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Polished Ruby Programming

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 featureslearn 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 approachesuse metaprogramming and dsls to reduce the amount of code needed without decreasing maintainabilitybook 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 learnuse ruby s core classes and design custom classes effectivelyexplore the principles behind variable usage and method argument choiceimplement advanced error handling approaches such as exponential backoffdesign extensible libraries and plugin systems in rubyuse metaprogramming and dsls to avoid code redundancyimplement different approaches to testing and understand their trade offsdiscover design patterns refactoring and optimization with rubyexplore database design principles and advanced web app securitywho 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

Understanding Coding with Ruby

2015-12-15

in 1995 computer programmer yukihiro matsumoto introduced ruby programming language to the world he created a language that used his favorite elements of other languages but was more object oriented and easy to use even for coding newbies ruby is also open source software meaning anyone can use modify and distribute it inside this volume readers will learn the ins and outs of coding with ruby including why using blocks of text and mostly plain english text makes it an ideal program for ease of use color photographs sidebars and a graphic organizer make this volume both informational and enjoyable readers interested in stem topics are sure to love this book

The Ruby Way

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 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 rubyhacker com informit com aw informit com ruby rubyhacker com therubyway therubyway io

Mastering Ruby

2026-10-16

follows a hands on approach and offers practical lessons and tutorials related to ruby includes detailed tutorials meant for beginners to ruby explains how to create individual websites using ruby programming

Ruby Best Practices

2009-06-11

how do you write truly elegant code with ruby ruby best practices is for programmers who want to use ruby as experienced rubyists do written by the developer of the ruby project prawn this concise book explains how to design beautiful apis and domain specific languages with ruby as well as how to work with functional programming ideas and techniques that can simplify your code and make you more productive you ll learn how to write code that s readable expressive and much more ruby best practices will help you understand the secret powers unlocked by ruby s code blocks learn how to bend ruby code without breaking it such as mixing in modules on the fly discover the ins and outs of testing and debugging and how to design for testability learn to write faster code by keeping things simple develop strategies for text processing and file management including regular expressions understand how and why things can go wrong reduce cultural barriers by leveraging ruby s multilingual capabilities this book also offers you comprehensive chapters on driving code through tests designing apis and project maintenance learn how to make the most of this rich beautiful language with ruby best practices

The Ruby Workshop

2019-10-30

cut through the noise and get real results with a step by step approach to learning ruby programming key features ideal for the ruby beginner who is getting started with ruby for the first time a complete ruby tutorial with exercises and activities that help build key skills structured to let you progress at your own pace on your own terms use your physical copy to redeem free access to the online interactive edition book description you already know you want to learn ruby and the smarter way to learn ruby 2 x is to learn by doing the ruby workshop focuses on building up your practical skills so that you can kick start your career as a developer and rapidly prototype applications you ll learn from real examples that lead to real results throughout the ruby workshop you ll take an engaging step by step approach to understanding the ruby language you won t have to sit through any unnecessary theory if you re short on time you can jump into a single exercise each day or spend an entire weekend learning about metaprogramming it s your choice learning on your terms you ll build up and reinforce key skills in a way that feels rewarding every physical copy of the ruby workshop unlocks access to the interactive edition with videos detailing all exercises and activities you ll always have a guided solution you can also benchmark yourself against assessments track progress and receive content updates you ll even earn a secure credential that you can share and verify online upon completion it s a premium learning experience that s included with your printed copy to redeem follow the instructions located at the start of your ruby book fast paced and direct the ruby workshop is the ideal companion for ruby beginners you ll build and iterate on your ruby code like a software developer learning along the way this process means that you ll find that your new skills stick embedded as best practice a solid foundation for the years ahead what you will learn get to grips with the fundamentals of ruby object oriented programming understand common ruby patterns to help minimize and easily maintain code explore ways to fetch process and output external data discover ways to work with public apis and create reusable rubygems keep your development process bug free with various testing methods explore how to host applications on cloud application platforms like heroku who this book is for our goal at packt is to help you be successful in whatever it is you choose to do the ruby workshop is an ideal ruby tutorial for the ruby beginner who is just getting started pick up a workshop today and let packt help you develop skills that stick with you for life

