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For Unix And Linux People

Minimal Perl For Unix And Linux People

A Python community leader teaches professionals how to integrate web applications with Python.

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.

Provides information on creating live Linux CDs for gaming, security, presentations, multimedia, firewalls, and

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clustering.

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 6th edition covers recent changes to the language up to version 5.14. 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

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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 Hackers Beware Unix Power Tools Cryptography for Secure

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Communications

Tips & Tools for Bidding, Buying, and Selling

Standards and Styles for

Developing Maintainable Code

Perl Best Practices

* The Definitive Guide to Apache, Third Edition is a new revision of Peter Wainwright ' s best-selling (actually, the highest-selling) book on Apache configuration and administration.

* Provides multiple methods and examples of how to solve a particular problem; compares and contrasts the methods rather than recommending a single, "best" solution. * Demonstrates how to use many of the most-

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popular scripting languages such as PHP, Perl, and Python to create dynamic web sites.

Provides information on creating a variety of Perl utilities.

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

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updated for Perl 5.8, with extensive changes for Unicode support, I/O layers, modperl, 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

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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

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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.

This complete guide to the Perl programming language ranges widely through the Perl programmer's universe, gathering together in a

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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

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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

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this book: Basic Perl reference
Quick reference to built-in
functions and standard modules
CGI.pm and modperl 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

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make the easy jobs easy, without making the hard jobs impossible."-- Larry Wall, creator of Perl

Perl Hacks

Live Linux CDs

Perl

Learning Perl

Network Security with OpenSSL

Presents a collection of tips and techniques for getting the most out of eBay.

No-nonsense and practical, yet with wit and charm. A joy to read." " -Dan Sanderson, Software Developer, Amazon.com " "Shows

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style, not just facts-
valuable." -Brian

Downs, former Training
Director, Lucent
Technologies

"Brilliant, never
tedious-highly

recommended!" -Jon

Allen, Maintainer of
perldoc.perl.org "You

could have chosen no
better primer than this

book." -Damian Conway,
from the Foreword Perl

is a complex language
that can be difficult to

master. Perl advocates
boast that "There's

More Than One Way To Do

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It, "" but do you really want to learn several ways of saying the same thing to a computer? To make Perl more accessible, Dr. Tim Maher has over the years designed and taught an essential subset of the language that is smaller, yet practical and powerful. With this engaging book you can now benefit from ""Minimal Perl, "" even if all you know about Unix is grep. You will learn how to write simple Perl commands-

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many just one-liners—that go far beyond the limitations of Unix utilities, and those of Linux, MacOS/X, etc. And you'll acquire the more advanced Perl skills used in scripts by capitalizing on your knowledge of related Shell resources.

Sprinkled throughout are many Unix-specific Perl tips. This book is especially suitable for system administrators, webmasters, and software developers.

Many programmers code by

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instinct, relying on convenient habits or a "style" they picked up early on. They aren't conscious of all the choices they make, like how they format their source, the names they use for variables, or the kinds of loops they use. They're focused entirely on problems they're solving, solutions they're creating, and algorithms they're implementing. So they write code in the way that seems natural, that happens

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intuitively, and that feels good. But if you're serious about your profession, intuition isn't enough. Perl Best Practices author Damian Conway explains that rules, conventions, standards, and practices not only help programmers communicate and coordinate with one another, they also provide a reliable framework for thinking about problems, and a common language for expressing solutions.

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This is especially critical in Perl, because the language is designed to offer many ways to accomplish the same task, and consequently it supports many incompatible dialects. With a good dose of Aussie humor, Dr. Conway (familiar to many in the Perl community) offers 256 guidelines on the art of coding to help you write better Perl code--in fact, the best Perl code you possibly can. The guidelines cover code

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layout, naming conventions, choice of data and control structures, program decomposition, interface design and implementation, modularity, object orientation, error handling, testing, and debugging. They're designed to work together to produce code that is clear, robust, efficient, maintainable, and concise, but Dr. Conway doesn't pretend that this is the one true universal and

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unequivocal set of best practices. Instead, Perl Best Practices offers coherent and widely applicable suggestions based on real-world experience of how code is actually written, rather than on someone's ivory-tower theories on how software ought to be created. Most of all, Perl Best Practices offers guidelines that actually work, and that many developers around the world are already using. Much like Perl itself, these guidelines

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are about helping you to get your job done, without getting in the way. Praise for Perl Best Practices from Perl community members: "As a manager of a large Perl project, I'd ensure that every member of my team has a copy of Perl Best Practices on their desk, and use it as the basis for an in-house style guide."-- Randal Schwartz "There are no more excuses for writing bad Perl programs. All levels of Perl programmer will be more

