

Intermediate Perl Beyond The Basics Of Learning Perl

Want to learn how to program and think like a computer scientist? This practical guide gets you started on your programming journey with the help of Perl 6, the younger sister of the popular Perl programming language. Ideal for beginners, this hands-on book includes over 100 exercises with multiple solutions, and more than 1,000 code examples so you can quickly practice what you learn.

Experienced programmers—especially those who know Perl 5—will also benefit. Divided into two parts, Think Perl 6 starts with basic concepts that every programmer needs to know, and then focuses on different programming paradigms and some more advanced programming techniques. With two semesters' worth of lessons, this book is the perfect teaching tool for computer science beginners in colleges and universities. Learn basic concepts including variables, expressions, statements, functions, conditionals, recursion, and loops Understand commonly used basic data structures and the most useful algorithms Dive into object-oriented programming, and learn how to construct your own types and methods to extend the language Use grammars and regular expressions to analyze textual content Explore how functional programming can help you make your code simpler and more expressive

Learn key topics such as language basics, pointers and pointer arithmetic, dynamic memory management, multithreading, and network programming. Learn how to use the compiler, the make tool, and the archiver.

Covers advanced features of Perl, how the Perl interpreter works, and presents areas of modern computing technology such as networking, user interfaces, persistence, and code generation.

If you're ready to get started with Raku (formerly Perl 6), this is the book you want, whether you're a programmer, system administrator, or web hacker. Raku is a new language—a modern reinvention of Perl suitable for almost any task, from short fixes to complete web applications. This hands-on tutorial gets you started. Author brian d foy (Mastering Perl) provides a sophisticated introduction to this new programming language. Each chapter in this guide contains exercises to help you practice what you learn as you learn it. Other books may teach you to program in Raku, but this book will turn you into a Raku programmer. Learn how to work with: Numbers, strings, blocks, and positionals Files and directories and input/output Associatives, subroutines, classes, and roles Junctions and sets Regular expressions and built-in grammars Concurrency features: Promises, supplies, and channels Controlling external programs and other advanced features

* The first book focused solely on data parsing, a task commonly deemed Perl's greatest strength * Couples an introduction to data parsing concepts and techniques with practical instruction regarding the key Perl modules capable of

facilitating often complex parsing tasks * The author, Christopher Frenz, is a bioinformaticist and expert on Perl and scientific computing

If you want to build your site's frontend with the single-page application (SPA) model, this hands-on book shows you how to get the job done with Backbone.js. You'll learn how to create structured JavaScript applications, using Backbone's own flavor of model-view-controller (MVC) architecture. Start with the basics of MVC, SPA, and Backbone, then get your hands dirty building sample applications—a simple Todo list app, a RESTful book library app, and a modular app with Backbone and RequireJS. Author Addy Osmani, an engineer for Google's Chrome team, also demonstrates advanced uses of the framework. Learn how Backbone.js brings MVC benefits to the client-side Write code that can be easily read, structured, and extended Work with the Backbone.Marionette and Thorax extension frameworks Solve common problems you'll encounter when using Backbone.js Organize your code into modules with AMD and RequireJS Paginate data for your Collections with the Backbone.Paginator plugin Bootstrap a new Backbone.js application with boilerplate code Use Backbone with jQuery Mobile and resolve routing problems between the two Unit-test your Backbone apps with Jasmine, QUnit, and SinonJS

Discover or Revisit One of the Most Popular Books in Computing This landmark 1971 classic is reprinted with a new preface, chapter-by-chapter commentary, and straight-from-the-heart observations on topics that affect the professional life of programmers. Long regarded as one of the first books to pioneer a people-oriented approach to computing, *The Psychology of Computer Programming* endures as a penetrating analysis of the intelligence, skill, teamwork, and problem-solving power of the computer programmer. Finding the chapters strikingly relevant to today's issues in programming, Gerald M. Weinberg adds new insights and highlights the similarities and differences between now and then. Using a conversational style that invites the reader to join him, Weinberg reunites with some of his most insightful writings on the human side of software engineering. Topics include egoless programming, intelligence, psychological measurement, personality factors, motivation, training, social problems on large projects, problem-solving ability, programming language design, team formation, the programming environment, and much more. Dorset House Publishing is proud to make this important text available to new generations of programmers--and to encourage readers of the first edition to return to its valuable lessons.