The Power of Ruby

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

The Ruby Programming Language

2008-01-25

a guide to ruby programming covers such topics as datatypes and objects expressions classes and modules control structures and the ruby platform

Ruby Programming for Beginners

2020-03-24

those who are efficient in the ruby programming language is very high in demand right now if you are unsure of how to create programs with ruby this book will guide your from step one in a coding project all the way through to the end with the help of this beginners guide you will learn how to program in no time follow along with the book to get the drift on how to use ruby after you master ruby you can move on to ruby on rails which is the framework that goes with ruby soon enough you will become a master programmer using the user friendliest programming language ever developed this will help you to land jobs or even write your own coding for a sweet web application the sky is the limit once you have read practiced and learned the ruby programming language here is what you ll learn about what is ruby programmingcomputer evaluation of ruby codeobjects methodsclasses instancesdata structuresruby collectionssamples of ruby codemuch much more

The The Ruby Workshop

2019-10-31

get to grips with the fundamentals of the ruby programming language and learn how to build your own applications with the help of real world examples and hands on activities key featureslearn the fundamentals of ruby object oriented programming oop use the ruby on rails framework to build interactive web applicationsdiscover how to quickly build complex programs with fewer lines of codebook description the beauty of ruby is its readability and expressiveness ruby hides away a lot of the complexity of programming allowing you to work quickly and do more with fewer lines of code this makes it a great programming language for beginners but learning any new skill can still be a daunting task if you want to learn to code using ruby but don t know where to start the ruby workshop will help you cut through the noise and make sense of this fun flexible language you ll start by writing and running simple code snippets and ruby source code files after learning about strings numbers and booleans you ll see how to store collections of objects with arrays and hashes you ll then learn how to control the flow of a ruby program using boolean logic the book then delves into oop and explains inheritance encapsulation and polymorphism gradually you ll build your knowledge of advanced concepts by learning how to interact with external apis before finally exploring the most popular ruby framework ruby on rails and using it for web development throughout this book you ll work on a series of realistic projects including simple games a voting application and an online blog by the end of this ruby book you ll have the knowledge skills and confidence to creatively tackle your own ambitious projects with ruby what you will learnmaster the syntax and features of ruby to build useful applicationsuse common design patterns to simplify code and improve efficiencyunderstand how to implement object oriented programming with rubyexplore ways to fetch process and output datawork with public apis and create reusable rubygemsdebug code to troubleshoot application behaviorcreate interactive web applications with ruby on railswho this book is for the ruby workshop is designed for anyone who is new to ruby and wants a practical introduction to the language whether you re completely new to programming or have experience in another language and want to broaden your skillset this book will quickly get you up and running

Ruby Beginner's Crash Course

2015-10-21

what is one way to become a skilled in demand programmer start with ruby in the world of programming many types of languages are being used if you are just starting out the first decision that you will have to make is which of these coding tools should you use learning how to code brings upon foreign concepts technical

jargon and many challenges with that being said one needs to be smart in choosing the perfect programming language that they feel would best complement their level of comprehension ruby is a highly recommended programming language that will help you get started why is ruby beneficial to learn and in demand 1 one of the easiest programming languages to learn 2 it has a huge and functional ecosystem 3 it is very flexible to use 4 ruby uses simple naming conventions to indicate extent of variables 5 ruby is loaded with other outstanding features those are just a few advantages to keep you in the loop as you explore more of its benefits by reading ruby beginner s crash course you ll be confident enough to begin exploring this amazing programming language what will you learn in this book what ruby is how to install ruby how to get started how data is structured in ruby how to write a application using ruby on rails buy this book now to quickly learn ruby and open yourself up to a whole new world of possibilities pick up your copy today so we can get started