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productive after reading this book."-- Peter Scott "Perl Best Practices will be the next big important book in the evolution of Perl. The ideas and practices Damian lays down will help bring Perl out from under the embarrassing heading of "scripting languages". Many of us have known Perl is a real programming language, worthy of all the tasks normally delegated to Java and C++. With Perl Best Practices, Damian

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shows specifically how and why, so everyone else can see, too."-- Andy Lester "Damian's done what many thought impossible: show how to build large, maintainable Perl applications, while still letting Perl be the powerful, expressive language that programmers have loved for years."-- Bill Odom "Finally, a means to bring lasting order to the process and product of real Perl development teams."-- Andrew

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Sundstrom "Perl Best Practices provides a valuable education in how to write robust, maintainable Perl, and is a definitive citation source when coaching other programmers."--
Bennett Todd "I've been teaching Perl for years, and find the same question keeps being asked: Where can I find a reference for writing reusable, maintainable Perl code? Finally I have a decent answer."--
Paul Fenwick "At last a well researched, well

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thought-out,
comprehensive guide to
Perl style. Instead of
each of us developing
our own, we can learn
good practices from one
of Perl's most prolific
and experienced authors.
I recommend this book to
anyone who prefers
getting on with the job
rather than going back
and fixing errors caused
by syntax and poor style
issues."-- Jacinta
Richardson
"If you care
about programming in any
language read this book.
Even if you don't intend

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to follow all of the practices, thinking through your style will improve it."-- Steven Lemark

"The Perl community's best author is back with another outstanding book. There has never been a comprehensive reference on high quality Perl coding and style until Perl Best Practices. This book fills a large gap in every Perl bookshelf."-- Uri Guttman

Surveys the best practices for all

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aspects of system administration, covering such topics as storage management, email, Web hosting, performance analysis, virtualization, DNS, security, and configuration management.

Perl for Unix and Linux

EBay Hacks

Minimal Perl

130 Programs That Get Things Done

Web Server Technology

Pro Apache

The book has an introductory chapter that gets the reader

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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 POST forms, handle cookies

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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

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used to write closures and can be composed to form more complex functions. In particular, this can be useful for programming in artificial intelligence.

Most applications these days are at least somewhat network aware, but how do you protect those applications against common network security threats? Many developers are turning to OpenSSL, an open source version of SSL/TLS, which is the most widely used protocol for secure network communications. The OpenSSL library is seeing widespread adoption for web sites that require cryptographic functions to protect a broad range of sensitive information, such as credit card numbers and other financial transactions. The

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library is the only free, full-featured SSL implementation for C and C++, and it can be used programmatically or from the command line to secure most TCP-based network protocols. Network Security with OpenSSL enables developers to use this protocol much more effectively. Traditionally, getting something simple done in OpenSSL could easily take weeks. This concise book gives you the guidance you need to avoid pitfalls, while allowing you to take advantage of the library's advanced features. And, instead of bogging you down in the technical details of how SSL works under the hood, this book provides only the information that is necessary to use OpenSSL

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safely and effectively. In step-by-step fashion, the book details the challenges in securing network communications, and shows you how to use OpenSSL tools to best meet those challenges. As a system or network administrator, you will benefit from the thorough treatment of the OpenSSL command-line interface, as well as from step-by-step directions for obtaining certificates and setting up your own certification authority. As a developer, you will further benefit from the in-depth discussions and examples of how to use OpenSSL in your own programs. Although OpenSSL is written in C, information on how to use OpenSSL with Perl, Python and PHP is also

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included. OpenSSL may well answer your need to protect sensitive data. If that's the case, Network Security with OpenSSL is the only guide available on the subject.

The success of the web depends not only on the creation of stimulating and valuable information, but also on the speed, efficiency and convenient delivery of this information to the Web consumer. This authoritative presentation of web server technology takes you beyond the basics to provide the underlying principles and technical details of how WWW servers really work. It explains current technology and suggests enhanced and expanded methods for disseminating information via the Web.

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Features: Covers measurement of WWW component performance--the networks, server hardware, and operating systems--and suggests alternative Web server software designs for improving performance. Explains the costs and benefits of mirroring and caching Web documents. Surveys the web's current search tools and uses the library system as a model layout to illustrate indexing, searching, and retrieval techniques. Assesses web security hazards and presents mechanisms for combating these vulnerabilities, including an in-depth discussion of firewalls. Analyzes the risks and explains the technologies used in a variety of services available for making monetary

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transactions online.

