

## Learning Perl 7e

Learning Perl Making Easy Things Easy and Hard Things Possible"O'Reilly Media, Inc."

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.

An illustrated tutorial shows how to use Perl/Tk to build graphical, event-driven applications for both Windows and UNIX and teaches how to implement and configure each Perl/Tk graphical element. Original. (Intermediate).

With continuous advancements and an increase in user popularity, data mining technologies serve as an invaluable resource for researchers across a wide range of disciplines in the humanities and social sciences. In this comprehensive guide, author and research scientist Kalev Leetaru introduces the approaches, strategies, and methodologies of current data mining techniques, offering insights for new and experienced users alike. Designed as an instructive reference to computer-based analysis approaches, each chapter of this resource explains a set of core concepts and analytical data mining strategies, along with detailed examples and steps relating to current data mining practices. Every technique is considered with regard to context, theory of operation and methodological concerns, and focuses on the capabilities and strengths relating to these technologies. In addressing critical methodologies and approaches to automated analytical techniques, this work provides an essential overview to a broad innovative field.

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.

William "Bo" Rothwell's Advanced Perl Programming continues where his previous book left off, more or less, as it guides you through advanced techniques of the Perl programming language starting with command-line options, references, and arrays and hashes from advanced data types. Next, you'll learn about typeglobs for symbolic entries. Additionally, you'll see advanced subroutine handling, then packages and namespaces. Furthermore, you'll build advanced modules and install CPAN modules. Unlike Java and C++, modules have been around in Perl for a long time now. Along the way, you'll learn and use POD mark up language for Perl documentation. Moreover, you'll get a survey of the many advanced features and data structures of the current Perl programming language. You'll also get a survey of the new features of the latest Perl 5.x release. After reading and using this book, you'll have the tools, techniques, and source code to be an expert Perl programmer. What You Will Learn Carry out command-line parsing and extract scripts Create references; return values from a reference; work with the ref Function and strict refs Work with advanced Perl data types using arrays, hashes, and hash of hashes Use Typeglobs for symbol table entries Build modules and install CPAN modules Write documentation for Perl using POD Work with the newest features in Perl, including the smartmatch operator, yada yada, automated regex modifiers, the CORE namespace and more Who This Book Is For Those with experience with Perl or who have read Rothwell's prior books, Beginning Perl Programming and Pro Perl Programming. One of the greatest strengths of the Perl programming language is its ability to manipulate large amounts of data. Database programming is therefore a natural fit for Perl, not only for business applications but also for CGI-based web and intranet applications. The primary interface for database programming in Perl is DBI. DBI is a database-independent package that provides a consistent set of routines regardless of what database product you use--Oracle, Sybase, Ingres, Informix, you name it. The design of DBI is to separate the actual database drivers

(DBDs) from the programmer's API, so any DBI program can work with any database, or even with multiple databases by different vendors simultaneously. Programming the Perl DBI is coauthored by Alligator Descartes, one of the most active members of the DBI community, and by Tim Bunce, the inventor of DBI. For the uninitiated, the book explains the architecture of DBI and shows you how to write DBI-based programs. For the experienced DBI dabbler, this book reveals DBI's nuances and the peculiarities of each individual DBD. The book includes: An introduction to DBI and its design How to construct queries and bind parameters Working with database, driver, and statement handles Debugging techniques Coverage of each existing DBD A complete reference to DBI This is the definitive book for database programming in Perl.

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 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.

Enhance productivity in any Office application with zero programming experience Mastering VBA for Microsoft Office 2016 helps you extend the capabilities of the entire Office suite using Visual Basic for Applications (VBA). Even if you have no programming experience, you'll be automating routine computing processes quickly using the simple, yet powerful VBA programming language. Clear, systematic tutorials walk beginners through the basics, while intermediate and advanced content guides more experienced users toward efficient solutions. This comprehensive guide starts at the beginning to get you acquainted with VBA so you can start recording macros right away. You'll then build upon that foundation to utilize the full capabilities of the language as you use loops and functions, message boxes, input boxes, and dialog boxes to design your own Office automation program. Add-ins, embedded macros, content controls, and more give you advanced tools to enhance productivity, and all instruction is backed by real-world practice projects in Word, Excel, Outlook, and PowerPoint. Productivity is the name of the game, and automating certain computing tasks is an easy solution with significant impact for any business. This book shows you how, with step-by-step guidance and expert insight. Expand Office 2016 functionality with macros Learn how to work with VBA and the entire Office suite Create effective code, even with no programming experience Understand ActiveX, XML-based files, the developer tab, and more VBA is

