

# Mastering Perl Tk Graphical User Interfaces With

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

*If you ask Perl programmers today what book they relied on most when they were learning Perl, you'll find that an overwhelming majority will name Learning Perl--also known affectionately as "the Llama." The first edition of Learning Perl appeared in 1993 and has been a bestseller ever since. Written by two of the most prominent and active members of the Perl community, this book is the quintessential tutorial for the Perl programming language. Perl began as a tool for Unix system administrators, used for countless small tasks throughout the workday. It has since blossomed into a full-featured programming language on practically every computing platform, and is used for web programming, database manipulation, XML processing, and (of*

course) system administration--all this while still remaining the perfect tool for the small daily tasks it was designed for. Perl is quick, fun, and eminently useful. Many people start using Perl because they need it, but they continue to use Perl because they love it. The third edition of Learning Perl has not only been updated for Perl 5.6, but has also been rewritten from the ground up to reflect the needs of programmers learning Perl today. Informed by their years of success at teaching Perl as consultants, the authors have re-engineered the book to better match the pace and scope appropriate for readers trying to get started with Perl, while retaining the detailed discussion, thorough examples, and eclectic wit for which the book is famous. This edition of the Llama includes an expanded and more gently-paced introduction to regular expressions, new exercises and solutions designed so readers can practice what they've learned while it's still fresh in their minds, and an overall reworking to bring Learning Perl into the new millennium. Perl is a

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*language for getting your job done. Other books may teach you to program in Perl, but this book will turn you into a Perl programmer.*

*Regular expressions are such a powerful tool for manipulating text and data that anyone who uses a computer can benefit from them. Composed of a mixture of symbols and text, regular expressions can be an outlet for creativity, for brilliant programming, and for the elegant solution. While a command of regular expressions is an invaluable skill, all there is to know about them fills a very large volume, and you don't always have time to thumb through hundreds of pages each time a question arises. The answer is the *Regular Expression Pocket Reference*. Concise and easy-to-use, this little book is the portable companion to *Mastering Regular Expressions*. This handy guide offers programmers a complete overview of the syntax and semantics of regular expressions that are at the heart of every text-processing application. Ideal as an introduction for beginners and a quick reference for advanced programmers,*

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*Regular Expression Pocket Reference is a comprehensive guide to regular expression APIs for C, Perl, PHP, Java, .NET, Python, vi, and the POSIX regular expression libraries. O'Reilly's Pocket References have become a favorite among programmers everywhere. By providing a wealth of important details in a concise, well-organized format, these handy books deliver just what you need to complete the task at hand. When you've reached a sticking point and need to get to a solution quickly, the new Regular Expression Pocket Reference is the book you'll want to have.*

*Offers practical guidelines on how to use the popular open source language Perl to manage, monitor, and tune Oracle databases, describing such Oracle/Perl software modules as Oracle Call Interface and Perl DataBase Interface, and features more than one hundred ready-to-use programs for database administrators to use in a Linux or Windows system. Original. (Intermediate)*

*Best of the Perl Journal*

*Practical Programming Through Computer Science*

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## ***Programming Graphical User Interfaces in R***

## ***Creating SVG, SWF (Flash), JPEG and PNG Files with Perl***

## ***Python and Tkinter Programming***

## ***Best of The Perl Journal***

Forty articles from the first five years of "The Perl Journal" discuss web site development, techniques for creating graphics, and using the Perl/TK toolkit for graphical applications.

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.