This comprehensive tome explores all aspects of the latest technology craze-Internet programming. Programmers will turn to the proven expertise of the Unleashed series for accurate, day-and-date information on this hot new programming subject.

Perl One-Liners

Developer's Toolkit

Perl 5 Unleashed

UNIX and Linux System

Administration Handbook

UNIX and Perl to the Rescue!

The British National Bibliography

Explains how and why hackers break into computers, steal information, and deny services to machines' legitimate users, and discusses strategies and tools used by hackers and how to defend against them.

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Provides advice on ways to ensure network security, covering such topics as DNS, Apache web server, OpenLDAP, email encryption, Cyrus IMAP service, and FTP server.

Oracle Corporation has broadened its development platform, integrating open standards such as Java and XML into the heart of the Oracle 8i database. This extended programming environment continues to exploit the qualities of scalability, reliability and efficiency of the world's most successful data management software, but at the same time it provides new challenges and opportunities to programmers.

With the growing popularity of Linux and the advent of Darwin, Unix has metamorphosed into something new and exciting. No longer perceived as a difficult operating system, more and more users are discovering the advantages of Unix for the

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first time. But whether you are a newcomer or a Unix power user, you'll find yourself thumbing through the goldmine of information in the new edition of Unix Power Tools to add to your store of knowledge. Want to try something new? Check this book first, and you're sure to find a tip or trick that will prevent you from learning things the hard way. The latest edition of this best-selling favorite is loaded with advice about almost every aspect of Unix, covering all the new technologies that users need to know. In addition to vital information on Linux, Darwin, and BSD, Unix Power Tools 3rd Edition now offers more coverage of bash, zsh, and other new shells, along with discussions about modern utilities and applications. Several sections focus on security and Internet access. And there is a new chapter on access to Unix from Windows, addressing the heterogeneous

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nature of systems today. You'll also find expanded coverage of software installation and packaging, as well as basic information on Perl and Python. Unix Power Tools 3rd Edition is a browser's book...like a magazine that you don't read from start to finish, but leaf through repeatedly until you realize that you've read it all. Bursting with cross-references, interesting sidebars explore syntax or point out other directions for exploration, including relevant technical details that might not be immediately apparent. The book includes articles abstracted from other O'Reilly books, new information that highlights program tricks and gotchas, tips posted to the Net over the years, and other accumulated wisdom. Affectionately referred to by readers as "the" Unix book, UNIX Power Tools provides access to information every Unix user is going to need to know. It will help you think

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creatively about UNIX, and will help you get to the point where you can analyze your own problems. Your own solutions won't be far behind.

The Internet Encyclopedia

An Introduction to Programming Tools for
Life Scientists

Computerworld

Professional Apache

Building Secure Servers with Linux

The Internet Encyclopedia, Volume 3 (P -
Z)

**Covering the most recent
version of the Perl
programming language, this
detailed manual explains how
to manipulate text, generate
reports, and perform system
tasks using Perl 5 and
provides tips on creating Perl
scripts for use with World
Wide Web pages. Original.**

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(Advanced).

**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**

**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**

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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

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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

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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 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. Containing the complete CPAN as well as other Perl resources, the CD-ROM in this set was created by the author because there were no other products available that he

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recommended. Printed materials include the complete documentation on the 150 most important Perl modules.

Useful Perl Scripts that Solve Difficult Problems

For Unix and Linux People

Unmatched Power for Text Processing and Scripting

Perl Cookbook

Perl in a Nutshell

Sams Teach Yourself Perl in 21 Days

Minimal Perl For Unix and Linux People
Manning Publications

Linux consistently turns up high in the list of popular Internet servers, whether it's

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for the Web, anonymous FTP, or general services like DNS and routing mail. But security is uppermost on the mind of anyone providing such a service. Any server experiences casual probe attempts dozens of time a day, and serious break-in attempts with some frequency as well. As the cost of broadband and other high-speed Internet connectivity has gone down, and its availability has increased, more Linux users are providing or

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considering providing Internet services such as HTTP, Anonymous FTP, etc., to the world at large. At the same time, some important, powerful, and popular Open Source tools have emerged and rapidly matured--some of which rival expensive commercial equivalents--making Linux a particularly appropriate platform for providing secure Internet services. Building Secure Servers with Linux will help you