Comprehensive Ruby Programming

2017-06-30

this book will provide you with all of the tools you need to be a professional ruby developer starting with the core principles such as syntax and best practices and up to advanced topics like metaprogramming and big data analysis about this book provides the core skills required to become a ruby programmer covers how to use the most popular ruby gem libraries includes details on regular expressions who this book is for this is a complete course written from the ground up for beginners wanting to gain a solid understanding of the ruby language it starts at the beginning with how to install ruby and work with it on multiple machines so simply have a computer that s connected to the internet and you ll be ready what you will learn learn how to use ruby code effectively picking the right tool for the job and not duplicating built in functionality gain best software development practices and how to identify and fix common errors absorb core programming skills such as variables strings loops conditionals and much more explore object oriented programming and learn to create modular reusable code that you can use across projects build 10 practical ruby programs as you work through the book on topics such as big data analysis and solving euler equations in detail ruby is a powerful general purpose programming language that can be applied to any task whether you are an experienced developer who wants to learn a new language or you are new to programming this book is your comprehensive ruby coding guide starting with the foundational principles such as syntax and scaling up to advanced topics such as big data analysis this book will give you all of the tools you need to be a professional ruby developer a few of the key topics are object oriented programming built in ruby methods core programming skills and an introduction to the ruby on rails and sinatra web frameworks you will also build 10 practical ruby programs created by an experienced ruby developer this book has been written to ensure it focuses on the skills you will need to be a professional ruby developer after you have read this book you will be ready to start building real world ruby projects style and approach this is a comprehensive course for learning the ruby programming language that works methodically through everything that you need to know it begins with the basics of the language and then works through some complete projects to apply your skills and ensure that you have fully absorbed them and can use them in the real world

The Ruby Way

2010

ruby essentials provides a concise and easy to follow guide to learning ruby everything from installing ruby and the basics of the language through to topics such as arrays file handling and object oriented programming are covered all combined with easy to understand code examples which serve to bridge the gap between theory and practice ruby essentials is designed to be of equal use both to those experienced in other programming languages and to novices who have chosen ruby as their first programming language

Ruby Programming Essentials

2010-09-03

you don t have to know everything about a car to drive one and you don t need to know everything about ruby to start programming with it written for both experienced and new programmers alike learning ruby is a just get in and drive book a hands on tutorial that offers lots of ruby programs and lets you know how and why they work just enough to get you rolling down the road interest in ruby stems from the popularity of rails the web development framework that s attracting new devotees and refugees from java and php but there are plenty of other uses for this versatile language the best way to learn is to just try the code you ll find examples on nearly every page of this book that you can imitate and hack briefly this book outlines many of the most important features of ruby demonstrates how to use conditionals and how to manipulate strings in ruby includes a section on regular expressions describes how to use operators basic math functions from the math module rational numbers etc talks you through ruby arrays and demonstrates hashes in detail explains how to process files with ruby discusses ruby classes and modules mixins in detail including a brief introduction to object oriented programming oop introduces processing xml the tk toolkit rubygems reflection rdoc embedded ruby metaprogramming exception handling and other topics acquaints you with some of the essentials of rails and includes a short rails tutorial each chapter concludes with a set of review questions and appendices provide you with a glossary of terms related to ruby programming plus reference material from the book in one convenient location if you want to take ruby out for a drive learning ruby holds the keys

Learning Ruby

2007-05-14

learning ruby 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 ruby programming 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 teaches you to set up a development environment and write your first program you ll learn about variables math if then statements array hashes loops methods and much more by the end you ll be well on your way to becoming a professional ruby coder build on your skills with practice exercises at the end of each chapter and build a math flashcard game using all the skills you ve learned throughout the book it really is this easy to learn ruby author update c9 the development environment we used in the book was purchased by amazon and is no longer accepting new users unless you sign up through my education account at codemy com c9

Intro To Ruby Programming

2016-05-10

are you ready to learn ruby easily this book aims to guide a complete novice in ruby programming this book is carefully crafted to aid the new or inexperienced programmer in learning to write a code in ruby language if you are someone who somehow developed a fear to explore the unknown and still interested in learning ruby programming then this book can truly help you this book covers everything that a beginner in ruby programming should learn understand that programming offers an infinite amount of information and knowledge however this book understands that it may overwhelm a mere beginner in programming if it tackles even the advanced features of the ruby language this book can help you build a solid basic knowledge in programming that can help you a lot when you begin to write your own program in ruby language you can use the acquired knowledge to pursue or learn more about ruby s advanced concepts later on for now just concentrate on the