Master intermediate to advanced techniques of the Perl programming language starting with a focus on regular expressions and some of their advanced features. This book then covers other pro-level features, including formatted output, file handling, and more. Additionally, you'll learn and explore the most useful built-in variables, pragmas, and modules available in the Perl language. Furthermore, you'll work with geometry managers and get a thorough treatment of graphical user interface development using Perl/TK and widgets. Lastly, you'll cover debugging techniques. Pro Perl Programming is a professional-level reference guide on Perl and includes important aspects of it that you need as a professional programmer. What You Will Learn

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Program regular expressions including atoms, smartmatch operators, and more Use advanced features such as HiRes Time, slurp() functions, Critic, Tidy and many more functions Handle advanced formatted output such as printf and sprintf Explore useful built-in variables, including status variables, separator variables, and the signal handle variable Explore and use Perl's built-in modules, including the Pragma modules Work with Perl/TK and its widgets-like geometry managers, frames, labels, buttons, check buttons, radio buttons, scrollbars, scales, entries, and menus Who This Book Is For Those with at least some prior experience with Perl programming or have read Beginning Perl Programming by William Rothwell.

Full of practical examples and updated for the latest version of Perl, version 5.6.0, this acclaimed introductory guide explains how to harness the power of Perl in heterogeneous UNIX-Windows-Linux environments, from automating applications and network functions to creating GUIs and interactive Web pages. The CD-ROM includes ActivePerl for Windows, the Perl source code, sample code and scripts, and useful Perl tools.

The Art of UNIX Programming  
Mastering Algorithms with Perl  
Perl & LWP  
Mastering Perl/Tk  
Advanced Perl Programming

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## Learning Perl on Win32 Systems

This book includes full documentation for Tkinter, and also offers extensive examples for many real-world Python/Tkinter applications that will give programmers a quick start on their own projects.

Free Open Source Software have been growing enormously in the field of information technology. Open Source Software (OSS) is a software whose source code is accessible for alteration or enrichment by other programmers. This book gives a detailed analysis of open source software and their fundamentals, and so is meant for the beginners who want to learn and write programs using Open Source Software. It also educates on how to download and instal these open source free software in the system. The topics covered in the book broadly aims to develop familiar Open Source Software (OSS) associated with database, web portal and scientific application development. Software platforms like, Android, MySQL, PHP, Python, PERL, Grid Computing, and Open Source Cloud, and their applications are explained through various examples and programs. The platforms like OSS and Linux are also introduced in the book. Recapitulation given at the end of each chapter enables the readers to take a quick revision of the topics. Numerous examples in the form of programs are given to enable the students to understand the theoretical concepts and their applicative knowledge. The book is an introductory textbook on Open Source Software (OSS) for the undergraduate students of Computer Science Engineering (CSE) and postgraduate students of Computer Application (MCA). Salient Features The procedure for installing software (Linux, Android, PHP, MySQL, Perl, and Python) both in Linux and Windows operating systems are discussed in the book. • Numerous worked out example programs are introduced. • Inclusion of several questions

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drawn from previous question papers in chapter-end exercises.

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.

Perl/Tk is the marriage of the Tk graphical toolkit with Perl, the powerful programming language used primarily for system

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administration, web programming, and database manipulation. With Perl/Tk, you can build Perl programs with an attractive, intuitive GUI interface with all the power of Perl behind it. Mastering Perl/Tk is the "bible" of Perl/Tk: It's not only a great book for getting started, but the best reference for learning the techniques of experienced Perl/Tk programmers. The first half of the book contains the basics on how to use Perl/Tk, and then branches out into advanced applications with a series of extensive program examples. The result is a book accessible for novices, and invaluable for experienced programmers ready to learn the next step in the elegant and effective use of Perl/Tk. The book includes: An introduction to each of the basic Perl/Tk widgets and geometry managers A dissection of the MainLoop, including how to use callbacks and bindings effectively Coverage of the Tix widgets, an extended set of widgets that are a part of the standard Perl/Tk distribution Working with images in Perl/Tk, including bitmaps, pixmapes, photos, and how to compose a compound image type How to create custom mega-widgets in Perl/Tk, both composite and derived Handling interprocess communication with Perl/Tk, both with standard Unix utilities (pipes and sockets) and with the send command designed for direct communication between Tk applications Developing your own Tk widget in the C language Examples of web applications written with Perl/Tk and the LWP library The book also includes appendices on installing Perl/Tk, a complete quick-reference for each standard widget, and listings of all the extended examples in the book. Nancy Walsh is the author of Learning Perl/Tk, and Steve Lidie wrote the Perl/Tk Pocket Reference as well as a series of Perl/Tk articles in The Perl Journal. Together, they have written Mastering Perl/Tk to be the definitive guide to Perl/Tk.

