



PRACTICAL OBJECT-ORIENTED DESIGN

AN AGILE PRIMER USING RUBY

SECOND EDITION



SANDI METZ

Practical Object Oriented Design In Ruby Sandi Metz

Myron Marston, Ian Dees



Practical Object Oriented Design In Ruby Sandi Metz:

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

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

Practical Object-oriented Design in Ruby : an Agile Primer Sandi Metz,2013 The Librarian's Introduction to Programming Languages Beth Thomsett-Scott,2016-06-21 The Librarian's Introduction to Programming Languages presents case studies and practical applications for using the top programming languages in library and information settings While there are books and Web sites devoted to teaching programming there are few works that address multiple programming languages or address the specific reasons why programming is a critical area of learning for library and information science professionals There are many books on programming languages but no recent items directly written for librarians that span a variety of programs Many practicing librarians see programming as something for IT people or beyond their capabilities This book will help these librarians to feel comfortable discussion programming with others by providing an understanding of when the language might be useful what is needed to make it work and relevant tools to extend its application Additionally the inclusion of practical examples lets readers try a small app for the language This also will assist readers who want to learn a language but are unsure of which language would be the best fit for them in terms of learning curve and application Languages covered are JavaScriptPERLPHPSQLPythonRubyCC Java This book is designed to provide a basic working knowledge of each language presented case studies which show the programming language used in real ways and resources for exploring each language in more detail **Learning Chef** Mischa Taylor,Seth Vargo,2014-11-06 Get a hands on introduction to the Chef the configuration management tool for solving operations issues in enterprises large and small Ideal for developers and sysadmins new to configuration management this guide shows you to automate the packaging and delivery of applications in your infrastructure You ll be able to build or rebuild your infrastructure's application stack in minutes or hours rather than days or weeks After teaching you how to write Ruby based Chef code this book walks you through different Chef tools and configuration management concepts in each chapter using detailed examples throughout All you need to get started is command line experience and familiarity with basic system administration Configure your Chef development environment and start writing recipes Create Chef cookbooks with recipes for each part of your infrastructure Use Test Kitchen to manage sandbox testing environments Manage single nodes with Chef client and multiple nodes with Chef Server Use data bags for storing shared global data between nodes Simulate production Chef Server environments with Chef Zero Classify different types of services in your infrastructure with roles Model life stages of your application including development testing staging and production **Learning Rails 5** J. Mark Locklear,Barnabas Bulpett,Eric J Gruber,2016-08-11 If you're a web developer or designer ready to learn Ruby on Rails this hands on guide is the ideal way to get started Rather than toss you into the middle of the framework's Model View Controller architecture as many books do Learning Rails 5 begins with the foundations of the Web you already know You ll learn how to create something visible with Rails view layer before diving into the more difficult inner layers the database models and controller code All you need to begin your Rails journey is HTML experience Each chapter includes exercises and review questions to test your

understanding as you go Present content by building an application with a basic view and a simple controller Build forms and process their results progressing from simple to more complex Use Rails scaffolding and REST to build effective applications quickly Connect forms to models and create code that maps directly to database structures Build applications that combine data from multiple tables Use migrations to track changes to your database over time Add common elements such as sessions cookies and authentication

Test-Driven Infrastructure with Chef Stephen Nelson-Smith,2013-10-11 Since Test Driven Infrastructure with Chef first appeared in mid 2011 infrastructure testing has begun to flourish in the web ops world In this revised and expanded edition author Stephen Nelson Smith brings you up to date on this rapidly evolving discipline including the philosophy driving it and a growing array of tools You ll get a hands on introduction to the Chef framework and a recommended toolchain and workflow for developing your own test driven production infrastructure Several exercises and examples throughout the book help you gain experience with Chef and the entire infrastructure testing ecosystem Learn how this test first approach provides increased security code quality and peace of mind Explore the underpinning philosophy that infrastructure can and should be treated as code Become familiar with the MASCOT approach to test driven infrastructure Understand the basics of test driven and behavior driven development for managing change Dive into Chef fundamentals by building an infrastructure with real examples Discover how Chef works with tools such as Virtualbox and Vagrant Get a deeper understanding of Chef by learning Ruby language basics Learn the tools and workflow necessary to conduct unit integration and acceptance tests