Covers basic and advanced applications of Perl/Tk, discussing topics including basic Perl/Tk widgets and geometry managers, how to use callbacks and bindings effectively, working with images, and developing a Tk widget in C. Part of the fun of programming in Perl lies in tackling tedious tasks with short, efficient, and reusable code. Often, the perfect tool is the one-liner, a small but powerful program that fits in one line of code and does one thing really well. In *Perl One-Liners*, author and impatient hacker Peteris Kruminis takes you through more than 100 compelling one-liners that do all

sorts of handy things, such as manipulate line spacing, tally column values in a table, and get a list of users on a system. This cookbook of useful, customizable, and fun scripts will even help hone your Perl coding skills, as Krumins dissects the code to give you a deeper understanding of the language. You'll find one-liners that: * Encode, decode, and convert strings * Generate random passwords * Calculate sums, factorials, and the mathematical constants π and e * Add or remove spaces * Number lines in a file * Print lines that match a specific pattern * Check to see if a number is prime with a regular expression * Convert IP address to decimal form * Replace one string with another And many more! Save time and sharpen your coding skills as you learn to conquer those pesky tasks in a few precisely placed keystrokes with Perl One-Liners.

A revision of Quigley's popular introductory programming book, updated to reflect Perl's continuing evolution.

Find a Perl programmer, and you'll find a copy of Perl Cookbook nearby. Perl Cookbook is a comprehensive collection of problems, solutions, and practical examples for anyone programming in Perl. The book contains hundreds of rigorously reviewed Perl "recipes" and thousands of examples ranging from brief one-liners to complete applications. The second edition of Perl Cookbook has been fully updated for Perl 5.8, with extensive changes for Unicode support, I/O layers, `mod_perl`, and new technologies that have emerged since the previous edition of the book. Recipes have been updated to include the latest modules. New recipes have been added to every chapter of the book, and some chapters have almost doubled in size. Covered topic areas include: Manipulating strings, numbers, dates, arrays, and hashes Pattern matching and text substitutions References, data structures, objects, and classes Signals and exceptions Screen addressing, menus, and graphical applications Managing other processes Writing secure scripts Client-server programming Internet applications programming with mail, news, ftp, and telnet CGI and `mod_perl` programming Web programming Since its first release in 1998, Perl Cookbook has earned its place in the libraries of serious Perl users of all levels of expertise by providing practical answers, code examples, and mini-tutorials addressing the challenges that programmers face. Now the second edition of this bestselling book is ready to earn its place among the ranks of favorite Perl books as well. Whether you're a novice or veteran Perl programmer, you'll find Perl Cookbook, 2nd Edition to be one of the most useful books on Perl available. Its comfortable discussion style and accurate attention to detail cover just about any topic you'd want to know about. You can get by without having this book in your library, but once you've tried a few of the recipes, you won't want to.

Sams Teach Yourself HTML, CSS and JavaScript All in One The all-in-one HTML, CSS and JavaScript beginner's guide: covering the three most important languages for web development. Covers everything beginners need to know about the HTML and CSS standards and today's JavaScript and Ajax libraries - all in one book, for the first time Integrated, well-organized coverage expertly shows how to use all these key technologies together Short, simple lessons teach hands-on skills readers can apply immediately By best-selling author Julie Meloni Mastering HTML, CSS, and JavaScript is vital for any beginning web developer - and the importance of these technologies is growing as web development moves away from proprietary alternatives such as Flash. Sams Teach Yourself HTML, CSS, and JavaScript All in One brings together everything beginners need to build powerful web applications with the HTML and CSS standards and the latest JavaScript and Ajax libraries. With this book, beginners can get all the modern web development knowledge you need from one expert source. Bestselling author Julie Meloni (Sams Teach Yourself PHP, MySQL and Apache All in One) teaches simply and clearly, through brief, hands-on lessons focused on knowledge you can apply immediately. Meloni covers all the building blocks of practical web design and development, integrating new techniques and features into every chapter. Each lesson builds

on what's come before, showing you exactly how to use HTML, CSS, and JavaScript together to create great web sites.