Cross-Platform Perl

FUNDAMENTALS OF OPEN SOURCE SOFTWARE

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C++

Learning Perl

Pro Perl Programming

Perl/Tk Pocket Reference

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

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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

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.

Provides readers with the methods, algorithms, and means to perform text mining tasks This book is devoted to the fundamentals of text mining using Perl, an open-source programming tool that is freely available via the Internet ([www.perl.org](http://www.perl.org)). It covers mining ideas from several perspectives--statistics, data mining, linguistics, and information retrieval--and provides readers with the means to successfully complete text mining tasks on their own. The book begins with an introduction to regular expressions, a text pattern methodology, and quantitative text summaries, all of which are fundamental tools of analyzing text. Then, it builds upon this foundation to explore:

Probability and texts, including the bag-of-words model Information retrieval techniques such as the TF-IDF similarity measure Concordance lines and corpus linguistics Multivariate techniques such as correlation, principal components analysis, and clustering Perl modules, German, and permutation tests Each chapter is devoted to a single key topic, and the author carefully and thoughtfully introduces mathematical concepts as they arise, allowing readers to learn as they

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go without having to refer to additional books. The inclusion of numerous exercises and worked-out examples further complements the book's student-friendly format. Practical Text Mining with Perl is ideal as a textbook for undergraduate and graduate courses in text mining and as a reference for a variety of professionals who are interested in extracting information from text documents.

A Desktop Quick Reference  
Practical Programming in Tcl/Tk  
Practical Text Mining with Perl  
Mastering Perl  
Modern Perl Programming  
Perl for C Programmers

A majority of the people who start using Perl for the first time have a background in the C or C++ programming language. This book is written for those people. "Perl for C Programmers" teaches what's similar and different between Perl and C/C++ and how to then utilize Perl to the fullest.

Programming Graphical User Interfaces with R introduces each of the major R packages for GUI programming: RGtk2, qtbase, Tcl/Tk, and gWidgets. With examples woven through the text as well as stand-alone demonstrations of simple yet reasonably complete applications, the book features topics especially relevant to statisticians who aim to provide a practical interface to functionality implemented in R. The book offers: A how-to guide for developing GUIs within R The fundamentals

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for users with limited knowledge of programming within R and other languages GUI design for specific functions or as learning tools The accompanying package, ProgGUlinR, includes the complete code for all examples as well as functions for browsing the examples from the respective chapters. Accessible to seasoned, novice, and occasional R users, this book shows that for many purposes, adding a graphical interface to one ' s work is not terribly sophisticated or time consuming.

Written for biomedical professionals and hospital practitioners interested in creating their own programs, Perl Programming for Medicine and Biology, discusses and reviews biomedical data resources, data standards, data organization, medicolegal and ethical conduct for data miners, and grants-related data sharing responsibilities. It teaches readers the basic Perl programming skills necessary for collecting, analyzing, and distributing biomedical data and provides solutions to in-depth problems that face researchers and healthcare professionals. Non-technical "Background" sections open each chapter to help non-programmers easily comprehend programming procedures. Explanations are provided for the biomedical issues underlying the Perl scripts that follow, and examples of real-world implementation are provided. Perl Programming for Medicine and Biology will show you how to transform, merge, and examine large and complex databases with ease.

The Art of UNIX Programming poses the belief that

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understanding the unwritten UNIX engineering tradition and mastering its design patterns will help programmers of all stripes to become better programmers. This book attempts to capture the engineering wisdom and design philosophy of the UNIX, Linux, and Open Source software development community as it has evolved over the past three decades, and as it is applied today by the most experienced programmers. Eric Raymond offers the next generation of "hackers" the unique opportunity to learn the connection between UNIX philosophy and practice through careful case studies of the very best UNIX/Linux programs.

