidance for refactoring existing bad code or design to reflect sound object-oriented principles and established Rails best practices. With their help, developers, architects, and testers can dramatically improve new and existing applications, avoid future problems, and establish superior Rails coding standards throughout their organizations. This book will help you understand, avoid, and solve problems with Model layer code, from general object-oriented programming violations to complex SQL and excessive redundancy Domain modeling, including schema and database issues such as normalization and serialization View layer tools and conventions Controller-layer code, including RESTful code Service-related APIs, including timeouts, exceptions, backgrounding, and response codes Third-party code, including plug-ins and gems Testing, from test suites to test-driven development processes Scaling and deployment Database issues, including migrations and validations System design for “graceful degradation” in the real world

Rails Recipes Chad Fowler 2012 Provides information on creating Web-based applications using Ruby.

The Merb Way Foy Savas 2009-06-24 “Foy is a gifted writer and his descriptions of the philosophies that(impacted the design and implementation of Merb are definitely useful to(everyone affected by the changes in Rails 3.” —Obie Fernandez, Series Editor The Expert Guide to Building Merb Applications Thousands of Ruby and Rails developers are discovering the extraordinary scalability, agility, flexibility, and performance offered by the new Merb MVC framework. The Merb Way is the first comprehensive guide to using, extending, and deploying Merb. Like the bestseller The Rails Way (Addison-Wesley, 2008), this book can either be read cover-to-cover as a tutorial or used for modular coverage that makes it an ideal task reference. Foy Savas systematically covers everything developers need to know to build production-quality Merb applications, offering detailed code examples for jumpstarting virtually any project. Savas is not only involved in the Merb project as an open source contributor: He uses Merb every day as a professional developer. Drawing on his extensive practical expertise, he delves deeply into the Merb framework's architecture and source code, revealing its elegance and offering powerful best practices for using it. To maximize this book's practical value, he also covers the tools most widely used alongside Merb, including the DataMapper ORM, the RSpec tester (and associated behavior-driven development techniques), and several leading Merb plugins. The Merb Way will help you Master Merb innovations that will be incorporated into Rails 3 Understand the fundamentals of Merb development, one step at a time Use Merb's sophisticated application router to guide incoming requests Explore the Merb stack, master its configuration options, and dive into its internals Use Merb controllers to integrate

application code, handle responses, and manage sessions, filters, and exceptions Build templates with both ERB (Erubis) and HAML Use the DataMapper ORM to represent object properties and behaviors Learn best practices for RESTful development with Merb Leverage Helpers to simplify many common development tasks Refactor code, encapsulate it in gems, and share it across multiple applications Customize the responses your application sends to each user Gain a deep, practical understanding of Merb plugins and extensibility Authenticate users with Merb's modular authentication plugin Configure, generate, describe, and test Merb mailers Use the merb-parts gem to create component-like regions on Web pages Cache content to relieve stress on Web servers Make the most of Behavior Driven Development and testing with RSpec

Component-Based Rails Applications Stephan Hagemann 2018-06-22 Use Components to Improve Maintainability, Reduce Complexity, and Accelerate Testing in Large Rails Applications "This book gives Ruby pros a comprehensive guide for increasing the sophistication of their designs, without having to forsake the principles of elegance that keep them in our corner of the software world." —Obie Fernandez, author, *The Rails™ 5 Way*, Fourth Edition As Rails applications grow, even experienced developers find it difficult to navigate code bases, implement new features, and keep tests fast. Components are the solution, and *Component-Based Rails Applications* shows how to make the most of them. Writing for programmers and software team leads who are comfortable with Ruby and Rails, Stephan Hagemann introduces a practical, start-to-finish methodology for modernizing and restructuring existing Rails applications. One step at a time, Hagemann demonstrates how to revamp Rails applications to exhibit visible, provably independent, and explicitly connected parts—thereby simplifying them and making them far easier for teams to manage, change, and test. Throughout, he introduces design concepts and techniques you can use to improve applications of many kinds, even if they weren't built with Rails or Ruby. Learn how components clarify intent, improve collaboration, and simplify innovation and maintenance Create a full Rails application within a component, from first steps to migrations and dependency management Test component-based applications, manage assets and dependencies, and deploy your application to production Identify the seams in an existing Rails application, and refactor it to extract components Master a scripted, repeatable approach for refactoring Rails applications of any size Use component-based Rails with two popular structural patterns: hexagonal and DCI architecture Leverage your new component skills with other frameworks and languages Overcome the unique challenges that arise as you componentize Rails applications If you're ready to simplify and revitalize your complex Rails systems, you're ready for *Component-Based Rails Applications*. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