"It's easy to start writing code with Python: that's why the language is so immensely popular. However, Python has unique strengths, charms, and expressivity that can be hard to grasp at first -- as well as hidden pitfalls that can easily trip you up if you aren't aware of them. Effective Python will help you harness the full power of Python to write exceptionally robust, efficient, maintainable, and well-performing code. Utilizing the concise, scenario-driven style pioneered in Scott Meyers's best-selling Effective C++, Brett Slatkin brings together 53 Python best practices, tips, shortcuts, and realistic code examples from expert programmers. Through realistic examples, Slatkin uncovers little-known Python quirks, intricacies, and idioms that powerfully impact code behavior and performance. You'll learn how to choose the most efficient and effective way to accomplish key tasks when multiple options exist, and how to write code that's easier to understand, maintain, and improve. Drawing on his deep understanding of Python's capabilities, Slatkin offers practical advice for each major area of development with both Python 3.x and Python 2.x. Coverage includes: * Algorithms * Objects * Concurrency * Collaboration * Built-in modules * Production techniques * And more Each section contains specific, actionable guidelines organized into items, each with carefully worded advice supported by detailed technical arguments and illuminating examples. Using Effective Python, you can systematically improve all the Python code you write: not by blindly following rules or mimicking incomprehensible idioms, but by gaining a deep understanding of the technical reasons why they make sense."--[Source inconnue].

"Practical solutions for rapid Web services development"--Cover.

Shows how to write, debug, and run a Perl program, describes CGI scripting and data manipulation, and describes scalar values, basic operators, and associative arrays.

A text focusing on the methods and alternatives for designed TCP/IP-based client/server systems and advanced techniques for specialized applications with Perl. A guide examining a collection of the best third party modules in the Comprehensive Perl Archive Network. Topics covered: Perl function libraries and techniques that allow programs to interact with resources over a network. IO: Socket library ; Net: FTP library -- Telnet library -- SMTP library ; Chat problems ; Internet Message Access Protocol (IMAP) issues ; Markup-language parsing ; Internet Protocol (IP) broadcasting and multicasting.

Introduces regular expressions and how they are used, discussing topics including metacharacters, nomenclature, matching and modifying text, expression processing, benchmarking, optimizations, and loops.

This fully updated edition of the bestselling "Perl Core Language Little Black Book" is one of the most practical and concise guides available for Perl programmers. It includes hundreds of highly useful solutions on programming with Perl, using object-oriented features, and integrating Perl with XML.

Intermediate Perl"O'Reilly Media, Inc."

Presents guidelines on the art of coding with Perl, covering such topics as references and scoping, manipulating complex data structures, objects, testing, Exporter, Moose, and CPAN.

Reviews the programming language and covers topics including inheritance, polymorphism, Class::Struct and Class::Methodmaker modules, Perl ties and closures, operator overloading, encapsulation, and multiple dispatch.

The Book of R is a comprehensive, beginner-friendly guide to R, the world's most popular programming language for statistical analysis. Even if you have no

programming experience and little more than a grounding in the basics of mathematics, you'll find everything you need to begin using R effectively for statistical analysis. You'll start with the basics, like how to handle data and write simple programs, before moving on to more advanced topics, like producing statistical summaries of your data and performing statistical tests and modeling. You'll even learn how to create impressive data visualizations with R's basic graphics tools and contributed packages, like ggplot2 and ggvis, as well as interactive 3D visualizations using the rgl package. Dozens of hands-on exercises (with downloadable solutions) take you from theory to practice, as you learn:

- The fundamentals of programming in R, including how to write data frames, create functions, and use variables, statements, and loops
- Statistical concepts like exploratory data analysis, probabilities, hypothesis tests, and regression modeling, and how to execute them in R
- How to access R's thousands of functions, libraries, and data sets
- How to draw valid and useful conclusions from your data
- How to create publication-quality graphics of your results

Combining detailed explanations with real-world examples and exercises, this book will provide you with a solid understanding of both statistics and the depth of R's functionality. Make *The Book of R* your doorway into the growing world of data analysis.