designed to be understandable and accessible to beginners, but powerful enough to create specialized business applications. If you're ready to begin exploring the possibilities, *Mastering VBA for Microsoft Office 2016* gets you started right away. 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 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. 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. 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. 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. 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. 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.

Learning Perl, popularly known as "the Llama," is the book most programmers rely on to get started with Perl. The bestselling Perl tutorial since it was first published in 1993, this new fifth edition covers recent changes to the language up to Perl 5.10. This book reflects the combined experience of its authors, who have taught Perl at Stonehenge Consulting since 1991. Years of classroom testing and experience helped shape the book's pace and scope, and this edition is packed with exercises that let you practice the concepts while you follow the text. Topics include: Perl data & variable types Subroutines File operations Regular expressions String manipulation Lists & sorting Process management Smart matching Using third party modules Perl is the language for people who want to get work done. Originally targeted to sysadmins for heavy-duty text processing, Perl is now a full-featured programming language suitable for almost any task on almost any platform-from short fixes on the command line to web applications, bioinformatics, finance, and much more. Other books may teach you to program in Perl, but this book will turn you into a Perl programmer.

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). If you're just learning how to program, Julia is an excellent JIT-compiled, dynamically typed language with a clean syntax. This hands-on guide uses Julia 1.0 to walk you through programming one step at a time, beginning with basic programming concepts before moving on to more advanced capabilities, such as creating new types and multiple dispatch. Designed from the beginning for high performance, Julia is a general-purpose language ideal for not only numerical analysis and computational science but also web programming and scripting. Through exercises in each chapter, you'll try out programming concepts as you learn them. Think Julia is perfect for students at the high school or college level as well as self-learners and professionals who need to learn programming basics. Start with the basics, including language syntax and semantics Get a clear definition of each programming concept Learn about values, variables, statements, functions, and data structures in a logical progression Discover how to work with files and databases Understand types, methods, and multiple dispatch Use debugging techniques to fix syntax, runtime, and semantic errors Explore interface design and data structures through case studies

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.

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.

'Sams Teach Yourself Perl in 21 Days' covers the basics in the first few chapters, and then moves on to practical uses of Perl and in-depth discussions of more advanced topics. Perl is a popular programming language typically used in Unix systems.

This new highly-illustrated series is guaranteed to make you laugh so hard milk will come out of your nose! Strangeville School is the wackiest, most dangerous school you will ever attend...and you'll desperately want to come back for more! Harvey Hill just wants other kids to think he's normal. So he's happy to start fresh as the newest kid at Strangeville Middle School. Except Strangeville is anything but normal. Something sinister swims in the drinking fountain, the cafeteria could swallow you whole, and a giant rat named Cuddles is on the loose. And don't even get the vice principal started on the third-floor supply closet. In fact, don't even think about it. What supply closet? At least Harvey has his guide and sort-of new friend Stella Cho to show him the ropes. School newspaper reporter, first chair flugelhorn, and hiding a secret of her own, Stella shows Harvey that maybe "normal" is overrated. But when Stella goes missing while trying to solve the secret of the supply closet (oh that supply closet!), Harvey must embrace what makes him unique to save his new friend and his new school. Sideways Stories from Wayside School meets Welcome to Nightvale in this wacky new series!

This book is an introduction to the rudiments of Perl programming. It provides the general reader with an interest in language with the most usable and relevant aspects of Perl for writing programs that deal with language. Exposes the general reader with an interest in language to the most usable and relevant aspects of Perl for writing programs that deal with language. Contains simple examples and exercises that gradually introduce the reader to the essentials of good programming. Assumes no prior



programming experience. Accompanied by exercises at the end of each chapter and offers all the code on the companion website: <http://www.u.arizona.edu/~hammond>

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 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 text files, 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 the syntax and semantics of regular expressions for Perl 5.8, Ruby, Java, PHP, C#, .NET, Python, JavaScript, and PCRE.