Getting to Know Ruby Heather Moore Niver,2014-07-15 The book provides an introduction to the open source programming language known as Ruby including the language s history the basics of operation and implementation of the system s application framework Ruby on Rails

Thoughtful Machine Learning with Python Matthew Kirk,2017-01-16 Gain the confidence you need to apply machine learning in your daily work With this practical guide author Matthew Kirk shows you how to integrate and test machine learning algorithms in your code without the academic subtext Featuring graphs and highlighted code examples throughout the book features tests with Python s Numpy Pandas Scikit Learn and SciPy data science libraries If you re a software engineer or business analyst interested in data science this book will help you Reference real world examples to test each algorithm through engaging hands on exercises Apply test driven development TDD to write and run tests before you start coding Explore techniques for improving your machine learning models with data extraction and feature development Watch out for the risks of machine learning such as underfitting or overfitting data Work with K Nearest Neighbors neural networks clustering and other algorithms

Effective Testing with RSpec 3 Myron Marston,Ian Dees,2017-08-30 Our tests are broken again Why does the suite take so long to run What value are we getting from these tests anyway Solve your testing problems by building and maintaining quality software with RSpec the popular BDD flavored Ruby testing framework This definitive guide from RSpec s lead developer shows you how to use RSpec to drive more maintainable designs specify and document expected behavior and

prevent regressions during refactoring Build a project using RSpec to design describe and test the behavior of your code Whether you re new to automated tests or have been using them for years this book will help you write more effective tests RSpec has been downloaded more than 100 million times and has inspired countless test frameworks in other languages Use this influential Ruby testing framework to iteratively develop a project with the confidence that comes from well tested code This book guides you through creating a Ruby project with RSpec and explores the individual components in detail Start by learning the basics of installing and using RSpec Then build a real world JSON API using RSpec throughout the process to drive a BDD style outside in workflow Apply an effective test strategy to write fast robust tests that support evolutionary design through refactoring The rest of the book provides the definitive guide to RSpec s components Use rspec core s metadata to slice and dice your spec suite Dig into rspec expectations matchers compose them in flexible ways specify expected outcomes with precision and diagnose problems quickly with the help of good failure messages Write fast isolated tests with rspec mocks test doubles while pushing your code toward simpler interfaces The authors with a combined 20 years of automated testing experience share testing wisdom that will lead to a fun productive testing experience What You Need To follow along with the book you ll need Ruby 2.2 The book will guide you through installing RSpec 3 and setting up a new project to use it

Effective Ruby Peter J. Jones, 2014-09-08 If you re an experienced Ruby programmer *Effective Ruby* will help you harness Ruby s full power to write more robust efficient maintainable and well performing code Drawing on nearly a decade of Ruby experience Peter J Jones brings together 48 Ruby best practices expert tips and shortcuts all supported by realistic code examples Jones offers practical advice for each major area of Ruby development from modules to memory to metaprogramming Throughout he uncovers little known idioms quirks pitfalls and intricacies that powerfully impact code behavior and performance Each item contains specific actionable clearly organized guidelines careful advice detailed technical arguments and illuminating code examples When multiple options exist Jones shows you how to choose the one that will work best in your situation *Effective Ruby* will help you systematically improve your code not by blindly following rules but by thoroughly understanding Ruby programming techniques Key features of this concise guide include How to avoid pitfalls associated with Ruby s sometimes surprising idiosyncrasies What you should know about inheritance hierarchies to successfully use Rails and other large frameworks How to use misunderstood methods to do amazingly useful things with collections Better ways to use exceptions to improve code reliability Powerful metaprogramming approaches and techniques to avoid Practical efficient testing solutions including MiniTest Unit and Spec Testing How to reliably manage RubyGem dependencies How to make the most of Ruby s memory management and profiling tools How to improve code efficiency by understanding the Ruby interpreter s internals

Puppet Best Practices Chris Barbour, Jo Rhett, 2018-08-24 If you maintain or plan to build Puppet infrastructure this practical guide will take you a critical step further with best practices for managing the task successfully Authors Chris Barbour and Jo Rhett present best in class design patterns for deploying

