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NumPy Beginner's Guide (Second Edition) Addison-Wesley Professional
The best-selling Python book in the world, with over 1 million copies sold! A fast-paced, no-nonsense, updated guide to programming in Python. If you've been thinking about learning how to code or picking up Python, this internationally bestselling guide to the most popular programming language is your quickest, easiest way to get started and go! Even if you have no experience whatsoever, *Python Crash Course, 2nd Edition*, will have you writing programs, solving problems, building computer games, and creating data visualizations in no time. You'll begin with basic

concepts like variables, lists, classes, and loops—with the help of fun skill-strengthening exercises for every topic—then move on to making interactive programs and best practices for testing your code. Later chapters put your new knowledge into play with three cool projects: a 2D Space Invaders-style arcade game, a set of responsive data visualizations you'll build with Python's handy libraries (Pygame, Matplotlib, Plotly, Django), and a customized web app you can deploy online. Why wait any longer? Start your engine and code!

Beginning Ruby Pearson Education

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 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-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 just new Ruby, *The Book of Ruby* is your guide to rapid, real-world software development with this unique and elegant language.

Ruby Pocket Reference Addison-Wesley Professional

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!)

[Ultralearning](#) Independently Published

Learn to build Rails-based web applications using all the latest features offered in Rails 5.2. Author Stefan Wintermeyer begins by teaching the basics of Ruby 2.5 before proceeding through all aspects of Rails, utilizing clean, succinct examples – rather than a single large application. This book covers topics including Active Storage, Credentials, Active Record, Scaffolding, REST, Routing, Bundler, Forms, Cookies, and Sessions, all of which are vital for modern Rails web applications. To complement these topics you'll also learn about test-driven development, Action Cable, Active Job, Action Mailer, I18n, Asset Pipeline, and caching. Finally, you'll see a how-to for a production web server with nginx. This complete set of skills will set you up for a future of efficient and elegant Rails coding. What You Will Learn Use the Ruby on Rails web development framework Install and manage the Rails framework Persist data for your web application with Active Record Work with forms Apply a test-driven development approach to your Rails-based web applications Discover many Rails secrets and tips Who This Book Is For Those with at least some prior programming experience. Ruby experience is helpful, but not required.

[Learn to Program](#) Pragmatic Bookshelf

Get a comprehensive, in-depth introduction to the core Python language with this hands-on book. Based on author Mark Lutz's popular training course, this updated fifth edition will help you quickly write efficient, high-quality code with Python. It's an ideal way to begin, whether you're new to programming or a professional developer versed in other languages. Complete with quizzes, exercises, and helpful illustrations, this easy-to-follow, self-paced tutorial gets you started with both Python 2.7 and 3.3— the latest releases in the 3.X and 2.X lines—plus all other releases in common use today. You'll also learn some advanced language features that recently have become more common in Python code. Explore Python's major built-in object types such as numbers, lists, and dictionaries Create and process objects with Python statements, and learn Python's general syntax model Use functions to avoid code redundancy and package code for reuse Organize statements, functions, and other tools into larger components with modules Dive into classes: Python's object-oriented programming tool for structuring code Write large programs with Python's exception-handling model and development tools Learn advanced Python tools, including decorators, descriptors, metaclasses, and Unicode processing

[Programming with C++20](#) Pearson Education

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

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

[Eloquent Ruby](#) No Starch Press

You don't have to accept slow Ruby or Rails performance. In this comprehensive guide to Ruby optimization, you'll learn how to write faster Ruby code—but that's just the beginning. See exactly what makes Ruby and Rails code slow, and how to fix it. Alex Dymo will guide you through perils of memory and CPU optimization, profiling, measuring, performance testing, garbage collection, and tuning. You'll find that all those "hard" things aren't so difficult after all, and your code will run orders of magnitude faster. This is the first book ever that consolidates all the Ruby performance optimization advice in one place. It's your comprehensive guide to memory optimization, CPU optimization, garbage collector tuning, profiling, measurements, performance testing, and more. You'll go from performance rookie to expert. First, you'll learn the best practices for writing Ruby code that's easy not only on the CPU, but also on memory, and that doesn't trigger the dreaded garbage collector. You'll find out that garbage collection accounts for 80% of slowdowns, and often takes more than 50% of your program's execution time. And you'll discover the bottlenecks in Rails code and learn how selective attribute loading and preloading can mitigate the performance costs of ActiveRecord. As you advance to Ruby performance expert, you'll learn how profile your code, how to make sense out of profiler reports, and how to make optimization decisions based on them. You'll make sure slow code doesn't creep back into your Ruby application by writing performance tests, and you'll learn the right way to benchmark Ruby. And finally, you'll dive into the Ruby interpreter internals to really understand why garbage collection makes Ruby so slow, and how you can tune it up. What You Need: Some version of Ruby. The advice from this book applies to all modern Ruby versions from 1.9 to 2.2. 80% of the material will also be useful for legacy Ruby 1.8 users, and there is 1.8-specific advice as well.