basics and make sure to absorb every lesson before you go to the next one practice makes perfect and this book provides a lot of practice programs or exercises that can help you enhance your experience in ruby programming the exercises are simple and easy to understand to help you comprehend the lesson quickly you also need to take note of the error messages that you may encounter let them serve as your guide so you can avoid the same mistake in the future or help you resolve the same error when you encounter them once more learning ruby programming in 7 days is not something impossible to accomplish even a person with a little or no experience with any programming language can learn it within those days as you go through each lesson you will notice that it is quite easy to understand it becomes much simpler when you have patience and discipline understand that you will be able to learn the ruby basics in 7 days but that won t make you an instant expert you still need to practice and work your way in discovering the cool things that you can do with ruby as you go along even expert programmers need to spend ample time in honing their programming skills before you know it you are ready to create a more complex program this book presents everything that a novice may need in understanding the basic ruby programming it is presented in such a way that anyone without prior programming knowledge will find it easy to understand most technical jargons were kept to minimal and they are the terminologies that you will likely encounter once you have started writing your program here s what you ll learn from this ruby for beginners book chapter 1 getting acquainted with ruby chapter 2 initial preparations chapter 3 start with the basics chapter 4 ruby variables chapter 5 all about methods chapter 6 flow control chapter 7 iterators and loops chapter 8 more on arrays and hashes what are you waiting for start coding ruby right now

Ruby for Beginners

2017-05-25

the ruby programming language is perfect for beginners easy to learn powerful and fun to use but wouldn t it be more fun if you were learning with the help of some wizards and dragons ruby wizardry is a playful illustrated tale that will teach you how to program in ruby by taking you on a fantastical journey as you follow the adventures of young heroes ruben and scarlet you ll learn real programming skills like how to use fundamental concepts like variables symbols arrays and strings work with ruby hashes to create a programmable breakfast menu control program flow with loops and conditionals to help the royal plumber test your wild and crazy ideas in irb and save your programs as scripts create a class of mini wizards each with their own superpower organize and reuse your code with methods and lists write your own amazing interactive stories using ruby along the way you ll meet colorful characters from around the kingdom like the hacker queen the off white knight and wherefore the minstrel ruby wizardry will have you or your little wizard hooked on programming in no time for ages 10 and their parents

Ruby Wizardry

2014-12-14

ruby is a powerful programming language with a focus on simplicity but beneath its elegant syntax it performs countless unseen tasks ruby under a microscope gives you a hands on look at ruby s core using extensive diagrams and thorough explanations to show you how ruby is implemented no c skills required author pat shaughnessy takes a scientific approach laying out a series of experiments with ruby code to take you behind the scenes of how programming languages work you ll even find information on jruby and rubinius two alternative implementations of ruby as well as in depth explorations of ruby s garbage collection algorithm ruby under a microscope will teach you how a few computer science concepts underpin ruby s complex implementation how ruby executes your code using a virtual machine how classes and modules are the same inside ruby how ruby employs algorithms originally developed for lisp how ruby uses grammar rules to parse and understand your code how your ruby code is translated into a different language by a compiler no programming language needs to be a black box whether you re already intrigued by

language implementation or just want to dig deeper into ruby you ll find ruby under a microscope a fascinating way to become a better programmer covers ruby 2 x 1 9 and 1 8

Ruby Under a Microscope

2013-11-13

unlock the full potential of the ruby programming language with this comprehensive guide ruby for beginners is the definitive resource for developers who want to build robust scalable and efficient applications using ruby with its elegant syntax and dynamic object oriented approach ruby has become one of the most popular programming languages in the world in this book you ll learn the essential concepts of ruby programming including data types control structures functions and object oriented design patterns you ll also explore advanced ruby topics such as metaprogramming concurrency and web development with ruby on rails with practical examples and hands on exercises you ll develop your skills and gain the confidence to build your own applications in addition the book covers best practices for code quality testing and deployment as well as performance optimization techniques for running ruby applications at scale you ll learn how to leverage the latest tools and frameworks to improve your productivity and streamline your development workflow whether you re a beginner or an experienced developer ruby for beginners is the ultimate guide to taking your ruby programming skills to the next level with this book you ll be able to build high quality applications that meet the demands of modern software development

