

## Network Programming With Perl

Presents guidelines on the art of coding with Perl, covering such topics as naming conventions, data and control structures, program decomposition, interface design, and error handling.

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

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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.

Explains how to use the programming language to write online applications with each chapter describing one specific Web-based application--diagramming the code and suggesting potential modifications.

Network Programming with Perl Addison-Wesley Professional 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

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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. 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. Looks at the Perl test tools and offers a series of exercises that cover such topics as bundling test suites, testing databases, and testing Web sites and projects.

In the days before personal computers, BASIC was the easy programming language to learn, and serious programmers learned FORTRAN or COBOL to do "real work." Today, many people have discovered that Perl is both a great beginning programming language and one that enables them to write powerful programs with little effort. If you're interested in discovering how to program (or how others program), Perl For Dummies, 4th Edition, is for you. If you already know something about programming (but not about Perl), this book is also for you. If you're already an expert programmer, you're still welcome to read this book; you can just skip the basic stuff (you never know what kind of new tips and tricks you'll pick up). This reference guide shows you how to use Perl under many different operating systems, such as UNIX, many flavors of Windows (Windows 95/98, Windows NT, Windows 2000, Windows Me, and Windows XP), and Macintosh OS 9 and OS X; in fact, Perl

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runs on many more operating systems than these. Here's a sampling of what Perl For Dummies, 4th Edition, has to offer: Installing Perl on various platforms Nailing down the basics of building Perl programs Working with text and numbers Constructing lists and working with them Creating conditionals and loops Delving into more advanced features such as operators and functions Reading and writing files and directories Using subroutines for modularity Demystifying Web server programs Creating your own Internet clients The Perl programming language enables you to write fully working computer programs with just a few steps. It's particularly good at common programming tasks, such as reading and writing textfiles, but it also excels at reducing the work that programmers have to do. Perl For Dummies, 4th Edition, shows you how to do all of that and how to modify programs to your heart's content. After all, one of the common phrases in the world of Perl programmers is, "There's more than one way to do it."

A guide to developing network programs covers networking fundamentals as well as TCP and UDP sockets, multicasting protocol, content handlers, servlets, I/O, parsing, Java Mail API, and Java Secure Sockets Extension.

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

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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

A Perl expert can solve a problem in a few lines of well-tested code. Now you can unlock these powers for yourself. Modern Perl teaches you how Perl really works. It's the only book that explains Perl thoroughly, from its philosophical roots to the pragmatic decisions that help you solve real problems--and keep them solved. You'll understand how the language fits together and discover the secrets used by the global Perl community. This beloved guide is now completely updated for Perl 5.22. When you have to solve a problem now, reach for Perl. When you have to solve a problem right, reach for

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Modern Perl. Discover how to scale your skills from one-liners to asynchronous Unicode-aware web services and everything in between. Modern Perl will take you from novice to proficient Perl hacker. You'll see which features of modern Perl will make you more productive, and which features of this well-loved language are best left in the past. Along the way, you'll take advantage of Perl to write well-tested, clear, maintainable code that evolves with you. Learn how the language works, how to take advantage of the CPAN's immense trove of time-tested solutions, and how to write clear, concise, powerful code that runs everywhere. Specific coverage explains how to use Moose, how to write testable code, and how to deploy and maintain real-world Perl applications. This new edition covers the new features of Perl 5.20 and Perl 5.22, including all the new operators, standard library changes, bug and security fixes, and productivity enhancements. It gives you what you need to use the most up-to-date Perl most effectively, all day, every day. What You Need: Perl 5.16 or newer (Perl 5.20 or 5.22 preferred). Installation/upgrade instructions included. This is a book for those of us who believed that we didn't need to learn Perl, and now we know it is more ubiquitous than ever. Perl is extremely flexible and powerful, and it isn't afraid of Web 2.0 or the cloud. Originally touted as the duct tape of the Internet, Perl has since evolved into a multipurpose, multiplatform language present absolutely everywhere: heavy-duty web applications, the cloud, systems administration, natural language processing, and financial engineering. Beginning Perl, Third Edition provides valuable insight

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into Perl's role regarding all of these tasks and more. Commencing with a comprehensive overview of language basics, you'll learn all about important concepts such as Perl's data types and control flow constructs. This material sets the stage for a discussion of more complex topics, such as writing custom functions, using regular expressions, and file input and output. Next, the book moves on to the advanced topics of object-oriented programming, modules, web programming, and database administration with Perl's powerful database interface module, DBI. The examples and code provided offer you all of the information you need to start writing your own powerful scripts to solve the problems listed above, and many more. Whether you are a complete novice or an experienced programmer, *Beginning Perl, Third Edition* offers an ideal guide to learning Perl.