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master the principles of reliable system and network security by combining practical advice with a firm knowledge of the technical tools needed to ensure security. The book focuses on the most common use of Linux--as a hub offering services to an organization or the larger Internet--and shows readers how to harden their hosts against attacks. Author Mick Bauer, a security consultant, network architect, and lead

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author of the popular Paranoid Penguin column in Linux Journal, carefully outlines the security risks, defines precautions that can minimize those risks, and offers recipes for robust security. The book does not cover firewalls, but covers the more common situation where an organization protects its hub using other systems as firewalls, often proprietary firewalls. The book includes: Precise

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directions for securing common services, including the Web, mail, DNS, and file transfer. Ancillary tasks, such as hardening Linux, using SSH and certificates for tunneling, and using iptables for firewalling. Basic installation of intrusion detection tools. Writing for Linux users with little security expertise, the author explains security concepts and techniques in clear language, beginning with the

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fundamentals. Building Secure Servers with Linux provides a unique balance of "big picture" principles that transcend specific software packages and version numbers, and very clear procedures on securing some of those software packages. An all-inclusive resource for Linux users who wish to harden their systems, the book covers general security as well as key services such as DNS, the Apache Web server, mail, file transfer, and

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secure shell. With this book in hand, you'll have everything you need to ensure robust security of your Linux system.

The seeds of this book were sown many years ago, when I was building up my knowledge of Perl, the greatest programming language I'd ever encountered (before or since). While reading a variety of books on the subject, I was surprised that the authors felt obliged to delve into so many of the

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different but equivalent choices for expressing every basic operation in the language, as well as each of the syntactic variations for expressing any one of those choices. As an example, I've shown here some of the available choices for expressing in Perl the simple idea that B should be executed only if A is True (with those letters representing arbitrary program elements). Both forward and backward

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*variations forexpressing
the dependency are
included.Part 1: Perl
for UNIX and Linux
usersPart 1 gives those
with at least user-level
Unix skills--which
includes even the
mostadvanced
programmers--a gentle
introduction to the core
elements of Minimal
Perl.After reading it,
you'll be able to write
custom programs to do
the most common typesof
data-processing
tasks.You're assumed to
be familiar with the*

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most basic commands, file-management techniques, and command formats used on Unix systems. For example, you should know how to view the contents of text files, how to change the current directory without getting lost, and how to use the grep command to extract matching lines from a file. Readers with more extensive backgrounds in Shell programming can especially benefit from part 2. Part 2: Perl for UNIX and Linux Shell programmers Part 2 helps

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Shell programmers capitalize on their specialized knowledge to quickly acquire Perl skills that go beyond those learned in part 1. A basic understanding of Shell variables, I/O techniques, flow-control facilities, and other fundamental features of the Bourne, Korn, Bash, or POSIX shells is assumed. If you lack this more advanced knowledge, you may still benefit from this material after assimilating the lessons of part 1. But you

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*should focus on the Perl
syntax*

*descriptions, rather than
the Shell-to-Perl
translation aids (which
aren't designed for
your use). The same
advice holds for
programmers who
specialize in the C
shell, which
is fundamentally
different from the
Shells emphasized in
this book. We'll discuss
the book's other
resources next.*

*A text focusing on the
methods and alternatives*

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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

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*; Chat problems ;
Internet Message Access
Protocol (IMAP) issues ;
Markup-language parsing
; Internet Protocol (IP)
broadcasting and
multicasting.*

*A Desktop Quick
Reference*

Wicked Cool Perl Scripts

*Perl for System
Administration*

*The Art of UNIX
Programming*

Linux Server Security

Programming Perl

With the arrival of genomics and genome sequencing projects, biology has been transformed into an incredibly data-rich

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science. The vast amount of information generated has made computational analysis critical and has increased demand for skilled bioinformaticians. Designed for biologists without previous programming experience, this textbook provides a hands-on introduction to Unix, Perl and other tools used in sequence bioinformatics. Relevant biological topics are used throughout the book and are combined with practical bioinformatics examples, leading students through the process from biological problem to computational solution. All of the Perl scripts, sequence and database files used in the book are available for download at the accompanying website, allowing the reader to easily follow each example using their own computer. Programming examples are kept at an introductory level, avoiding complex mathematics that students often find daunting. The book demonstrates that even simple programs can provide

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powerful solutions to many complex bioinformatics problems.