This book aims to give existing Perl programmers more detailed knowledge of some of the more advanced elements of the language.

Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing

Learn basic and advanced features in NumPy (Numerical Python)

Get started with data analysis tools in the pandas library

Use flexible tools to load, clean, transform, merge, and reshape data

Create informative visualizations with matplotlib

Apply the pandas groupby facility to slice, dice, and summarize datasets

Analyze and manipulate regular and irregular time series data

Learn how to solve real-world data analysis problems with thorough, detailed examples

The Perl Pocket Reference is an invaluable reference for those who find themselves frequently searching for a quick answer to a question or reminder of a syntax rule. This handy, well-organized quick reference condenses stacks of Perl documentation down to the most essential at-your-fingertips facts. For ease-of-use, convenience, and price, this little reference is the first place Perl programmers look when they need an answer quickly. The Perl Pocket Reference provides a complete overview of the Perl

programming language, all packed into a convenient, carry-around booklet. It is updated for Perl 5.8, and covers a summary of Perl syntax rules, a complete list of operators, built-in functions, and standard library modules, all with brief descriptions. Also included are the newest Perl features, such as enhanced regular expressions, multithreading, the Perl compiler, and Unicode support. The Perl Pocket Reference, 4th Edition, is the perfect companion to the authoritative books on Perl published by O'Reilly & Associates: Programming Perl, Learning Perl, and the Perl Cookbook. This pocket reference will never make it to the bookshelf--dog-eared and well worn, it will remain within arms reach of the keyboard or tucked in a back pocket, where it will be referred to on a daily basis.

R is the world's most popular language for developing statistical software:

Archaeologists use it to track the spread of ancient civilizations, drug companies use it to discover which medications are safe and effective, and actuaries use it to assess financial risks and keep economies running smoothly. The Art of R Programming takes you on a guided tour of software development with R, from basic types and data structures to advanced topics like closures, recursion, and anonymous functions. No statistical knowledge is required, and your programming skills can range from hobbyist to pro. Along the way, you'll learn about functional and object-oriented programming, running mathematical simulations, and rearranging complex data into simpler, more useful formats. You'll also learn to:

- Create artful graphs to visualize complex data sets and functions
- Write more efficient code using parallel R and vectorization
- Interface R with C/C++ and Python for increased speed or functionality
- Find new R packages for text analysis, image manipulation, and more
- Squash annoying bugs with advanced debugging techniques

Whether you're designing aircraft, forecasting the weather, or you just need to tame your data, The Art of R Programming is your guide to harnessing the power of statistical computing.

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

This book picks up right where Learning Perl leaves off. With Intermediate Perl, you'll graduate from short scripts to much larger programs, using features that make Perl a general-purpose language. This gentle but thorough guide introduces you to modules, complex data structures, and object-oriented programming. Each chapter is small enough to be read in just an hour or two, ending with exercises to help you practice

what you've learned. If you're familiar with the material in Learning Perl and have the ambition to go further, Intermediate Perl will teach you most of the core Perl language concepts you need for writing robust programs on any platform. Topics include: Packages and namespaces References and scoping, including regular expression references Manipulating complex data structures Object-oriented programming Writing and using modules Testing Perl code Contributing to CPAN Just like Learning Perl, material in this book closely follows the popular introductory Perl course the authors have taught since 1991. This second edition covers recent changes to the language up to version 5.14.