Seventy articles from the first five years of "The Perl Journal" discuss advanced programming techniques, the mechanics of Perl, and other aspects of computer science.

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).

Perl is a powerful programming language that has grown in popularity since it first appeared in 1988. The first edition of this book, *Programming Perl*, hit the shelves in 1990, and was quickly adopted as the undisputed bible of the language. Since then, Perl has grown with the

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times, and so has this book. Programming Perl is not just a book about Perl. It is also a unique introduction to the language and its culture, as one might expect only from its authors. Larry Wall is the inventor of Perl, and provides a unique perspective on the evolution of Perl and its future direction. Tom Christiansen was one of the first champions of the language, and lives and breathes the complexities of Perl internals as few other mortals do. Jon Orwant is the editor of The Perl Journal, which has brought together the Perl community as a common forum for new developments in Perl. Any Perl book can show the syntax of Perl's functions, but only this one is a comprehensive guide to all the nooks and crannies of the language. Any Perl book can explain typeglobs, pseudohashes, and closures, but only this one shows how they really work. Any Perl book can say that my is faster than local, but only this one explains why. Any Perl book can have a title, but only this book is affectionately known by all Perl programmers as "The Camel." This third edition of Programming Perl has been expanded to cover version 5.6 of this maturing language. New topics include threading, the compiler, Unicode, and other new features that have been added since the previous edition.

This text teaches users how to extend scripting skills to the Web. Readers learn the basics of how browsers communicate with servers and how to write customized Web clients to automate common tasks.

After providing an introduction to the Perl programming language, this helpful guide teaches computer networking using Perl. Topics discussed include ethernet



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network analysis, programming standard Internet protocols, and exploring mobile agent programming. \* Each chapter provides a general discussion of the technologies under consideration, the support for programming the technologies as provided by Perl, and implementations of working examples \* Covers Mobile Agent Technology, which is set to become one of the "next big things" on the Internet \* Further information is supplied, including a listing of Web and print resources, programming exercises, and tips to expand the reader's understanding of the material

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.

\* Covers low-level networking in Python —essential for writing a new networked application protocol. \* Many working examples demonstrate concepts in action -- and can be used as starting points for new projects. \* Networked application security is demystified. \* Exhibits and explains multitasking network servers using several models, including

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forking, threading, and non-blocking sockets. \*  
Features extensive coverage of Web and E-mail.  
Describes Python's database APIs.  
"Practical solutions for rapid Web services  
development"--Cover.

Learn PERL programming for absolute Beginners  
guide: Practical Approach about Linux system  
administration, network programming and web  
development in this book learn about Perl is a  
programming language specially designed for text  
editing. It is now widely used for a variety of  
purposes including Linux system administration,  
network programming, web development, etc.  
KEY TOPICS  
Chapter 1: INTRODUCTION OF  
PERL  
Chapter 2: Download & Install Perl - Windows,  
Mac & Linux  
Chapter 3: Perl Variable  
Chapter 4: Perl  
Array  
Chapter 5: Perl Hashes  
Chapter 6: Perl  
Conditional Statements  
Chapter 7: Perl Loops -  
Control Structures  
Chapter 8: Perl Operator  
Chapter 9: Perl Special Variables  
Chapter 10: Perl Regular  
Expression  
Chapter 11: Perl File I/O  
Chapter 12: Perl  
Subroutine  
Chapter 13: Perl Error Handling  
Chapter 14: Perl Socket programming  
Chapter 15: What is Perl  
Modules and Packages  
Chapter 16: Object Oriented  
Programming in Perl

This complete guide to the Perl programming  
language ranges widely through the Perl  
programmer's universe, gathering together in a  
convenient form a wealth of information about Perl