[Head First Rails](#) No Starch Press

Master Python and become a programmer - even if you never thought you could. This breakthrough book and CD can help practically anyone get started in programming. Zed A. Shaw teaches the Python programming language through a series of 52 brilliantly-crafted exercises.

[Python Programming](#) Pearson Education

The official book on the Rust programming language, written by the Rust development team at the Mozilla Foundation, fully updated for Rust 2018. The Rust Programming Language is the official book on Rust: an open source systems programming language that helps you write faster, more reliable software. Rust offers control over low-level details (such as memory usage) in combination with high-level ergonomics, eliminating the hassle traditionally associated with low-level languages. The authors of The Rust Programming Language, members of the Rust Core Team, share their knowledge and experience to show you how to take full advantage of Rust's features--from installation to creating robust and scalable programs. You'll begin with basics like creating functions, choosing data types, and binding variables and then move on to more advanced concepts, such as: Ownership and borrowing, lifetimes, and traits Using Rust's memory safety guarantees to build fast, safe programs Testing, error handling, and effective refactoring Generics, smart pointers, multithreading, trait objects, and advanced pattern matching Using Cargo, Rust's built-in package manager, to build, test, and document your code and manage dependencies How best to use Rust's advanced compiler with compiler-led programming techniques You'll find plenty of code examples throughout the book, as well as three chapters dedicated to building complete projects to test your learning: a number guessing game, a Rust implementation of a command line tool, and a multithreaded server. New to this edition: An extended section on Rust macros, an expanded chapter on modules, and appendixes on Rust development tools and editions.

[Ruby on Rails 5.0 for Autodidacts](#) Addison-Wesley Professional

A tutorial and reference to the object-oriented programming language for beginning to

experienced programmers, updated for version 1.8, describes the language's structure, syntax, and operation, and explains how to build applications. Original. (Intermediate)

[Python Cookbook](#) "O'Reilly Media, Inc."

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

[Learn Ruby the Hard Way](#) Apress

Updated for Ruby 2.2, this handy reference offers brief yet clear explanations of Ruby's core elements--from operators to blocks to documentation creation--and highlights the key features you may work with every day. Need to know the correct syntax for a conditional? Forgot the name of that String method? This book is organized to help you find the facts fast. Ruby Pocket Reference, 2nd Edition is ideal for experienced programmers who are new to Ruby. Whether you've come to Ruby because of Rails, or you want to take advantage of this clean, powerful, and expressive language for other applications, this reference will help you easily pinpoint the information you need. You'll find detailed reference material for: Keywords, operators, comments, numbers, and symbols Variables, pre-defined global variables, and regular expressions Conditional statements, method use, classes, and exception handling Methods for the BasicObject, Object, Kernel, String, Array, and Hash classes Time formatting directives New syntax since Ruby 1.9

[The Book of Ruby](#) Packt Publishing Ltd

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.

Glucose Revolution "O'Reilly Media, Inc."

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

RESTful Web APIs Apress

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

The Rails 3 Way Pearson Education

The popularity of REST in recent years has led to tremendous growth in almost-RESTful APIs that don't include many of the architecture's benefits. With this practical guide, you'll learn what it takes to design usable REST APIs that evolve over time. By focusing on solutions that cross a

variety of domains, this book shows you how to create powerful and secure applications, using the tools designed for the world's most successful distributed computing system: the World Wide Web. You'll explore the concepts behind REST, learn different strategies for creating hypermedia-based APIs, and then put everything together with a step-by-step guide to designing a RESTful Web API. Examine API design strategies, including the collection pattern and pure hypermedia Understand how hypermedia ties representations together into a coherent API Discover how XMDP and ALPS profile formats can help you meet the Web API "semantic challenge" Learn close to two-dozen standardized hypermedia data formats Apply best practices for using HTTP in API implementations Create Web APIs with the JSON-LD standard and other the Linked Data approaches Understand the CoAP protocol for using REST in embedded systems

The Rails Way Addison-Wesley Professional

Paolo Perrotta has fifteen years of experience as a developer, ranging from embedded to enterprise software, computer games, and web applications. Paolo lives a nomadic life, mentoring agile teams throughout Europe. He has a base camp in Bologna, Italy. He loves Ruby.