"Learning Perl, better known as "the Llama book," starts the programmer on the way to mastery. Written by three prominent members of the Perl community who each have several years of experience teaching Perl around the world, this edition has been updated to account for all the recent changes to the language up to Perl 5.8. Perl is the language for people who want to get work done. It started as a tool for Unix system administrators who needed something powerful for small tasks. Since then, Perl has blossomed into a full-featured programming language used for web programming, database manipulation, XML processing, and system administration--on practically all platforms--while remaining the favorite tool for the small daily tasks it was designed for. You might start using Perl because you need it, but you'll continue to

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use it because you love it. Informed by their years of success at teaching Perl as consultants, the authors have re-engineered the Llama to better match the pace and scope appropriate for readers getting started with Perl, while retaining the detailed discussion, thorough examples, and eclectic wit for which the Llama is famous. The book includes new exercises and solutions so you can practice what you've learned while it's still fresh in your mind. Here are just some of the topics covered: Perl variable types subroutines file operations regular expressions text processing strings and sorting process management using third party modules 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 point to the Llama. With good reason. Other books may teach you to program in Perl, but this book will turn you into a Perl programmer.

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'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.

Praise for the First Edition: "This outstanding book ... gives the reader robust concepts and implementable knowledge of this environment. Graphical user interface (GUI)-based users and developers do not get short shrift, despite the command-line interface 's (CLI) full-power treatment. ... Every programmer should read the introduction 's Unix/Linux philosophy section. ... This authoritative and exceptionally well-constructed book has my highest recommendation. It will repay careful and recursive study." --Computing Reviews, August 2011 Mastering Modern Linux, Second Edition retains much of the good material from the previous edition,

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with extensive updates and new topics added. The book provides a comprehensive and up-to-date guide to Linux concepts, usage, and programming. The text helps the reader master Linux with a well-selected set of topics, and encourages hands-on practice. The first part of the textbook covers interactive use of Linux via the Graphical User Interface (GUI) and the Command-Line Interface (CLI), including comprehensive treatment of the Gnome desktop and the Bash Shell. Using different apps, commands and filters, building pipelines, and matching patterns with regular expressions are major focuses. Next comes Bash scripting, file system structure, organization, and usage. The following chapters present networking, the Internet and the Web, data encryption, basic system admin, as well as Web hosting. The Linux Apache MySQL/MariaDB PHP (LAMP) Web hosting combination is also presented

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in depth. In the last part of the book, attention is turned to C-level programming. Topics covered include the C compiler, preprocessor, debugger, I/O, file manipulation, process control, inter-process communication, and networking. The book includes many examples and complete programs ready to download and run. A summary and exercises of varying degrees of difficulty can be found at the end of each chapter. A companion website (<http://mml.sofpower.com>) provides appendices, information updates, an example code package, and other resources for instructors, as well as students.

Perl for Students and Professionals

Genomics and Bioinformatics

Building and Customizing Bootables

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Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

The Art of UNIX Programming poses the belief that 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

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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.

Introduces the programming language to beginners and provides a Perl language reference for experienced users, covering operators, statements, formats, modules, objects, threads, tied variables, debugging, and security.

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.

On Perl

Tips & Tools for Programming,

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Debugging, and Surviving

Mastering Modern Linux

A Field Guide for the Life Sciences
(and Other Data-rich Pursuits)

Web Programming Unleashed

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

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list of users on a system. This cookbook of useful, customizable, and fun scripts will even help hone your Perl coding skills, as Krumins dissects the code to give you a deeper understanding of the language. You'll find one-liners that:

- * Encode, decode, and convert strings
- * Generate random passwords
- * Calculate sums, factorials, and the mathematical constants π and e
- * Add or remove spaces
- * Number lines in a file
- * Print lines that match a specific pattern
- * Check to see if a number is prime with a regular expression
- * Convert IP address to decimal form
- * Replace one string with another

And many more! Save time and

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sharpen your coding skills as you learn to conquer those pesky tasks in a few precisely placed keystrokes with Perl One-Liners.

The Internet Encyclopedia in a 3-volume reference work on the internet as a business tool, IT platform, and communications and commerce medium.

Your research has generated gigabytes of data and now you need to analyse it. You hate using spreadsheets but it is all you know, so what else can you do? This book will transform how you work with large and complex data sets, teaching you powerful programming tools for slicing and dicing data to suit your needs. Written in a fun and

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accessible style, this step-by-step guide will inspire and inform non-programmers about the essential aspects of Unix and Perl. It shows how, with just a little programming knowledge, you can write programs that could save you hours, or even days. No prior experience is required and new concepts are introduced using numerous code examples that you can try out for yourself. Going beyond the basics, the authors touch upon many broader topics that will help those new to programming, including debugging and how to write in a good programming style.