

Addison-Wesley Professional Ruby Series



DISTRIBUTED PROGRAMMING WITH RUBY

Foreword by **Obie Fernandez**, *Series Editor*

MARK BATES

Distributed Programming With Ruby Mark Bates

**Joseph Bergin, Mark Stehlik, Jim
Roberts**



Distributed Programming With Ruby Mark Bates:

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

Programming in CoffeeScript Mark Bates, 2012 Use CoffeeScript to Write Better JavaScript Code Than Ever Before If you can do it in JavaScript you can do it better in CoffeeScript And since CoffeeScript compiles down to JavaScript your code will fit neatly into virtually any web environment In *Programming in CoffeeScript* Mark Bates shows web developers why CoffeeScript is so useful and how it avoids the problems that often make JavaScript code buggy and unmanageable He guides you through every feature and technique you need to write quality CoffeeScript code and shows how to take advantage of CoffeeScript s increasingly robust toolset Bates begins with the absolute basics of running and compiling CoffeeScript and then introduces syntax control structures functions collections and classes Through same page code comparisons you ll discover exactly how CoffeeScript improves on JavaScript Next you ll put it to work in building applications that are powerful flexible maintainable concise reliable and secure Bates shares valuable tips for better development illuminating CoffeeScript s hidden gems and warning you about its remaining rough edges The book concludes with a start to finish application case study showing how to code back ends and front ends and integrate powerful frameworks and libraries Coverage includes Understanding the right ways to compile and execute CoffeeScript Using CoffeeScript s clean syntax to focus on your code not JavaScript s distractions Working with CoffeeScript s control structures functions and arguments Taking full advantage of CoffeeScript s implementation of collections and iterators Leveraging

CoffeeScript's full class support to create complex data models Automating common application development tasks with Cake and Cakefiles Configuring Jasmine with CoffeeScript support and using it to systematically test your code Writing Node.js server side applications in CoffeeScript Using CoffeeScript to write jQuery and Backbone.js applications Integrating framework code to avoid reinventing the wheel Want a better way to create the JavaScript code your web applications need CoffeeScript is the solution and this book will help you master it

Ruby on Rails Tutorial Michael Hartl, 2013 Trademark symbol appears after rails in title

CoffeeScript. Второе дыхание JavaScript Марк Бейтс, 2022-01-29 JavaScript CoffeeScript CoffeeScript JavaScript CoffeeScript JavaScript CoffeeScript CoffeeScript JavaScript

Mark Bates on Ruby Techniques, Frameworks, and Tools Mark Bates, 2015 Ruby is a flexible open source programming language with deep roots in both Perl and Lisp developed by Yukihiro Matz Matsumoto The language itself is perfect for constructing web applications big and small but with the libraries frameworks and tools created by its community it goes above and beyond Mark Bates on Ruby Techniques Frameworks and Tools is a video that shows you how to build web applications using Ruby Bates guides you through numerous areas and functionalities of Ruby including working with Rack Sinatra Singletons Redis Opal and more Bates the founder and chief architect of Meta42 Labs in Boston is a seasoned developer with the scars to prove it His expertise on Ruby will save you from getting bruised and battered yourself Resource description page

Courses and Degrees Stanford University, 1992 **Stanford Bulletin**, 1997 **Forthcoming Books** Rose Army, 1995-02 **Who's who in Finance and Industry**, 1987 Programming Distributed Systems H. E. Bal, 1990

Learn Game Programming with Ruby Mark Sobkowicz, 2015 **The dRuby Book** Masatoshi Seki, 2012 Completely updated and expanded from its Japanese version with three new chapters written by Seki this guide contains design concepts of the dRuby library and step by step tutorial examples *Karel R Tuesday* Joseph Bergin, Mark Stehlik, Jim Roberts, 2013-04 Karel R Tuesday is an introduction to computer programming for novices It uses the Ruby programming language to introduce the principles of dynamic object oriented programming It is the latest version in the Karel The Robot series originally developed by Richard Pattis It is a true successor to the original emphasizing problem solving in a simple but Turing Complete and interesting virtual world Karel R Tuesday stresses problem solving rather than language syntax It has been shown to be an effective learning environment for novice programmers A student able to do the exercises in this book or one of its companions is truly on his or her way to a deep understanding of programming Learn to write sophisticated Ruby code in a few weeks It is not a comprehensive treatment of Ruby but emphasizes problem solving using objects writing classes and developing skill in algorithmic and polymorphic thinking It goes beyond thinking of computing as just if and while The advantages pointed out by reviewers of the earlier Karel J Robot apply to this version as well Karel J Robot is an excellent introduction to modern computer science without letting students get overwhelmed by the details of a programming language even though it is real Java KJR provides a framework for understanding Object Oriented Programming from the

