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## Learn To Program: Using Ruby (Facets Of Ruby)

*Provides information on  
creating Web-based  
applications using Ruby.  
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*

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*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*

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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,

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*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-*

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*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](https://www.codemy.com/c9)*

*Why spend time on coding problems that others have already solved when you could be making real progress on your Ruby project? This updated cookbook provides more than 350 recipes for solving common problems, on topics ranging from basic data structures, classes, and objects, to web development, distributed programming, and multithreading. Revised for Ruby 2.1, each recipe includes a discussion on why and how the solution works.*

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*The House in the Mist*

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*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*

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- Work with Ruby hashes to create a programmable breakfast menu*
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*course covers all bases! Ruby is a language released by Yukihiro Matsumoto in 1995 that bills itself as 'a programmer's best friend'. Every aspect of Ruby is designed to make programming easier for the developer. There is no better first language if you're interested in learning how to program. Ruby also serves as the foundation for Ruby on Rails, a popular web framework that powers over 1.2 million websites worldwide. The*

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*your first Ruby application. Based on the bestselling first and second editions, Beginning Ruby 3, 4th 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, including performance through an improved allocator, decreased heap fragmentation and more.*

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*Also, added: details on the just-in-time compiler, fewer limits on GIL (Global Interpreter Lock), and a static type checker. You'll see why the light and agile Ruby programming language remains a popular open source scripting option for developers building today's web applications. This book can also be used as a textbook or companion to a textbook on beginning Ruby programming. After reading and using this*

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*book, you'll have a firm handle to program in the Ruby language. What You Will 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 use them effectively Do network programming with Ruby Who This Book Is For Beginning programmers, programmers new to Ruby,*

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*and web developers interested in learning the foundations of the Ruby programming language.*

*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*

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*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.*



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*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*

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*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*

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*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.*

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them. Type their code precisely. (No copying and pasting!) Fix your mistakes. Watch the programs run. As you do, you'll learn how software works; what good programs look like; how to read, write, and think about code; and how to find and fix your mistakes using tricks professional programmers use. Most importantly, you'll learn the following, which you need to start writing excellent Ruby software of your own:

- Installing your Ruby environment
- Organizing and writing code
- Ruby symbols and keywords
- Basic mathematics
- Variables and printing
- Strings and text
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Coding experts point to Ruby as one of the best languages to start with when you're learning coding. It's been a popular choice for schools and code camps who want to introduce coding to a younger audience.

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classes at school or in camp as well as those who simply prefer to learn on their own. Broken down into smaller, goal-oriented projects, *Ruby For Kids For Dummies* introduces core coding concepts as it walks the student through steps for creating applications. The book is ideal for early-to-pre-teen learners interested in expanding their technology skills as well as younger readers eager to learn via step-by-step instruction. 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

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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

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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

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***maintainability Learn Ruby web application design principles and strategies for databases, security, and testing Book Description Most successful Ruby applications become difficult to maintain over time as the codebase grows in size. Polished Ruby Programming provides you with recommendations and advice for designing Ruby programs that are easy to maintain in the long term. This book takes you through implementation approaches for many common programming situations, the trade-offs inherent in each approach, and why you may choose to use different***

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***approaches in different situations. You'll start by learning fundamental Ruby programming principles, such as correctly using core classes, class and method design, variable usage, error handling, and code formatting. Moving on, you'll learn 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***



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***programming book, you'll have gained the skills you need to design robust, high-performance, scalable, and maintainable Ruby applications. 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***

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***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 If you already know how to program in Ruby and want to learn more about the principles and best practices behind writing maintainable, scalable, optimized, and well-structured Ruby code, then this Ruby book is for you. Intermediate to advanced-level working knowledge of the Ruby***

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***programming language is expected to get the most out of this book.***

***It's easy to write correct Ruby code, but to gain the fluency needed to write great Ruby code, you must go beyond syntax and absorb the "Ruby way" of thinking and problem solving. In Eloquent Ruby, Russ Olsen helps you write Ruby like true Rubyists do—so you can leverage its immense, surprising power. Olsen draws on years of experience internalizing the Ruby culture and teaching Ruby to other programmers. He guides you to the "Ah Ha!" moments when it suddenly becomes clear why Ruby works the way it does,***

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***and how you can take advantage of this language's elegance and expressiveness. Eloquent Ruby starts small, answering tactical questions focused on a single statement, method, test, or bug. You'll learn how to write code that actually looks like Ruby (not Java or C#); why Ruby has so many control structures; how to use strings, expressions, and symbols; and what dynamic typing is really good for. Next, the book addresses bigger questions related to building methods and classes. You'll discover why Ruby classes contain so many tiny methods, when to use operator overloading, and when to avoid***

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***it. Olsen explains how to write Ruby code that writes its own code—and why you'll want to. He concludes with powerful project-level features and techniques ranging from gems to Domain Specific Languages. A part of the renowned Addison-Wesley Professional Ruby Series, Eloquent Ruby will help you “put on your Ruby-colored glasses” and get results that make you a true believer.***

***Ruby is famous for being easy to learn, but most users only scratch the surface of what it can do. While other books focus on Ruby's trendier features, The Book of Ruby reveals the secret inner workings of one of the***

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***world's most popular programming languages, teaching you to write clear, maintainable code. You'll start with the basics—types, data structures, and control flows—and progress to advanced features like blocks, mixins, metaclasses, and beyond. Rather than bog you down with a lot of theory, The Book of Ruby takes a hands-on approach and focuses on making you productive from day one. As you follow along, you'll learn to:***

- Leverage Ruby's succinct and flexible syntax to maximize your productivity***
- Balance Ruby's functional, imperative, and object-oriented features***
- Write self-***

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***modifying programs using  
dynamic programming  
techniques –Create new fibers  
and threads to manage  
independent processes  
concurrently –Catch and recover  
from execution errors with  
robust exception handling  
–Develop powerful web  
applications with the Ruby on  
Rails framework Each chapter  
includes a "Digging Deeper"  
section that shows you how  
Ruby works under the hood, so  
you'll never be caught off guard  
by its deceptively simple  
scoping, multithreading features,  
or precedence rules. Whether  
you're new to programming or  
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***separate Define flexible***

***interfaces among objects***

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and regexp-based string operations File  
and I/O operations PART 3 RUBY

DYNAMICS Object individuation  
Callable and runnable objects Callbacks,  
hooks, and runtime introspection Ruby  
and functional programming

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