The Lean Enterprise Trevor Owens 2014-03-31 #1 Amazon Bestseller in Lean Management Discover the methods of lean startups that can revolutionize large organizations and their products Even in a tough economic climate, the startup business community has found a way to create innovative, game-changing products in shockingly short timeframes. So why should larger, more established companies take notice? Because they have everything to gain when they examine and adopt the strategies, tools, and attitudes of these smaller competitors. The *Lean Enterprise* presents a groundbreaking design for revolutionizing larger organizations, one that draws on the ingenious tenets and practices espoused by the startup community. The guidelines in this book will help companies shake the lethargy, bureaucracy, and power struggles that plague large organizations and hold them back from true innovation. At the heart of this resource is a comprehensive, practical approach based on methods, timetables, compensation, financial investment, and case studies that reveal the startup mentality. Respected thought leaders in lean startup methodologies, the authors cover successful enterprise development, development innovation labs, corporate venture arms, and acquisition and integration of startups. Essential reading for entrepreneurs, product managers, executives and directors in Forbes 2000 organizations, and board members Presents the tools and methodologies large businesses need to compete with a new generation of highly-empowered entrepreneurs Covers lean startup culture and principles and identifies the behaviors that are stunting growth at large enterprises Offers a comprehensive, practical approach for developing exciting products and services and opening vast new markets Don't be mystified by the success of startups. Master the methods of this new generation of entrepreneurs and compete on a level playing field.

The Rails 3 Way Obie Fernandez 2011 Provides information on the capabilities and subsystems of Rails for the design and development of production-quality software.

Rails Test Prescriptions Noel Rappin 2010 Provides information on testing procedures and tools for Rails 2 and Rails 3.

The Rails 4 Way Obed (Obie) Fernandez 2014-05-26 The "Bible" for Rails Development: Now Fully Updated for Rails 4.1 "When I read *The Rails Way* for the first time, I felt like I truly understood Rails for the first time." —From the Foreword by Steve Klabnik Ruby on Rails 4 is leaner, tighter, and even more valuable to professional web developers. More than ever, it helps you focus on what matters most: delivering business value via clean and maintainable code. *The Rails™ 4 Way* is the only comprehensive, authoritative guide to delivering production-quality code with Rails 4. Kevin Faustino joins pioneering Rails developer Obie Fernandez to illuminate the entire Rails 4 API, including its most powerful and modern idioms, design approaches, and libraries. They present extensive new and updated content on security, performance, caching, Haml, RSpec, Ajax, the Asset Pipeline, and more. Through detailed code examples, you'll dive deep into the Rails 4 code base, discover why Rails is designed as it is, and learn how to make it do exactly what you want. Proven in dozens of production systems, this book's techniques will maximize your productivity and help you build more successful solutions. You'll want to keep this guide by your computer—you'll refer to it constantly. This guide will help you Build powerful, scalable REST-compliant APIs Program complex program flows using Action Controller Represent models, relationships, CRUD operations, searches, validation, callbacks, and more Smoothly evolve application database schema via Migrations Apply advanced Active Record techniques: single-table inheritance, polymorphic models, and more Create visual elements with Action View and partials Optimize performance and scalability with view caching Master the highly productive Haml HTML templating engine Make the most of

Rails' approach to session management Secure your systems with Rails 4's improved authentication and authorization Resist SQL Injection, XSS, XSRF, and other attacks Extend Rails with popular gems and plugins, and learn to write your own Integrate email services with Action Mailer Use Ajax via Rails 4 support for unobtrusive JavaScript Improve responsiveness with background processing Leverage Asset Pipeline to simplify development, improve perceived performance, and reduce server burdens Accelerate implementation and promote maintainability with RSpec

Safari Books Online Webcast: The Rails 3 Way Obie Fernandez 2012 "Ruby on Rails is exploding into mainstream popularity as programmers openly revolt against heavy and overly complex Java and .NET web development tools and libraries. During this complimentary webcast, pioneering Rails developer Obie Fernandez will: - Illuminate the Rails 3 API, along with the Ruby idioms, design approaches, libraries, and plug-ins that make Rails so valuable. - Present advanced programming techniques, introduce open source libraries that facilitate easy Rails adoption, and offer important insights into testing and production deployment. - Dive into the Rails codebase and discover why Rails behaves as it does and how to make it behave the way you want it to. Ruby on Rails strips complexity from the development process, enabling professional developers to focus on what matters most: delivering business value. Hear the author address the real challenges development teams face as he shows you how to use Rails' tools and best practices to maximize productivity and build polished applications users will enjoy."--Resource description page.