very beginning Students are encouraged to develop problem solving skills by producing projects that solve very complex problems with a relatively small set of tools Don Slater Carnegie Mellon University I have been successfully introducing students in grades 9 through 12 to programming using Karel for the past twenty years and Karel J Robot is the most effective version yet Students love it They find principles of OOP class design constructors methods inheritance polymorphism come naturally to them even before they learn about control structures They discover recursive solutions without ever being taught recursion Best of all Karel is gender neutral both girls and boys are so involved and excited that I have to push them out the door and on to their next class when the period ends Kathy Larson Kingston High School Kingston New York Karel J Robot A Gentle Introduction to the Art of Object Oriented Programming in Java takes you on a well sequenced and thoughtful journey through the essential concepts in a first semester computer science course Experience computer science at the level that it is most inspiring the conceptual level The visual environment will help you teach and your students learn because everyone will have immediate visual feedback enabling them to see what they are doing You will leave the Karel world with a deep understanding of polymorphism inheritance abstraction modularization and step wise refinement to name just a few topics If you are an AP Computer Science teacher you have just found the perfect guide to help ensure you do not lose sight of the forest i e computer science through the trees i e the details of the language Dave Wittry Troy High School Karel J Robot provides an uncluttered setting for laying the foundation for all of the key OO concepts The perfect starter for understanding objects OO design and OO programming Michael Goldweber Xavier University Distributed Programming A. Udaya Shankar,2012-09-15 Distributed Programming Theory and Practice presents a practical and rigorous method to develop distributed programs that correctly implement their specifications The method also covers how to write specifications and how to use them Numerous examples such as bounded buffers distributed locks message passing services and distributed termination detection illustrate the method Larger examples include data transfer protocols distributed shared memory and TCP network sockets Distributed Programming Theory and Practice bridges the gap between books that focus on specific concurrent programming languages and books that focus on distributed algorithms Programs are written in a real life programming notation along the lines of Java and Python with explicit instantiation of threads and programs Students and programmers will see these as programs and not merely algorithms in pseudo code The programs implement interesting algorithms and solve problems that are large enough to serve as projects in programming classes and software engineering classes Exercises and examples are included at the end of each chapter with on line access to the solutions Distributed Programming Theory and Practice is designed as an advanced level text book for students in computer science and electrical engineering Programmers software engineers and researchers working in this field will also find this book useful **The Power of Ruby** Rachel Keranen,2017-12-15 Although Yukihiro Matsumoto released Ruby in 1995 it would take more than a decade for the programming language to achieve widespread adoption Today Ruby is one of the fastest growing coding

languages and it is behind major sites like Hulu and Twitter This book describes the history of the language the relationship between Ruby and Ruby on Rails and why Ruby is an ideal first language for new programmers complete with tips on how readers can get started

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

Introduction to Reliable Distributed Programming Rachid Guerraoui, Luís Rodrigues, 2006-05-01 In modern computing a program is usually distributed among several processes The fundamental challenge when developing reliable distributed programs is to support the cooperation of processes required to execute a common task even when some of these processes fail Guerraoui and Rodrigues present an introductory description of fundamental reliable distributed programming

abstractions as well as algorithms to implement these abstractions The authors follow an incremental approach by first introducing basic abstractions in simple distributed environments before moving to more sophisticated abstractions and more challenging environments Each core chapter is devoted to one specific class of abstractions covering reliable delivery shared memory consensus and various forms of agreement This textbook comes with a companion set of running examples implemented in Java These can be used by students to get a better understanding of how reliable distributed programming abstractions can be implemented and used in practice Combined the chapters deliver a full course on reliable distributed programming The book can also be used as a complete reference on the basic elements required to build reliable distributed applications