Puppet environments and discuss the impact of each The conceptual designs and implementation patterns in this book will help you create solutions that are easy to extend maintain and support Essential for companies upgrading their Puppet deployments this book teaches you powerful new features and implementation models that weren't available in the older versions DevOps engineers will learn how best to deploy Puppet with long term maintenance and future growth in mind Explore Puppet's design philosophy and data structures Get best practices for using Puppet's declarative language Examine Puppet resources in depth the building blocks of state management Learn to model and describe business and site specific logic in Puppet See best in class models for multitiered data management with Hiera Explore available options and community experience for node classification Utilize r10k to simplify and accelerate Puppet change management Review the cost benefits of creating your own extensions to Puppet Get detailed advice for extending Puppet in a maintainable manner

Skill Up: A Software Developer's Guide to Life and Career Jordan Hudgens, 2017-07-31 This unique book provides you with a wealth of tips tricks best practices and answers to the day to day questions that programmers face in their careers It is split into three parts Coder Skills Freelancer Skills and Career Skills providing the knowledge you need to get ahead in programming About This Book Over 50 essays with practical advice on improving your programming career Practical focus gives solutions to common problems and methods to become a better coder Includes advice for existing programmers and those wanting to begin a career in programming Who This Book Is For This book is useful for programmers of any ability or discipline It has advice for those thinking about beginning a career in programming those already working as a fully employed programmer and for those working as freelance developers What You Will Learn Improve your soft skills to become a better and happier coder Learn to be a better developer Grow your freelance development business Improve your development career Learn the best approaches to breaking down complex topics Have the confidence to charge what you're worth as a freelancer Succeed in developer job interviews In Detail This is an all purpose toolkit for your programming career It has been built by Jordan Hudgens over a lifetime of coding and teaching coding It helps you identify the key questions and stumbling blocks that programmers encounter and gives you the answers to them It is a comprehensive guide containing more than 50 insights that you can use to improve your work and to give advice in your career The book is split up into three topic areas Coder Skills Freelancer Skills and Career Skills each containing a wealth of practical advice Coder Skills contains advice for people starting out or those who are already working in a programming role but want to improve their skills It includes such subjects as how to study and understand complex topics and getting past skill plateaus when learning new languages Freelancer Skills contains advice for developers working as freelancers or with freelancers It includes such subjects as knowing when to fire a client and tips for taking over legacy applications Career Skills contains advice for building a successful career as a developer It includes such subjects as how to improve your programming techniques and interview guides and developer salary negotiation strategies Style and approach This unique book provides

over 50 insightful essays full of practical advice for improving your programming career The book is split into three broad sections covering different aspects of a developer s career Each essay is self contained and can be read individually or in chunks

PowerShell 7 Workshop Nick Parlow,2024-02-29 Leverage PowerShell 7 to write code on Windows Linux and Raspberry Pi to accomplish real world tasks with this practical guide Key Features Master the art of coding with Microsoft s free open source cross platform language Understand essential programming concepts such as loops and objects through practical examples Practice using PowerShell 7 with websites APIs and physical computing devices like Raspberry Pi Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionDiscover the capabilities of PowerShell 7 for your everyday tasks with this carefully paced tutorial that will help you master this versatile programming language The first set of chapters will show you where to find and how to install the latest version of PowerShell providing insights into the distinctive features that set PowerShell apart from other languages You ll then learn essential programming concepts such as variables and control flow progressing to their applications As you advance you ll work with files and APIs writing scripts functions and modules You ll also gain proficiency in securing your PowerShell environment before venturing into different operating systems Enriched with detailed practical examples tailored for Windows Linux macOS and Raspberry Pi each chapter weaves real world scenarios to ignite your imagination and cement the principles you learn You ll be able to reinforce your understanding through self assessment questions and delve deeper into the principles using comprehensive reading lists By the end of this book you ll have the confidence to use PowerShell for physical computing and writing scripts for Windows administration What you will learn Grasp the distinctive object oriented nature of PowerShell 7 Explore the practical applications of standard programming concepts such as control flow Find out how to interact with websites and APIs Implement best practices to secure your PowerShell environment and write secure code Get to grips with writing scripts functions and modules Develop the skills to troubleshoot your code Deploy PowerShell on various operating systems Who this book is for This book uses everyday language to explain concepts and has simple examples to explain complex principles It is suitable for early careers IT professionals architects system engineers secondary school pupils and university students who are interested in learning this powerful language