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itself and its application to CGI scripts, XML processing, network programming, database interaction, and graphical user interfaces. The book is an ideal reference for experienced Perl programmers and beginners alike. With more than a million dedicated programmers, Perl is proving to be the best language for the latest trends in computing and business, including network programming and the ability to create and manage web sites. It's a language that every Unix system administrator and serious web developer needs to know. In the past few years, Perl has found its way into complex web applications of multinational banks, the U.S. Federal Reserve, and hundreds of large corporations. In this second edition, Perl in a Nutshell has been expanded to include coverage of Perl 5.8, with information on Unicode processing in Perl, new functions and modules that have been added to the core language, and up-to-date details on running Perl on the Win32 platform. The book also covers Perl modules for recent technologies such as XML and SOAP. Here are just some of the topics contained in this book: Basic Perl reference Quick reference to built-in functions and standard modules CGI.pm and mod\_perl XML::\* modules DBI, the database-independent API for Perl Sockets programming LWP, the library for Web programming in Perl Network programming with the Net modules Perl/Tk, the Tk extension to Perl for graphical

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interfaces Modules for interfacing with Win32 systems As part of the successful "in a Nutshell" book series from O'Reilly & Associates, Perl in a Nutshell is for readers who want a single reference for all their needs."In a nutshell, Perl is designed to make the easy jobs easy, without making the hard jobs impossible."-- Larry Wall, creator of Perl

This book is a guide to Perl's most common Win32 extensions, grouped by their functionality. The new edition updates coverage from Perl 5.05 to current Perl version 5.6. It also includes new chapters offering critical, badly-needed information regarding security for Win32Perl, the topic most highly requested by reviewers. The appendices have descriptions and syntax of each function in the extensions covered. Each chapter makes extensive use of code segments to illustrate the use of specific functions and real world scenarios in which these functions can be used.

Perl soared to popularity as a language for creating and managing web content, but with LWP (Library for WWW in Perl), Perl is equally adept at consuming information on the Web. LWP is a suite of modules for fetching and processing web pages. The Web is a vast data source that contains everything from stock prices to movie credits, and with LWP all that data is just a few lines of code away. Anything you do on the Web, whether it's buying or selling, reading or writing, uploading or

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downloading, news to e-commerce, can be controlled with Perl and LWP. You can automate Web-based purchase orders as easily as you can set up a program to download MP3 files from a web site. Perl & LWP covers: Understanding LWP and its design Fetching and analyzing URLs Extracting information from HTML using regular expressions and tokens Working with the structure of HTML documents using trees Setting and inspecting HTTP headers and response codes Managing cookies Accessing information that requires authentication Extracting links Cooperating with proxy caches Writing web spiders (also known as robots) in a safe fashion Perl & LWP includes many step-by-step examples that show how to apply the various techniques. Programs to extract information from the web sites of BBC News, Altavista, ABEBooks.com, and the Weather Underground, to name just a few, are explained in detail, so that you understand how and why they work. Perl programmers who want to automate and mine the web can pick up this book and be immediately productive. Written by a contributor to LWP, and with a foreword by one of LWP's creators, Perl & LWP is the authoritative guide to this powerful and popular toolkit. Addresses the creation of bug-free Perl code while explaining how to trace code, test programs, operate the debugger, locate and correct syntax errors, and deal with run-time exceptions and semantical errors.

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A guide to getting the most out of Perl covers such topics as productivity hacks, user interaction, data munging, working with modules, object hacks, and debugging.

A guide for administrators running Unix, Windows NT, or Mac OS platforms demonstrates the use of the programming language in file system management, directory services, user administration, log files, and security and network monitoring. Most Perl programmers were originally trained as C and Unix programmers, so the Perl programs that they write bear a strong resemblance to C programs. However, Perl incorporates many features that have their roots in other languages such as Lisp. These advanced features are not well understood and are rarely used by most Perl programmers, but they are very powerful. They can automate tasks in everyday programming that are difficult to solve in any other way. One of the most powerful of these techniques is writing functions that manufacture or modify other functions. For example, instead of writing ten similar functions, a programmer can write a general pattern or framework that can then create the functions as needed according to the pattern. For several years Mark Jason Dominus has worked to apply functional programming techniques to Perl. Now Mark brings these flexible programming methods that he has successfully taught in numerous tutorials and training sessions to a wider audience. \* Introduces powerful programming methods new to most Perl programmers that were previously the domain of

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computer scientists \* Gradually builds up confidence by describing techniques of progressive sophistication \* Shows how to improve everyday programs and includes numerous engaging code examples to illustrate the methods