Regular expressions are an extremely powerful tool for manipulating text and data. They are now standard features in a wide range of languages and popular tools, including Perl, Python, Ruby, Java, VB.NET and C# (and any language using the .NET Framework), PHP, and MySQL. If you don't use regular expressions yet, you will discover in this book a whole new world of mastery over your data. If you already use them, you'll appreciate this book's unprecedented detail and breadth of coverage. If you think you know all you need to know about regular expressions, this book is a stunning eye-opener. As this book shows, a command of regular expressions is an invaluable skill. Regular expressions allow you to code complex and subtle text processing that you never imagined could be automated. Regular expressions can save you time and aggravation. They can be used to craft elegant solutions to a wide range of problems. Once you've mastered regular expressions, they'll become an invaluable part of your toolkit. You will wonder how you ever got by without them. Yet despite their wide availability, flexibility, and unparalleled power, regular expressions are frequently underutilized. Yet what is power in the hands of an expert can be fraught with peril for the unwary. Mastering Regular Expressions will help you navigate the minefield to becoming an expert and help you optimize your use of regular expressions. Mastering Regular Expressions, Third Edition, now includes a full chapter devoted to PHP and its powerful and expressive suite of regular expression functions, in addition to enhanced PHP coverage in the central "core" chapters. Furthermore, this edition has been updated throughout to reflect advances in other languages, including expanded in-depth coverage of Sun's `java.util.regex` package, which has emerged as the standard Java regex implementation. Topics include: A comparison of features among different versions of many languages and tools How the regular expression engine works Optimization (major savings available here!) Matching just what you want, but not what you don't want Sections and chapters on individual languages Written in the lucid, entertaining tone that makes a complex, dry topic become crystal-clear to programmers, and sprinkled with solutions to complex real-world problems, Mastering Regular Expressions, Third Edition offers a wealth information that you can put to immediate use. Reviews of this new edition and the second edition: "There isn't a better (or more useful) book available on regular expressions." --Zak Greant, Managing Director, eZ Systems "A real tour-de-force of a book which not only covers the mechanics of regexes in extraordinary detail but also talks about efficiency and the use of regexes in Perl, Java, and .NET...If you use regular expressions as part of your professional work (even if you already have a good book on whatever language you're programming in) I would strongly recommend this book to you." --Dr. Chris Brown, Linux Format "The author does an outstanding job leading the reader from regex novice

to master. The book is extremely easy to read and chock full of useful and relevant examples...Regular expressions are valuable tools that every developer should have in their toolbox. Mastering Regular Expressions is the definitive guide to the subject, and an outstanding resource that belongs on every programmer's bookshelf. Ten out of Ten Horseshoes." --Jason Menard, Java Ranch

The first book in Ross Macdonald's acclaimed Lew Archer series introduces the detective who redefined the role of the American private eye and gave the crime novel a psychological depth and moral complexity only hinted at before. Like many Southern California millionaires, Ralph Sampson keeps odd company. There's the sun-worshipping holy man whom Sampson once gave his very own mountain; the fading actress with sidelines in astrology and S&M. Now one of Sampson's friends may have arranged his kidnapping. As Lew Archer follows the clues from the canyon sanctuaries of the megarich to jazz joints where you get beaten up between sets, *The Moving Target* blends sex, greed, and family hatred into an explosively readable crime novel.

Take the guesswork out of using regular expressions. With more than 140 practical recipes, this cookbook provides everything you need to solve a wide range of real-world problems. Novices will learn basic skills and tools, and programmers and experienced users will find a wealth of detail. Each recipe provides samples you can use right away. This revised edition covers the regular expression flavors used by C#, Java, JavaScript, Perl, PHP, Python, Ruby, and VB.NET. You'll learn powerful new tricks, avoid flavor-specific gotchas, and save valuable time with this huge library of practical solutions.

Learn regular expressions basics through a detailed tutorial
Use code listings to implement regular expressions with your language of choice
Understand how regular expressions differ from language to language
Handle common user input with recipes for validation and formatting
Find and manipulate words, special characters, and lines of text
Detect integers, floating-point numbers, and other numerical formats
Parse source code and process log files
Use regular expressions in URLs, paths, and IP addresses
Manipulate HTML, XML, and data exchange formats
Discover little-known regular expression tricks and techniques

Historically, programming hasn't been considered a critical skill for biologists. But now, with access to vast amounts of biological data contained in public databases, programming skills are increasingly in strong demand in biology research and development. Perl, with its highly developed capacities in string handling, text processing, networking, and rapid prototyping, has emerged as the programming language of choice for biological data analysis. *Mastering Perl for Bioinformatics* covers the core Perl language and many of its module extensions, presenting them in the context of biological data and problems of pressing interest to the biological community. This book, along with *Beginning Perl for Bioinformatics*, forms a basic course in Perl programming. This second volume finishes the basic Perl tutorial material (references, complex data structures, object-oriented programming, use of modules--all presented in a biological context) and presents some advanced topics of considerable interest in bioinformatics. The range of topics covered in *Mastering Perl for Bioinformatics* prepares the reader for enduring and emerging developments in critical areas of bioinformatics programming such as: Gene finding
String alignment
Methods of data storage and retrieval (SML and databases)
Modeling of networks (graphs and Petri nets)
Graphics (Tk)
Parallelization
Interfacing with other programming languages