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

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NathanYoungman,RogerPeppé,2019-05-13 Go 2009 Go Web HTML Go 1 GitHub Go Go Nathan Youngman Web Edmonton Go Canada Learning Code Go gopher Roger Pepp Go Go Newcastle upon Tyne Go Go Programmare con Go Nathan Youngman,Roger Peppé,2019-05-02T00:00:00+02:00 Creato da Google Go pensato per i programmatori che cercano un linguaggio facile ed espressivo ma allo stesso tempo potente e in grado di fornire performance elevate Queste caratteristiche lo rendono ideale sia per chi alle prime armi sia per i professionisti che gi padroneggiano altri linguaggi Questo volume insegna le basi di Go in modo chiaro andando subito al punto privilegiando la pratica alla teoria Gli esempi e gli esercizi presentati possono essere facilmente testati online in Go Playground un ambiente virtuale dedicato all apprendimento di Go Si parte dalla sintassi di base del linguaggio per poi approfondire la gestione di dati diversi e l uso di metodi e funzioni Quindi viene affrontato l approccio di Go alla programmazione a oggetti prima di concludere spiegando la gestione degli errori e la programmazione concorrente La lettura adatta anche a chi non ha particolari esperienze di programmazione mentre chi ha gi una conoscenza di base di un linguaggio come JavaScript PHP Python o Ruby trover in questo libro un riferimento prezioso per imparare a programmare con Go con facilità

Rails 4 in Action Rebecca Skinner,Yehuda Katz,Ryan Bigg,Stephen Klabnik,2015-08-30 Summary Rails 4 in Action is a comprehensive introduction to Rails that guides you hands on through all you ll need to become a competent and confident Rails developer In it you ll master Rails 4 by developing a ticket tracking application that includes RESTful routing authentication and authorization file uploads email and more Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book Rails is a full stack open source web framework powered by Ruby Now in version 4 Rails is mature and powerful and to use it effectively you need more than a few Google searches You ll find no substitute for the guru s eye view of design testing deployment and other real world concerns that this book provides Rails 4 in Action is a hands on guide to the subject In this fully revised new edition you ll master Rails 4 by developing a ticket tracking application that includes RESTful routing authentication and authorization file uploads email and more Learn to design your own APIs and successfully deploy a production quality application You ll see test driven development and behavior driven development in action throughout the book just like in a top Rails shop What s Inside Creating your own APIs Using RSpec and Capybara Emphasis on test first development Fully updated for Rails 4 About the Reader For readers of this book a background in Ruby is helpful but not

required No Rails experience is assumed About the Authors Ryan Bigg Yehuda Katz Steve Klabnik and Rebecca Skinner are contributors to Rails and active members of the Rails community Table of Contents Ruby on Rails the framework Testing saves your bacon Developing a real Rails application Oh CRUD Nested resources Authentication Basic access control Fine grained access control File uploading Tracking state Tagging Sending email Deployment Designing an API Rack based applications

Coderspeak Guilherme Orlandini Heurich,2024-04-22 Software applications have taken over our lives We use and are used by software many times a day Nevertheless we know very little about the invisibly ubiquitous workers who write software Who are they and how do they perceive their own practice How does that shape the ways in which they collaborate to build the myriad of apps that we use every day Coderspeak provides a critical approach to the digital transformation of our world through an engaging and thoughtful analysis of the people who write software It is a focused and in depth look at one programming language and its community Ruby based on ethnographic research at a London company and conversations with members of the wider Ruby community in Europe the Americas and Japan This book shows that the place people write code the language they write it in and the stories shared by that community are crucial in questioning and unpacking what it means to be a coder Understanding this social group is essential if we are to grasp a future and a present in which computer programming increasingly dominates our lives Praise for Coderspeak Heurich perfectly captures the generous camaraderie quirky spirit and intellectual curiosity at the heart of the Ruby world Packed with tidbits of Ruby history code snippets and fascinating conversations this book has something to teach every Rubyist Jemma Issroff Ruby Core Team

Practical Object Oriented Analysis + Practical Object Oriented Design Unhelkar,2005-08-01

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