Mastering Perl for Bioinformatics

Perl in a Nutshell

Writing Better Programs with Tcl and Tk

A Little Book on Perl

Maximum PC

Develop responsive and powerful GUI applications with Tkinter

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, modperl, and new

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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 modperl 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.

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Find out how to create visually stunning and feature-rich applications by empowering Python's built-in Tkinter GUI toolkit

### Key Features

Explore Tkinter's powerful features to easily design and customize your GUI application

### Learn the basics of 2D and 3D animation in GUI applications.

Learn to integrate stunning Data Visualizations using Tkinter Canvas and Matplotlib.

### Book Description

Tkinter is a lightweight, portable, and easy-to-use graphical toolkit available in the Python Standard Library, widely used to build Python GUIs due to its simplicity and availability. This book teaches you to design and build graphical user interfaces that are functional, appealing, and user-friendly using the powerful combination of Python and Tkinter. After being introduced to Tkinter, you will be guided step-by-step through the application development process. Over the course of the book, your application will evolve from a simple data-entry form to a complex data management and visualization tool while maintaining a clean and robust design. In addition to building the GUI, you'll learn how to connect to external databases and network resources, test your code to avoid errors, and maximize performance using asynchronous programming. You'll make the most of Tkinter's cross-platform availability by learning how to maintain compatibility, mimic platform-native look and feel, and build executables for deployment across popular computing platforms. By the end of

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this book, you will have the skills and confidence to design and build powerful high-end GUI applications to solve real-world problems. What you will learn

- Implement the tools provided by Tkinter to design beautiful GUIs
- Discover cross-platform development through minor customizations in your existing application
- Visualize graphs in real time as data comes in using Tkinter's animation capabilities
- Use PostgreSQL authentication to ensure data security for your application
- Write unit tests to avoid regressions when updating code

Who this book is for

This book will appeal to developers and programmers who would like to build GUI-based applications. Knowledge of Python is a prerequisite.

Practical Programming in Tcl/Tk, 4th edition

Authoritative coverage of every Tcl and Tk command in the core toolkits

State-of-the-art Tk GUI coverage for Tcl, Perl, Python, and Ruby developers

Covers all key Tcl 8.4 enhancements: VFS, internationalization and performance improvements, new widgets, and much more

Covers multi-threaded Tcl applications and Starkits, a revolutionary way to package and deploy Tcl applications

The world's #1 guide to Tcl/Tk has been thoroughly updated to reflect Tcl/Tk8.4's powerful improvements in functionality, flexibility, and performance!

Brent Welch, Ken Jones, and Jeffrey Hobbs, three of the world's leading Tcl/Tk experts, cover every facet of Tcl/Tk programming, including cross-platform

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scripting and GUI development, networking, enterprise application integration, and much more. Coverage includes: Systematic explanations and sample code for all Tcl/Tk 8.4 core commands Complete Tk GUI development guidance--perfect for developers working with Perl, Python, or Ruby Insider's insights into Tcl 8.4's key enhancements: VFS layer, internationalized font/character set support, new widgets, and more Definitive coverage of TclHttpd web server--written by its creator New ways to leverage Tcl/Tk 8.4's major performance improvements Advanced coverage: threading, Safe Tcl, Tcl script library, regular expressions, and namespaces Whether you're upgrading to Tcl/Tk 8.4, or building GUIs for applications created with other languages, or just searching for a better cross-platform scripting solution, Practical Programming in Tcl and Tk, Fourth Edition delivers all you need to get results!

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).

Database programming with Perl

The Core Language

Sams Teach Yourself Tcl/Tk in 24 Hours

Perl for Oracle DBAs

Impatient Perl

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### Solutions & Examples for Perl Programmers

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

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handles Debugging techniques Coverage of each existing DBD A complete reference to DBI This is the definitive book for database programming in Perl.

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

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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

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. 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. Perl Programming for Bioinformatics Web, Graphics & Perl/Tk Programming

Perl Programming for Medicine and Biology  
Fetching Web Pages, Parsing HTML, Writing  
Spiders & More

Python GUI Programming with Tkinter  
From Professional to Advanced

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.