Statistics (PDL) Protein structure determination Biological models of computation (DNA Computers) Biologists and computer scientists who have conquered the basics of Perl and are ready to move even further in their mastery of this versatile language will appreciate the author's well-balanced approach to applying Perl's analytical abilities to the field of bioinformatics. Full of practical examples and real-world biological problem solving, this book is a must for any reader wanting to move beyond beginner level Perl in bioinformatics.

Many programmers would love to use Perl for projects that involve heavy lifting, but miss the many traditional algorithms that textbooks teach for other languages. Computer scientists have identified many techniques that a wide range of programs need, such as: Fuzzy pattern matching for text (identify misspellings!) Finding correlations in data Game-playing algorithms Predicting phenomena such as Web traffic Polynomial and spline fitting Using algorithms explained in this book, you too can carry out traditional programming tasks in a high-powered, efficient, easy-to-maintain manner with Perl. This book assumes a basic understanding of Perl syntax and functions, but not necessarily any background in computer science. The authors explain in a readable fashion the reasons for using various classic programming techniques, the kind of applications that use them, and -- most important -- how to code these algorithms in Perl. If you are an amateur programmer, this book will fill you in on the essential algorithms you need to solve problems like an expert. If you have already learned algorithms in other languages, you will be surprised at how much different (and often easier) it is to implement them in Perl. And yes, the book even has the obligatory fractal display program. There have been dozens of books on programming algorithms, some of them excellent, but never before has there been one that uses Perl. The authors include the editor of The Perl Journal and master librarian of CPAN; all are contributors to CPAN and have archived much of the code in this book there. "This book was so exciting I lost sleep reading it." Tom Christiansen

Perl is a versatile, powerful programming language used in a variety of disciplines, ranging from system administration to web programming to database manipulation. One slogan of Perl is that it makes easy things easy and hard things possible. This book is about making the leap from the easy things to the hard ones. Learning Perl Objects, References & Modules offers a gentle but thorough introduction to advanced programming in Perl. Written by the authors of the best-selling Learning Perl, this book picks up where that book left off. Topics include: Packages and namespaces References and scoping Manipulating complex data structures Object-oriented programming Writing and using modules Contributing to CPAN Following the successful format of Learning Perl, each chapter in the book is designed to be small enough to be read in just an hour or two, ending with a series of exercises to help you practice what you've learned. To use the book, you just need to be familiar with the material in Learning Perl and have ambition to go further. Perl is a different language to different people. It is a quick scripting tool for some, and a fully-featured object-oriented language for others. It is used for everything from performing quick global replacements on text files, to crunching huge, complex sets of scientific data that take weeks to process. Perl is what you make of it. But regardless of what you use Perl for, this book helps you do it more effectively, efficiently, and elegantly. Learning Perl Objects, References & Modules is about learning to use Perl as a programming language, and not just a scripting language. This is the book that separates the Perl dabbler from the Perl programmer.

Authored by two of the leading authorities in the field, this guide offers readers the knowledge and skills needed to achieve proficiency with embedded software.

A hands-on, problem-solving guide to Perl programming explains how to enhance one's proficiency in Perl and includes useful examples and code, as well as self-documenting, object-oriented modules available with Perl 5. Original. (Intermediate).