Ruby for Beginners

2023-02-20

ruby is a powerful programming language with a focus on simplicity but beneath its elegant syntax the language is performing countless unseen tasks ruby under a microscope gives developers an inside hands on look at ruby s core using simple diagrams coupled with clear explanations author pat shaughnessy takes a scientific approach laying out a series of experiments with ruby code to demonstrate how things work shaughnessy s lucid illustrations will serve as a guide for developers writing ruby programs developers of all stripes will find this a fascinating behind the scenes look at how programming languages work

Ruby□□□□

2014

provides information on creating based applications using ruby

Ruby for Rails

2006

the fun way to introduce coding with ruby to kids if you don t have the chance to take coding classes at school or in camp or if you just want to learn on your own ruby

for kids gears you up to expand your technology skills and learn this popular programming language written in a way that s easy to follow and keeping the super tech heavy stuff to a minimum it quickly and easily shows you how to use ruby to create web and mobile applications with no experience required ruby is considered one of the best and simplest languages to start with when you re learning coding this fun and friendly guide makes it even easier broken down into simple projects designed to appeal to younger programmers ruby for kids gets you up and running with core coding concepts in no time before you know it you ll be tackling hands on projects enjoying the support of a vibrant community and feeling a sense of accomplishment as you complete projects navigate the basics of coding with the ruby language use ruby to create your own applications and games find help from other ruby users offers tips for parents and teachers helping kids learn ruby so what are you waiting for ruby for kids has everything you need to get in on one of the most popular topics around

Ruby For Kids For Dummies

2016-01-08

the first hands on practical all ruby refactoring workbook refactoring the art of improving the design of existing code has taken the world by storm so has ruby now for the first time there s a refactoring workbook designed from the ground up for the dynamic ruby language refactoring in ruby gives you all the realistic hands on practice you need to refactor ruby code quickly and effectively you ll discover how to recognize code smells which signal opportunities for improvement and then perfect your program s design one small safe step at a time the book shows you when and how to refactor with both legacy code and during new test driven development and walks you through real world refactoring in detail the workbook concludes with several applications designed to help practice refactoring in realistic domains plus a handy code review checklist you ll refer to again and again along the way you ll learn powerful lessons about designing higher quality ruby software lessons that will enable you to experience the joy of writing consistently great code refactoring in ruby will help you recognize why poor code design occurs so you can prevent it from occurring in your own code master better design techniques that lead to more efficient reliable and maintainable software fix code that s too long large or difficult to follow ferret out duplication and express each idea once and only once recognize missing or inadequately formed classes simplify overly complex relationships between classes and their subclasses achieve the right balance of responsibilities among objects make your code easier to test and change cope with incomplete library modules and fix runaway dependencies learn the next steps to take after you refactor

Refactoring in Ruby

2009-10-15

once again jules j berman provides biomedical researchers and hospital professionals with an introduction to a time saving programming language in this new how to manual berman expertly guides both experienced and inexperienced programmers through the ruby programming language ruby programming for medicine and biology opens with three chapters of ruby language instruction followed by discussions of 100 ruby scripts covering the most common computational tasks in the field of biomedicine with helpful explanations of how scripts work and how they might be implemented in real world situations readers will become familiar with this free open source object oriented programming language that is quickly gaining momentum within the bioinformatics community

Ruby Programming for Medicine and Biology

2008

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

Effective Ruby

2014-09-08

there may be no better way to learn how to program than by dissecting real representative examples written in your language of choice ruby by example analyzes a series of ruby scripts examining how the code works explaining the concepts it illustrates and showing how to modify it to suit your needs baird s examples demonstrate key features of the language such as inheritance encapsulation higher order functions and recursion while simultaneously solving difficult problems such as validating xml creating a bilingual program and creating command line interfaces each chapter builds upon the previous and each key concept is highlighted in the margin to make it easier for you to navigate the book you ll learn how to use the interactive ruby shell irb to learn key features of the language extend ruby using rubygems the ruby package manager create numerical utilities as well as utilities that process and analyze html xml implement purely functional and metaprogramming techniques to save time and effort optimize profile and test your code to make sure that it not only does its job but does it well create web applications using rails ruby is the fastest growing programming language today and for good reason its elegant syntax and readable code make for prolific and happy programmers but it can be difficult to understand and implement without a little help ruby by example shows you how to take advantage of ruby as you explore ruby s fundamental concepts in action