Introduces a smooth, carefully paced course, leading Perl trainers and Windows NT practitioners in the language that promises to emerge as the scripting language of choice for NT, a language used to manipulate texts, files, and user and group profiles. Original. (Intermediate).

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

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Perl doesn't report Dive into logging, data persistence, and the magic of tied variables

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,

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this book is a must for any reader wanting to move beyond beginner level Perl in bioinformatics.

Learning Perl/Tk

Programming the Perl DBI

Effective Tcl/Tk Programming

Perl Graphics Programming

Perl Cookbook

Creating Professional Programs with Perl

*Covers Tcl expressions, control structures, lists and arrays, widgets, using Tk with Perl and C, and creating user interfaces and Web applications with Tcl*

*You need a graphical user interface, and it needs to run on multiple platforms. You don't have much time, and you're not a wizard with X/Motif, the Win32 GUI, or the Mac GUI. The project seems impossible, but with Tcl/Tk it's simple and fun. The Tcl scripting language and the Tk toolkit create a powerful programming environment for building graphical user interfaces. With two lines of code you can create a simple button; with two hundred lines of code, a desktop calculator; and with a thousand lines of code, an industrial-strength groupware calendar and appointment minder. Your applications run on all of the major platforms: UNIX, Windows 95/NT, and Macintosh. You can even embed your programs in a Web page to make them available online. Mark Harrison and Michael McLennan, two noted Tcl/Tk experts, combine their extensive experience in this practical programming guide. It is ideal for developers who are acquainted with the basics of Tcl/Tk and are now moving on to build real applications.*

*Effective Tcl/Tk Programming shows you how to build Tcl/Tk applications effectively and efficiently through plenty of real-world advice. It clarifies some of the more powerful aspects of Tcl/Tk, such as the packer, the canvas widget, and binding tags. The authors describe valuable design strategies and coding techniques that will make your Tcl/Tk projects successful. You will learn how to: Create interactive displays with the canvas widget Create*

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*customized editors with the text widget Create new geometry managers, like tabbed notebooks or paned windows Implement client/server architectures Handle data structures Interface with existing applications Package Tcl/Tk code into reusable libraries Deliver Tcl/Tk applications that are easy to configure and install Embed applications in a Web page Build applications that will run on multiple platforms Throughout the book, the authors develop numerous applications and a library of reusable components. Learn from their approach, follow their strategies, and steal their code for your own applications! But don't bother retyping all of the examples.* 0201634740B04062001

*The Perl/Tk Pocket Reference is a companion volume to Learning Perl/Tk, an O'Reilly Animal Guide. Learning Perl/Tk is a tutorial for Perl/Tk, the extension to Perl for creating graphical user interfaces. With Tk, Perl programs can be window-based rather than command-line based, with buttons, entry fields, listboxes, menus, scrollbars, balloons, tables, dialogs, and more. And Perl/Tk programs run on UNIX and Windows-based computers. This small book is a handy reference guide geared toward the advanced Perl/Tk programmer. Novice Perl/Tk programmers will find that its compact size gives them a global view of Perl/Tk's capabilities; they can then turn to Learning Perl/Tk for details. The Perl/Tk Pocket Reference describes every Perl/Tk graphical element, including general widget and variable information, callbacks, geometry management, bindings, events, and window management, as well as composite widget, font, and image creation and manipulation commands.*

*This insightful volume focuses on scripting programmers to manipulate graphics for the Web. The book documents new ways to use Perl modules for generating graphics.*

*Computer Science & Perl Programming  
Programming Perl in the .NET Environment  
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## *The Moving Target*

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 first book for C programmers transitioning to C++, an object-oriented enhancement of the C programming language. Designed to get readers up to speed quickly, this book thoroughly explains the important concepts and features and gives brief overviews of the rest of the language. Covers features common to all C++ compilers, including those on UNIX, Windows NT, Windows, DOS, and Macs

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