If you do systems administration work of any kind, you have to deal with the growing complexity of your environment and increasing demands on your time. Automating System Administration with Perl, Second Edition, not only offers you the right tools for your job, but also suggests the best way to approach specific problems and to securely automate recurring tasks. Updated and expanded to cover the latest operating systems, technologies, and Perl modules, this edition of the "Otter Book" will help you: Manage user accounts Monitor filesystems and processes Work with configuration files in important formats such as XML and YAML Administer databases, including MySQL, MS-SQL, and Oracle with DBI Work with directory services like LDAP and Active Directory Script email protocols and spam control Effectively create, handle, and analyze log files Administer network name and configuration services, including NIS, DNS and DHCP Maintain, monitor, and map network services, using technologies and tools such as SNMP, nmap, libpcap, GraphViz and RRDtool Improve filesystem, process, and network security This edition includes additional appendixes to get you up to speed on technologies such as XML/XPath, LDAP, SNMP, and SQL. With this book in hand and Perl in your toolbox, you can do more with less -- fewer resources, less effort, and far less hassle.

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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 practical introduction to programming in Perl utilizing the rich capabilities of Perl and the services provided by .NET.

The book is logically divided into 5 main categories with each category representing a major skill set required by most security professionals: 1. Coding – The ability to program and script is quickly becoming a mainstream requirement for just about everyone in the security industry. This section covers the basics in coding complemented with a slue of programming tips and tricks in C/C++, Java, Perl and NASL. 2. Sockets – The technology that allows programs and scripts to communicate over a network is sockets. Even though the theory remains the same – communication over TCP and UDP, sockets are implemented differently in nearly ever language. 3. Shellcode – Shellcode, commonly defined as bytecode converted from Assembly, is utilized to execute commands on remote systems via direct memory access. 4. Porting – Due to the differences between operating platforms and language implementations on those platforms, it is a common practice to modify an original body of code to work on a different platforms. This technique is known as porting and is incredible useful in the real world environments since it allows you to not “recreate the wheel. 5. Coding Tools – The culmination of the previous four sections, coding tools brings all of the techniques that you have



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learned to the forefront. With the background technologies and techniques you will now be able to code quick utilities that will not only make you more productive, they will arm you with an extremely valuable skill that will remain with you as long as you make the proper time and effort dedications. \*Contains never before seen chapters on writing and automating exploits on windows systems with all-new exploits. \*Perform zero-day exploit forensics by reverse engineering malicious code. \*Provides working code and scripts in all of the most common programming languages for readers to use TODAY to defend their networks.

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.

The author Sam Tregar tells programmers how best to use and contribute modules to the Open Source repository known as CPAN (Comprehensive Perl Archive Network).

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

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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  $\pi$  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.

Demonstrates the use of Perl to manipulate data removed from one system for use in another, explaining data structures design, parsing techniques, and HTML and XML processing.

The book has an introductory chapter that gets the reader started quickly with programming in Perl. The initial part of the book discusses Perl expressions, statements, control flow, built-in data types such as arrays and hashes, and complex data structures built using references. On Perl has several chapters covering specialized topics. The chapter on socket-based network programming deals with forking and using `fork` to write complex interactive client-server programs. There is a chapter with in-depth discussion of CGI programming including error-handling and security issues that arise. The chapter on web-client programming deals with writing programs that access Web pages, fill up GET and

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POST forms, handle cookies and redirected Web pages. The book has several unique chapters not found in any other book on Perl in the market. The chapter on security discusses hashes such as MD5, message authentication codes (MACs), digital signature schemes, and encryption techniques such as DES, Rijndael, and RSA. Other chapters deal with writing recursive programs that work with files and directories; this chapter also discusses predefined modules that deal with portability in file names and paths across operating systems, recursive traversal of file hierarchies and tarring and untarring of files. The chapter on functional programming illustrates that Perl functions are first-class, can be used to write closures and can be composed to form more complex functions. In particular, this can be useful for programming in artificial intelligence.

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

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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.

Extending and Embedding Perl explains how to expand the functionality and usefulness of the Perl programming language and how to use Perl from C programs. It begins simply but also covers complex issues using real code examples from the Perl source.

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

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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

The complete Perl learning resource for novices and experienced programmers alike, with advanced coverage that highlights GUI development, networking applications, real database integration, and much more. Includes many clear examples of using references (pointers)--the cornerstone of all advanced Perl development.

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