Ruby by Example

2007-06-01

learn the principles behind object oriented programming and within a few chapters create a fully functional ruby application you ll also gain a basic understanding of many ancillary technologies such as databases xml web frameworks and networking some of which are needed as part of a fully functioning ruby application based on the bestselling first and second editions beginning ruby third edition is a leading guide to learn ruby from the ground up the new edition of this book provides the same excellent introduction to ruby as the previous editions plus updates for the newest version of ruby 2 3 this book can also be used as a textbook or companion to a textbook on beginning ruby programming the light and agile ruby programming language remains a very popular open source scripting option for developers building today s web and even some enterprise applications and now ruby also has applications using the raspberry pi popular among hobbyists and makers many

former java developers still use ruby on rails today the most popular framework for building ruby applications what you ll learn discover the fundamentals of ruby and its object oriented building blocks use the ruby libraries gems and documentation work with files and databases write and deploy ruby applications harness the various ruby web frameworks and how to use them do network programming with ruby who this book is for beginning programmers programmers new to ruby and web developers interested in learning and knowing the foundations of the ruby programming language

Beginning Ruby

2016-07-11

this book will provide you with all of the tools you need to be a professional ruby developer starting with the core principles such as syntax and best practices and up to advanced topics like metaprogramming and big data analysis about this book provides the core skills required to become a ruby programmer covers how to use the most popular ruby gem libraries includes details on regular expressionswho this book is forthis is a complete course written from the ground up for beginners wanting to gain a solid understanding of the ruby language it starts at the beginning with how to install ruby and work with it on multiple machines so simply have a computer that s connected to the internet and you ll be ready what you will learn learn how to use ruby code effectively picking the right tool for the job and not duplicating built in functionality gain best software development practices and how to identify and fix common errors absorb core programming skills such as variables strings loops conditionals and much more explore object oriented programming and learn to create modular reusable code that you can use across projects build 10 practical ruby programs as you work through the book on topics such as big data analysis and solving euler equationsin detailruby is a powerful general purpose programming language that can be applied to any task whether you are an experienced developer who wants to learn a new language or you are new to programming this book is your comprehensive ruby coding guide starting with the foundational principles such as syntax and scaling up to advanced topics such as big data analysis this book will give you all of the tools you need to be a professional ruby developer a few of the key topics are object oriented programming built in ruby methods core programming skills and an introduction to the ruby on rails and sinatra web frameworks you will also build 10 practical ruby programs created by an experienced ruby developer this book has been written to ensure it focuses on the skills you will need to be a professional ruby developer after you have read this book you will be ready to start building real world ruby projects style and approachthis is a comprehensive course for learning the ruby programming language that works methodically through everything that you need to know it begins with the basics of the language and then works through some complete projects to apply your skills and ensure that you have fully absorbed them and can use them in the real world

Comprehensive Ruby Programming

2017-06-30

if you know basic high school math you can quickly learn and apply the core concepts of computer science with this concise hands on book led by a team of experts you ll quickly understand the difference between computer science and computer programming and you ll learn how algorithms help you solve computing problems each chapter builds on material introduced earlier in the book so you can master one core building block before moving on to the next you ll explore fundamental topics such as loops arrays objects and classes using the easy to learn ruby programming language then you ll put everything together in the last chapter by programming a simple game of tic tac toe learn how to write algorithms to solve real world problems understand the basics of computer architecture examine the basic tools of a programming language explore sequential conditional and loop programming structures understand how the array data structure organizes storage use searching techniques and comparison based sorting algorithms learn about objects including how to build your own discover how objects can be created from

other objects manipulate files and use their data in your software

Computer Science Programming Basics in Ruby

2013-04-18

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

2018-07-10

ruby is used in some of the world s most popular and user heavy web applications for good reason it s easy to maintain and is designed to be concurrent in this guide nathan metzler skips the fluff and shows you how easy it is to get started with ruby as a beginner and code your own applications with practical examples and exercises