If you’re just getting started with Perl, this is the book you want—whether you’re a programmer, system administrator, or web hacker. Nicknamed “the Llama” by two generations of users, this bestseller closely follows the popular introductory Perl course taught by the authors since 1991. This seventh edition covers recent changes to the language up to version 5.24. Perl is suitable for almost any task on almost any platform, from short fixes to complete web applications. Learning Perl teaches you the basics and shows you how to write programs up to 128 lines long—roughly the size of 90% of the Perl programs in use today. Each chapter includes exercises to help you practice what you’ve just learned. Other books may teach you to program in Perl, but this book will turn you into a Perl programmer. Topics include: Perl data and variable types Subroutines File operations Regular expressions String manipulation (including Unicode) Lists and sorting Process management Smart matching Use of third party modules

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.

With its highly developed capacity to detect patterns in data, Perl has become one of the most popular languages for biological data analysis. But if you're a biologist with little or no programming experience, starting out in Perl can be a challenge. Many biologists have a difficult time learning how to apply the language to bioinformatics. The most popular Perl programming books are often too theoretical and too focused on computer science for a non-programming biologist who needs to solve very specific problems. Beginning Perl for Bioinformatics is designed to get you quickly over the Perl language barrier by approaching programming as an important new laboratory skill, revealing Perl programs and techniques that are immediately useful in the lab. Each chapter focuses on solving a particular bioinformatics problem or class of problems, starting with the simplest and increasing in complexity as the book progresses. Each chapter includes programming exercises and teaches bioinformatics by showing and modifying programs that deal with various kinds of practical biological problems. By the end of the book you'll have a solid understanding of Perl basics, a collection of programs for such tasks as parsing BLAST and GenBank, and the skills to take on more advanced bioinformatics programming. Some of the later chapters focus in greater detail on specific bioinformatics topics. This book is suitable for use as a classroom textbook, for self-study, and as a reference. The book covers: Programming basics and working with DNA sequences and strings Debugging your code Simulating gene mutations using random number generators Regular expressions and finding motifs in data Arrays, hashes, and relational databases Regular expressions and restriction maps Using Perl to parse PDB records, annotations in GenBank, and BLAST output

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.

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

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

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

Get started with Perl 5 and learn the important core concepts of Perl programming, such as variables, flow control, expressions, and I/O. Additionally, this book covers pattern matching and shows that Perl is extremely flexible and



powerful, and that it isn't afraid of the cloud. After reading and using this book, you'll be able to start writing your own powerful scripts to solve many web and programming problems. 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. You'll see that Perl has evolved into a multipurpose, multiplatform language present absolutely everywhere: heavy-duty web applications, the cloud, systems administration, natural language processing, and financial engineering. This book provides valuable insight into Perl's role regarding all of these tasks and more giving you a great start in your Perl programming adventure. What You Will Learn Perform operations on scalar values Use scalar, array, and associative array variables Work with flow control statements such as if, unless, while, until, for, and foreach Read and write directly to files with file handles Use conditional expressions such as numeric and string comparison, regular expressions, file testing, and Perl statements Format output with format statements Search for and replace sub-strings within a string using regular expressions Master Perl utilities such as split, join, index and more Control the file system and processes from within a Perl script Build functions for tasks including handling the scope of variables Import existing modules into your Perl script Who This Book Is For Those who are new to Perl.

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

Written by one of today's top-selling author's on programming languages, this practical, trailblazing guide to learning Perl offers all the advantages of a reference manual with a detailed, yet concise study on all of the language's key elements, and is not dependent upon either UNIX or Windows. Begins with a complete introduction to Perl: what it is, scripts vs. programs, its central characteristics, and more. Examines scalar types, expressions, and simple input and output; control statements; arrays; hashes and references; functions; pattern matching; files, input/output, and formats; CGI programming with Perl; and other advanced topics. Each chapter includes a summary and numerous exercises. For professionals in the computer science and related fields.

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 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 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

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