The Node Craftsman Book Manuel Kiessling 2017-04-28 Become a Node.js craftsman. About This Book This book will help readers to dive deeper into software development with Node.js and JavaScript Takes a craftsman approach to Node.js and object-orientation and test-driven development Crafts many of the small details of Node.js and through to fully-fledged web applications with REST Who This Book Is For This book is written to help you if you're working with Node.js already, but you want to move your craft to the next level with Node.js, so some working knowledge of Node.js is of course already assumed, so that we can look at the work of crafting applications with Node. What You Will Learn How to connect to databases like MongoDB and MySQL from your Node.js application How to unit tests and end-to-end tests for your code When and how to leverage migrations for setting up a continuous deployment workflow Detailed insight into how the Node Package Manager, NPM works How object-orientation actually works in JavaScript Ways to keep your code fast and efficient using asynchronous and non-blocking operations How to use and create event emitters How to use REST frameworks to write full-fledged web applications How to integrate Node.js with Angular In Detail The Node Craftsman Book helps JavaScript programmers with basic Node.js knowledge to now thoroughly master Node.js and JavaScript. This book dives you deeper into the craft of software development with Node.js and JavaScript, including object-orientation, test-driven development, database handling, web frameworks, and much more. The Node Craftsman Book shows you how to work with Node.js and how to think deeply about how you build your Node projects. You'll master how to build a complete Node.js application across six crafting milestones, and you'll learn many specific skills to achieve that mastery. These skills include how to work with the Node Package Manager in depth, how to connect your Node applications to databases, and how to write unit tests and end-to-end tests for your code. You'll experience the full Node.js development picture, and learn how to craft and control your Node.js applications - right through to fully-fledged web applications using REST, and integration with Angular applications. Style and approach This book builds on your early knowledge and experience of Node.js and takes a craftsman approach to understanding the whole picture more deeply and shaping your Node applications to perform the way a craftsman would want. So, we take a thoughtful and broad thinking and coding approach to work with Node.js in this book.

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

Ten Essays on Fizz Buzz Joel Grus 2020-08-13 "This book is so good. I wish I'd written it." -- Tim Hopper (@tdhopper)"Highly recommended: a grand tour of computer science theory and practical software engineering, explored through the lens of 10 Fizz Buzz solutions in Python. Outstanding." -- Paco Nathan (@pacoid)"I'd never have thought a book about Fizz Buzz would make me a better programmer, but I was wrong. Joel in the course of 10 chapters does a broad survey of core Python concepts, software design and testing, mathematics, and more (including deep learning) using Fizz Buzz as the guiding example. It's that rare technical book that remains engaging, entertaining, and accessible." -- Binal Patel (@binalkp91)More real Python tips than any "Python tricks" book! From a Python beginner to an experienced ML practitioner, you're bound to learn something about the language and its application to a progressive level of algorithmic applications. Recommended for the anyone looking to "level up" their Python or problem solving skills! -- Tom Marthaler (@tmarthal)Fizz Buzz is the following (simple) problem: Print the numbers from 1 to 100, except that if the number is divisible by 3, instead print "fizz"; if the number

is divisible by 5, instead print "buzz"; and if the number is divisible by 15, instead print "fizzbuzz". It originated as a children's game, but has since taken on a new life as a lowest-common-denominator litmus test for assessing computer programmers. If you are an experienced programmer, it is an extremely easy problem to solve. Because of this, it has taken on a third life as the prototypical bad interview problem. Everyone knows that it's the question you ask people to make sure that they're not completely incompetent as programmers. Accordingly, if your interviewer asks you to solve it, he's suggesting he thinks it possible that you're completely incompetent as a programmer. You would not be wrong to feel insulted! My association with this problem began in 2016, when I wrote a blog post called Fizz Buzz in Tensorflow, the (possibly fictional) story of one such insulted programmer who decided to show up his interviewer by approaching Fizz Buzz as a deep learning problem. This post went modestly viral, and ever since then I have been seen as a thought leader in the Fizz Buzz space. Accordingly, over the years I have come up with and/or collected various other stupid and/or clever ways of solving Fizz Buzz. I have not blogged about them, as I am not the sort of person who beats a joke to death, but occasionally I will tweet about them, and recently in response someone suggested that I write a book on "100 Ways of Writing Fizz Buzz in Python." Now, I could probably come up with 100 ways of solving Fizz Buzz, but most of them would not be very interesting. Luckily for you, I was able to come up with 10 that are interesting in various ways, each of which turned out to be a good launching-off point for (sometimes meandering) discussions of various aspects of coding, Python, Fizz Buzz, mathematics, software design, technical interviewing, and various other topics. Hence "Ten Essays on Fizz Buzz". In many ways this is a strange book. Its goal is not to teach you a specific field or a specific technology. I hope you will learn a lot from reading it, but it's not really a book that you'd read in order to learn anything in particular. Most technical books are about specific technical topics; this one sort of isn't. Nonetheless, it is a technical book. Each essay contains code that implements a different solution of Fizz Buzz. Each essay uses code to illustrate its ideas. Each essay represents my current best thinking about how to solve problems using code. If you have a coding job, you should feel no reluctance to expense this book to your employer