Learning Python Anthony Adams

This book concentrates on application development as a whole process and is intended to complement existing Rails tutorials. Each chapter deals with a key feature or functional area of a complex, full-scale Rails application. This book is aimed at developers who want to find out how to rapidly build easily-deployed, easily-supported business applications. It is for developers who have learned Ruby on Rails, probably from one of the tutorial books, and want to apply that knowledge to effectively build full, realistic applications.

Clojure for the Brave and True Simon and Schuster

✓✓✓ Why you have to buy this book and what can you expect to learn? ✓✓✓ The goal of this book is to master your Python programming skills and to get out-of-box knowledge as well. The modern key concepts along with the advanced portion of Python programming language can easily build mastery and expertise. From example practices to advanced tasks, learn how the conditional statements and different variety functions can work out and make difference to choose which functions and statements you should use in your program. Also, learn to draw structures and designs by encoding a program with interesting codes. It makes a program interactive when it is asked for user input, as well as, use types of lists and classes in many different ways to program lengthy codes into simpler and shorter lines. Get to know about the most popular Python frameworks, are introduced and described briefly to make application development easier and more efficient. A brief comparison of Python language with other programming languages can help you choose the right language. Furthermore, find how the Python language is following the uptrend in today's market and breaking the traditional market of other programming languages. Find how Python programming language is the most sought and necessary requirement for jobs. Readers will get surprised why Python is the best of choice of today's programmers and is the industry trend. Most startups and growing businesses online are using Python language to program their

websites and applications. The reason behind the popularity of Python programming language is due to its features and added functionalities from old versions to updated ones. Get to know about the evolution of Python language from version to version, and decide which version is best for your project or any simple task. Who is this book for? This book is designed for programmers to learn more about Python language and master programming skills while developing a foundation that will serve them for the rest of life. Programmers of any age either beginners or experienced ones can benefit from this book. Furthermore, programmers can come up with new concepts which are briefly described in this book on advanced level especially the condition statements and functions. Programmers are encouraged to use the knowledge, after reading this book, for general purposes or in any relevant programming project. Programmers would be able enough to get hands-on interesting projects or any programming task assigned by teachers, using the key concepts of modern programming techniques.

Learn Python 3 the Hard Way Createspace Independent Publishing Platform

The “Bible” for Rails Development: Now Fully Updated for Rails 4.1 “When I read *The Rails Way* for the first time, I felt like I truly understood Rails for the first time.” —From the Foreword by Steve Klabnik Ruby on Rails 4 is leaner, tighter, and even more valuable to professional web developers. More than ever, it helps you focus on what matters most: delivering business value via clean and maintainable code. The RailsTM 4 Way is the only comprehensive, authoritative guide to delivering production-quality code with Rails 4. Kevin Faustino joins pioneering Rails developer Obie Fernandez to illuminate the entire Rails 4 API, including its most powerful and modern idioms, design approaches, and libraries. They present extensive new and updated content on security, performance, caching, Haml, RSpec, Ajax, the Asset Pipeline, and more. Through detailed code examples, you'll dive deep into the Rails 4 code base, discover why Rails is designed as it is, and learn how to make it do exactly what you want. Proven in dozens of production systems, this book's techniques will maximize your productivity and help you build more successful solutions. You'll want to keep this guide by your computer—you'll refer to it constantly. This guide will help you Build powerful, scalable REST-compliant APIs Program complex program flows using Action Controller Represent models, relationships, CRUD operations, searches, validation, callbacks, and more Smoothly evolve application database schema via Migrations Apply advanced Active Record techniques: single-table inheritance, polymorphic models, and more Create visual elements with Action View and partials Optimize performance and scalability with view caching Master the highly productive Haml HTML templating engine Make the most of Rails' approach to session management Secure your systems with Rails 4's improved authentication and authorization Resist SQL Injection, XSS, XSRF, and other attacks Extend Rails with popular gems and plugins, and learn to write your own Integrate email services with Action Mailer Use Ajax via Rails 4 support for unobtrusive JavaScript Improve responsiveness with background processing Leverage Asset Pipeline to simplify development, improve perceived performance, and reduce server burdens Accelerate implementation and promote maintainability with RSpec

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