The Ruby Programming Language David Flanagan,Yukihiro Matsumoto,2008-01-25 The Ruby Programming Language is the authoritative guide to Ruby and provides comprehensive coverage of versions 1.8 and 1.9 of the language It was written and illustrated by an all star team David Flanagan bestselling author of programming language bibles including JavaScript The Definitive Guide and Java in a Nutshell and committer to the Ruby Subversion repository Yukihiro Matsumoto creator designer and lead developer of Ruby and author of Ruby in a Nutshell which has been expanded and revised to become this book why the lucky stiff artist and Ruby programmer extraordinaire This book begins with a quick start tutorial to the language and then explains the language in detail from the bottom up from lexical and syntactic structure to datatypes to expressions and statements and on through methods blocks lambdas closures classes and modules The book also includes a long and thorough introduction to the rich API of the Ruby platform demonstrating with heavily commented example code Ruby's facilities for text processing numeric manipulation collections input output networking and concurrency An entire chapter is devoted to Ruby's metaprogramming capabilities The Ruby Programming Language documents the Ruby language definitively but without the formality of a language specification It is written for experienced programmers who are new to Ruby and for current Ruby programmers who want to challenge their understanding and increase their mastery of the language

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

Introduction to Reliable and Secure Distributed Programming Christian Cachin,Rachid Guerraoui,Luís Rodrigues,2011-02-11 In modern computing a program is usually distributed among several processes The fundamental challenge when developing reliable and secure distributed programs is to support the cooperation of processes required to execute a common task even when some of these processes fail Failures may range from crashes to adversarial attacks by malicious processes Cachin Guerraoui and Rodrigues present an introductory description of fundamental distributed programming abstractions together with algorithms to implement them in distributed systems where processes are subject to crashes and malicious attacks The authors follow an incremental approach by first introducing basic abstractions in simple distributed environments before moving to more sophisticated

abstractions and more challenging environments Each core chapter is devoted to one topic covering reliable broadcast shared memory consensus and extensions of consensus For every topic many exercises and their solutions enhance the understanding This book represents the second edition of Introduction to Reliable Distributed Programming Its scope has been extended to include security against malicious actions by non cooperating processes This important domain has become widely known under the name Byzantine fault tolerance

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Table of Contents Distributed Programming With Ruby Mark Bates

1. Understanding the eBook Distributed Programming With Ruby Mark Bates
 - The Rise of Digital Reading Distributed Programming With Ruby Mark Bates
 - Advantages of eBooks Over Traditional Books
2. Identifying Distributed Programming With Ruby Mark Bates
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Distributed Programming With Ruby Mark Bates
 - User-Friendly Interface
4. Exploring eBook Recommendations from Distributed Programming With Ruby Mark Bates
 - Personalized Recommendations
 - Distributed Programming With Ruby Mark Bates User Reviews and Ratings
 - Distributed Programming With Ruby Mark Bates and Bestseller Lists
5. Accessing Distributed Programming With Ruby Mark Bates Free and Paid eBooks
 - Distributed Programming With Ruby Mark Bates Public Domain eBooks
 - Distributed Programming With Ruby Mark Bates eBook Subscription Services
 - Distributed Programming With Ruby Mark Bates Budget-Friendly Options

6. Navigating Distributed Programming With Ruby Mark Bates eBook Formats
 - ePub, PDF, MOBI, and More
 - Distributed Programming With Ruby Mark Bates Compatibility with Devices
 - Distributed Programming With Ruby Mark Bates Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Distributed Programming With Ruby Mark Bates
 - Highlighting and Note-Taking Distributed Programming With Ruby Mark Bates
 - Interactive Elements Distributed Programming With Ruby Mark Bates
8. Staying Engaged with Distributed Programming With Ruby Mark Bates
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Distributed Programming With Ruby Mark Bates
9. Balancing eBooks and Physical Books Distributed Programming With Ruby Mark Bates
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Distributed Programming With Ruby Mark Bates
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Distributed Programming With Ruby Mark Bates
 - Setting Reading Goals Distributed Programming With Ruby Mark Bates
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Distributed Programming With Ruby Mark Bates
 - Fact-Checking eBook Content of Distributed Programming With Ruby Mark Bates
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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