Ruby Programming for Beginners

2020

ruby is a superb programming language used for a variety of activities such as developing desktop applications static websites computational services and even automation systems mastering ruby a beginner s guide is a detailed guide for beginners to understand ruby this book discusses how to structure applications properly and organize code for optimum performance concise and easy to understand this book provides the fundamentals for web programming along with software development and simple app development it covers a variety of topics starting from syntax styles workflow for the command line to creating websites that will quickly advance necessary information the key principles about ruby explained here are helpful to beginners and other users interested in learning this highly technological and diverse language key features follows a hands on approach and offers practical lessons and tutorials related to ruby provides an in depth discussion of ruby design and applications to help build robust knowledge explains how to create individual websites using ruby programming

Mastering Ruby

2023

praise for design patterns in ruby design patterns in ruby documents smart ways to resolve many problems that ruby developers commonly encounter russ olsen has done a great job of selecting classic patterns and augmenting these with newer patterns that have special relevance for ruby he clearly explains each idea making a wealth of experience available to ruby developers for their own daily work steve metsker managing consultant with dominion digital inc this book provides a great demonstration of the key gang of four design patterns without resorting to overly technical explanations written in a precise yet almost informal style this book covers enough ground that even those without prior exposure to design patterns will soon feel confident applying them using ruby olsen has done a great job to make a book about a classically dry subject into such an engaging and even occasionally humorous read peter cooper this book renewed my interest in understanding patterns after a decade of good intentions russ picked the most useful patterns for ruby and introduced them in a straightforward and logical manner going beyond the gof s patterns this book has improved my use of ruby and encouraged me to blow off the dust covering the gof book mike stok design patterns in ruby is a great way for programmers from statically typed objectoriented languages to learn how design patterns appear in a more dynamic flexible language like ruby rob sanheim ruby ninja relevance most design pattern books are based on c and java but ruby is different and the language s unique qualities make design patterns easier to implement and use in this book russ olsen demonstrates how to combine ruby s power and elegance with patterns and write more sophisticated effective software with far fewer lines of code after reviewing the history concepts and goals of design patterns olsen offers a quick tour of the ruby language enough to allow any experienced software developer to immediately utilize patterns with ruby the book especially calls attention to ruby features that simplify the use of patterns including dynamic typing code closures and mixins for easier code reuse fourteen of the classic gang of four patterns are considered from the ruby point of view explaining what problems each pattern solves discussing whether traditional implementations make sense in the ruby environment and introducing ruby specific improvements you ll discover opportunities to implement patterns in just one or two lines of code instead of the endlessly repeated boilerplate that conventional languages often require design patterns in ruby also identifies innovative new patterns that have emerged from the ruby community these include ways to create custom objects with metaprogramming as well as the ambitious rails based convention over configuration pattern designed to help integrate entire applications and frameworks engaging practical and accessible design patterns in ruby will help you build better software while making your ruby programming experience more rewarding

Design Patterns in Ruby

2007-12-10

take the guesswork out of mastering ruby programming language and learn how to build powerful real world and modern applications for the web are you completely new to coding and are looking for a great easy to understand language to learn as your first do you want to become a more productive programmer and skip all the extra keywords declaration and compilation steps that are rife in other languages if your answer is yes to any of the questions above then this book is for you ruby is used in some of the world s most popular and user heavy web applications for good reason it s easy to maintain and is designed to be concurrent in this guide nathan metzler skips the fluff and shows you how easy it is to get started with ruby as a beginner and code your own applications with practical examples and exercises here s a snippet of what you re going to discover in ruby programming for beginners how to install ruby on your preferred operating system from windows and macos to linux step by step instructions to write your very first piece of ruby script and execute on your preferred operating system a comprehensive guide to help you understand core ruby programming concepts from statements and code blocks to identifiers and variable data types a proven framework to get started with object oriented programming and coding modular reusable code you can apply across your projects everything you need to know about control structures in ruby

programming language and tons more ruby is an insanely powerful and multi purpose language that can be used to develop massive web applications whether you re completely new to programming or are an experienced developer in other programming languages but are looking to add ruby to your skillset this guide has you covered