The Well-Grounded Rubyist Joe Leo 2019-03-05 Summary The Well-Grounded Rubyist, Third Edition is a beautifully written tutorial that begins with your first Ruby program and takes you all the way to sophisticated topics like reflection, threading, and recursion. Ruby masters David A. Black and Joe Leo distill their years of knowledge for you, concentrating on the language and its uses so you can use Ruby in any way you choose. Updated for Ruby 2.5. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Designed for developer productivity, Ruby is an easy-to-learn dynamic language perfect for creating virtually any kind of software. Its famously friendly development community, countless libraries, and amazing tools, like the Rails framework, have established it as the language of choice for high-profile companies, including GitHub, SlideShare, and Shopify. The future is bright for the well-grounded Rubyist! About the Book In The Well-Grounded Rubyist, Third Edition, expert authors David A. Black and Joseph Leo deliver Ruby mastery in an easy-to-read, casual style. You'll lock in core principles as you write your first Ruby programs. Then, you'll progressively build up to topics like reflection, threading, and recursion, cementing your knowledge with high-value exercises to practice your skills along the way. What's Inside Basic Ruby syntax Running Ruby extensions FP concepts like currying, side-effect-free code, and recursion Ruby 2.5 updates About the Reader For readers with beginner-level programming skills. About the Authors David A. Black is an internationally known Ruby developer and author, and a cofounder of Ruby Central. Ruby teacher and advocate Joseph Leo III is the founder of Def Method and lead organizer of the Gotham Ruby Conference. Table of Contents PART 1 RUBY FOUNDATIONS Bootstrapping your Ruby literacy Objects, methods, and local variables Organizing objects with classes Modules and program organization The default object (self), scope, and visibility Control-flow techniques PART 2 BUILT-IN CLASSES AND MODULES Built-in essentials Strings, symbols, and other scalar objects Collection and container objects Collections central: Enumerable and Enumerator Regular expressions and regexp-based string operations File and I/O operations PART 3 RUBY DYNAMICS Object individuation Callable and runnable objects Callbacks, hooks, and runtime introspection Ruby and functional programming

The Node Beginner Book Manuel Kiessling 2012

Programming with C++20 Andreas Fertig 2021-11-26 Programming with C++20 teaches programmers with C++ experience the new features of C++20 and how to apply them. It does so by assuming C++11 knowledge. Elements of the standards between C++11 and C++20 will be briefly introduced, if necessary. However, the focus is on teaching the features of C++20. You will start with learning about the so-called big four Concepts, Coroutines, `std::ranges`, and modules. The big four are followed by smaller yet not less important features. You will learn about `std::format`, the new way to format a string in C++. In chapter 6, you will learn about a new operator, the so-called spaceship operator, which makes you write less code. You then will look at various improvements of the language, ensuring more consistency and reducing surprises. You will learn how lambdas improved in C++20 and what new elements you can now pass as non-type template parameters. Your next stop is the improvements to the STL. Of course, you will not end this book without learning about what happened in the `constexpr`-world.

The Pester Book Don Jones 2017-02-20 Learn Pester, the unit testing framework for PowerShell! Now bundled with the Windows operating system, Pester is an open-source framework for building automated tests for your PowerShell code. PowerShell MVPs Don Jones and Adam Bertram combine deep expertise and production experience to cover not only Pester's syntax, but numerous walkthroughs and case studies. This concise, yet in-depth guide will have you "up and testing" in no time.

the-rails-way-obie-fernandez

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