Coding and testing are often considered separate areas of expertise. In this comprehensive guide, author and Java expert Scott Oaks takes the approach that anyone who works with Java should be equally adept at understanding how code behaves in the JVM, as well as the tunings likely to help its performance. You'll gain in-depth knowledge of Java application performance, using the Java Virtual Machine (JVM) and the Java platform, including the language and API. Developers and performance engineers alike will learn a variety of features, tools, and processes for improving the way Java 7 and 8 applications perform. Apply four principles for obtaining the best results from performance testing Use JDK tools to collect data on how a Java application is performing Understand the advantages and disadvantages of using a JIT compiler Tune JVM garbage collectors to affect programs as little as possible Use techniques to manage heap memory and JVM native memory Maximize Java threading and synchronization performance features Tackle performance issues in Java EE and Java SE APIs Improve Java-driven database application performance

The Classic Guide to Solving Real-World Problems with Perl—Now Fully Updated for Today's Best Idioms! For years, experienced programmers have relied on Effective Perl Programming to discover better ways to solve problems with perl. Now, in this long-awaited second edition, three renowned Perl programmers bring together today's best idioms, techniques, and examples: everything you need to write more powerful, fluent, expressive, and succinct code with Perl. Nearly twice the size of the first edition, Effective Perl Programming, Second Edition, offers everything from rules of thumb to avoid common pitfalls to the latest wisdom for using Perl modules. You won't just learn the right ways to use Perl: You'll learn why these approaches work so well. New coverage in this edition includes Reorganized and expanded material spanning twelve years of Perl evolution Eight new chapters on CPAN, databases, distributions, files and filehandles, production Perl, testing, Unicode, and warnings Updates for Perl 5.12, the latest version of Perl Systematically updated examples reflecting today's best idioms You'll learn how to work with strings, numbers, lists, arrays, strictures, namespaces, regular expressions, subroutines, references, distributions, inline code, warnings, Perl::Tidy, data munging, Perl one-liners, and a whole lot more. Every technique is organized in the same Items format that helped make the first edition so convenient and popular.

Take the next step toward Perl mastery with advanced concepts that make coding easier, maintenance simpler, and execution faster. Mastering Perl isn't a collection of clever tricks, but a way of thinking about Perl programming for solving debugging, configuration, and many other real-world problems you'll encounter as a working programmer. The third in O'Reilly's series of landmark Perl tutorials (after Learning Perl and Intermediate Perl), this fully updated edition pulls everything together and helps you bend Perl to your will. Explore advanced regular expressions features Avoid common problems when writing secure programs Profile and benchmark Perl programs to see where they need work Wrangle Perl code to make it more presentable and readable Understand how Perl keeps track of package variables Define subroutines on the fly Jury-rig modules to fix code without editing the original source Use bit operations and bit vectors to store large data efficiently Learn how to detect errors that Perl doesn't report Dive into logging, data persistence, and the magic of tied variables BRIDGE THE GAP BETWEEN NOVICE AND PROFESSIONAL You've completed a basic Python programming tutorial or finished Al Sweigart's bestseller, Automate the Boring Stuff with Python. What's the next step toward becoming a capable, confident software developer? Welcome to Beyond the Basic Stuff with Python. More than a mere collection of advanced syntax and masterful tips for writing clean code, you'll learn how to advance your Python programming skills by using the command line and other professional tools like code formatters, type checkers, linters, and version control. Sweigart takes you through best practices for setting up your development environment, naming variables, and improving readability, then tackles documentation, organization and performance measurement, as well

as object-oriented design and the Big-O algorithm analysis commonly used in coding interviews. The skills you learn will boost your ability to program--not just in Python but in any language. You'll learn:

- Coding style, and how to use Python's Black auto-formatting tool for cleaner code
- Common sources of bugs, and how to detect them with static analyzers
- How to structure the files in your code projects with the Cookiecutter template tool
- Functional programming techniques like lambda and higher-order functions
- How to profile the speed of your code with Python's built-in timeit and cProfile modules
- The computer science behind Big-O algorithm analysis
- How to make your comments and docstrings informative, and how often to write them
- How to create classes in object-oriented programming, and why they're used to organize code

Toward the end of the book you'll read a detailed source-code breakdown of two classic command-line games, the Tower of Hanoi (a logic puzzle) and Four-in-a-Row (a two-player tile-dropping game), and a breakdown of how their code follows the book's best practices. You'll test your skills by implementing the program yourself. Of course, no single book can make you a professional software developer. But Beyond the Basic Stuff with Python will get you further down that path and make you a better programmer, as you learn to write readable code that's easy to debug and perfectly Pythonic

Requirements: Covers Python 3.6 and higher

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