Ruby Way

2015

ruby is an agile object oriented language borrowing some of the best features from lisp smalltalk perl clu and other languages its popularity has grown tremendously in the five years since the first edition of this book the ruby way takes a how to approach to ruby programming with the bulk of the material consisting of more than 400 examples arranged by topic each example answers the question how do i do this in ruby working along with the author you are presented with the task description and a discussion of the technical constraints this is followed by a step by step presentation of one good solution along the way the author provides detailed commentary and explanations to aid your understanding coverage includes an overview of ruby explaining terminology and basic principles operations on low level data types numbers strings regular expressions dates the new regular expression engine oniguruma internationalization i18n and message catalogs in ruby operations on hashes arrays and other data structures such as stacks trees and graphs working with general i o files and persistent objects database coverage including mysql sqlite oracle dbi and more ruby specific techniques in oop and dynamic programming graphical interfaces in ruby tk gtk fox and qt working with ruby threads for lightweight multitasking everyday scripting and system administration in ruby working with image files pdfs yaml xml rss and atom testing debugging profiling and packaging ruby code low level network programming and client server interaction development tools including rails nitro wee iowa and more working with distributed ruby rinda and ring ruby development tools such as ides documentation tools and more the source code for the book can be downloaded from rubyhacker com hal fulton has worked for over 15 years with variousforms of unix including aix solaris and linux he was first exposed to ruby in 1999 and in 2001 he began work on the first edition of this book the second ruby book published in the english language he has attendednumerous ruby conferences and has given presentations at several of those including the first european ruby conference he has two degrees in computer science from the university of mississippi and taught computer science for four years before moving to austin texas to work as a contr

Ruby Programming for Beginners

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the ruby on rails 3 tutorial and reference collection consists of two bestselling rails ebooks ruby on rails 3 tutorial learn rails by example by michael hartl the rails 3 way by obie fernandez in ruby on rails 3 tutorial leading rails developer michael hartl teaches rails 3 by guiding you through the development of your own complete sample application using the latest techniques in rails development drawing on his experience building railsspace insoshi and other sophisticated rails applications hartl illuminates all facets of design and implementation including powerful new techniques that simplify and accelerate development hartl explains how each new technique solves a real world problem and demonstrates this with bite sized code that s simple enough to understand yet novel enough to be useful 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 you learn advanced rails programming techniques that have been proven effective in day to day usage on dozens of production rails systems 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 collection helps youinstall and set up your rails development

environmentgo beyond generated code to truly understand how to build rails applications from scratchlearn test driven development tdd with rspeceffectively use the model view controller mvc pattern structure applications using the rest architecturebuild static pages and transform them into dynamic onesmaster the ruby programming skills all rails developers needdefine high quality site layouts and data modelsimplement registration and authentication systems including validation and secure passwordsupdate display and delete users add social features and microblogging including an introduction to ajaxrecord version changes with git and share code at githubsimplify application deployment with herokulearn what s new in rails 3increase your productivity as a application developerrealize the overall joy in programming with railsleverage rails powerful capabilities for building rest compliant apisdrive implementation and protect long term maintainability using rspecdesign and manipulate your domain layer using active recordunderstand and program complex program flows using action controllermaster sophisticated url routing conceptsuse ajax techniques via rails 3 support for unobtrusive javascriptlearn 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 ownintegrate email services into your applications with action mailerimprove application responsiveness with background processingcreate your own non active record domain classes using active modelmaster rails utility classes and extensions in active support

The Ruby Way

2006

an ideal companion to many introductory computer science courses as well as an excellent primer ruby the programming language offers an accessible introduction to this easy to learn open source language this overview describes the fundamentals of the object oriented ruby language and discusses how students can quickly construct complete web applications with ease ruby the programming language will excite students on the capabilities of computer programming and inspire them to delve deeper into the computer science discipline

The Ruby on Rails 3 Tutorial and Reference Collection

2011-12-05

ruby is a true object oriented programming language that makes the craft of programming easier ruby is a transparent language it doesn t obscure your program behind unnecessary syntax or reams of extra support code guided by the principle of least surprise ruby embodies the values of consistency and simplicity of expression it s more than a programming language it s a concise way of expressing ideas ruby supports natural intelligence yours programming ruby the pragmatic programmer s guide is your complete ruby resource it provides a tutorial and overview of ruby version 1 6 a detailed description of the language s structure syntax and operation a guide to building applications with ruby and a comprehensive library reference book jacket title summary field provided by blackwell north america inc all rights reserved

Ruby

2008-02-14

Programming Ruby

2001