

# Teach Yourself Unix

In just 24 sessions of one hour or less, learn how to use today's key networking techniques and technologies to build, secure, and troubleshoot both wired and wireless networks. Using this book's straightforward, step-by-step approach, you master every skill you need—from working with Ethernet and Bluetooth to spam prevention to network troubleshooting. Each lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common networking tasks. Q&A sections at the end of each hour help you test your knowledge. By the Way notes present interesting information related to the discussion. Did You Know? tips offer advice or show you easier ways to perform tasks. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. Learn how to... Choose the right network hardware and software and use it to build efficient, reliable networks Implement secure, high-speed Internet connections Provide reliable remote access to your users Administer networks to support users of Microsoft, Linux, and UNIX environments Use low-cost Linux servers to provide file and print services to Windows PCs Protect your networks and data against today's most dangerous threats Use virtualization to save

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money and improve business flexibility Utilize RAID technologies to provide flexible storage at lower cost Troubleshoot and fix network problems one step at a time Preview and prepare for the future of networking

O'Reilly's bestselling book on Linux's bash shell is at it again. Now that Linux is an established player both as a server and on the desktop Learning the bash Shell has been updated and refreshed to account for all the latest changes. Indeed, this third edition serves as the most valuable guide yet to the bash shell. As any good programmer knows, the first thing users of the Linux operating system come face to face with is the shell the UNIX term for a user interface to the system. In other words, it's what lets you communicate with the computer via the keyboard and display. Mastering the bash shell might sound fairly simple but it isn't. In truth, there are many complexities that need careful explanation, which is just what Learning the bash Shell provides. If you are new to shell programming, the book provides an excellent introduction, covering everything from the most basic to the most advanced features. And if you've been writing shell scripts for years, it offers a great way to find out what the new shell offers. Learning the bash Shell is also full of practical examples of shell commands and programs that will make everyday use of Linux that much easier. With this book, programmers will learn: How

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to install bash as your login shell The basics of interactive shell use, including UNIX file and directory structures, standard I/O, and background jobs Command line editing, history substitution, and key bindings How to customize your shell environment without programming The nuts and bolts of basic shell programming, flow control structures, command-line options and typed variables Process handling, from job control to processes, coroutines and subshells Debugging techniques, such as trace and verbose modes Techniques for implementing system-wide shell customization and features related to system security

Think your Mac is powerful now? This practical guide shows you how to get much more from your system by tapping into Unix, the robust operating system concealed beneath OS X's beautiful user interface. OS X puts more than a thousand Unix commands at your fingertips—for finding and managing files, remotely accessing your Mac from other computers, and using freely downloadable open source applications. If you're an experienced Mac user, this updated edition teaches you all the basic commands you need to get started with Unix. You'll soon learn how to gain real control over your system. Get your Mac to do exactly what you want, when you want Make changes to your Mac's filesystem and directories Use Unix's find, locate, and grep

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commands to locate files containing specific information Create unique "super commands" to perform tasks that you specify Run multiple Unix programs and processes at the same time Access remote servers and interact with remote filesystems Install the X Window system and learn the best X11 applications Take advantage of command-line features that let you shorten repetitive tasks This book is for all people who are forced to use UNIX. It is a humorous book--pure entertainment--that maintains that UNIX is a computer virus with a user interface. It features letters from the thousands posted on the Internet's "UNIX-Haters" mailing list. It is not a computer handbook, tutorial, or reference. It is a self-help book that will let readers know they are not alone. Introduces the UNIX environment for the Mac OS X and explains how to set up and configure the Terminal application; how to manage, create, and edit files; and how to navigate the Internet. Author and Samba Team Member Gerald Carter dedicates most of this book to the processes of installing and configuring Samba, distinguishing between both Linux/Windows, and Unix/Windows-based systems. He discusses the mechanics of file sharing across the dual platforms and expertly outlines the means necessary to remedy common problems, including helping to identify which version of Samba you are running and where to look for the

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patch or bug fix you will need to resolve it. He also assists in locating utilities like autoconf that automatically compiles a system configuration file with common default settings. Finally, he discusses security and password issues, as well as peripheral support for server printers.

"UNIX is one of the major operating systems in use today. Need to get up and running quickly? This easy-to-follow guide is just the resource you need. Using detailed explanations and real-world examples, you will have the hands-on experience you need to build a solid understanding of this robust operating system." - product description.

In just 21 days, users can go to beginner or intermediate to the capability level of performing more advanced system administrator functions. The book covers the workshop configuration for all major flavors of UNIX and fills the void other books leave by being too narrowly focused.

Explains how to log in and out of UNIX, navigate the file system, locate help, edit text, work with files within the shell, customize one's environment, access network resources, and encode and decode files.

Learn how to develop powerful and robust shell scripts in order to get the most out of your Unix/Linux system.

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

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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.

UNIX For Dummies has been the standard for beginning UNIX references for nearly ten years, and this latest edition continues that tradition of success This unparalleled resource is updated to cover the latest applications of UNIX technology, including Linux and Mac desktops as well as how UNIX works with Microsoft server software Thorough coverage of how to handle UNIX installation, file management, software, utilities, networks, Internet access, and other basic tasks Aimed at the first-time UNIX desktop user growing accustomed to the ins and outs of the OS, as well as the beginning administrator who needs to get a handle on UNIX networking basics Written by John Levine and Margaret Levine Young, longtime UNIX experts and highly experienced For Dummies authors

If you're an intermediate or advanced computer programmer looking to master Linux, then Teach Yourself Linux is your key to success. Written in jargon-free language, Teach Yourself Linux is full of cross-references, visual step-by-step procedures, and real-world applications that enable you to master the Open Source operating system that's taking the PC world by

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storm. This book helps you become proficient by explaining the following: Installing and configuring Linux, understanding Linux commands, and using text editing features Finding help and performing a full backup Navigating the Linux desktop, from the X Window system to applications Working with Microsoft Windows Connecting to the Web and using Internet tools Setting up your own Web server Building an advanced system configuration Two bonus CD-ROMs are packed with Linux software, including Red Hat Linux 6.1 and Internet access programs, as well as information on how to upgrade your Linux software.

A guide to the open-source operating system explains how to install Calder OpenLinux, configure Internet connections, work within the K Desktop environment, and maximize the potential of StarOffice

In the wake of the highly successful Sams Teach Yourself Unix in 24 Hours, this book focuses on the additional Unix commands that an advanced user or beginning system administrator needs to know in order to administer and maintain a Unix system. The book includes coverage of the key Unix variations: Red Hat Linux, Solaris, HP-UX, and Apple's Mac OS X environment. The book will not be a comprehensive solution to all problems facing new system administrators, but instead is a tutorial introduction to the process of learning about and maintaining a running Unix server.

For many users, working in the Unix environment means using vi, a full-screen text editor available on most Unix systems. Even those who know vi often make use of only

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a small number of its features. Learning the vi Editor is a complete guide to text editing with vi. Topics new to the sixth edition include multiscreen editing and coverage of four clones: vim, elvis, nvi, and vile and their enhancements to vi, such as multi-window editing, GUI interfaces, extended regular expressions, and enhancements for programmers. A new appendix describes vi's place in the Unix and Internet cultures. Quickly learn the basics of editing, cursor movement, and global search and replacement. Then take advantage of the more subtle power of vi. Extend your editing skills by learning to use ex, a powerful line editor, from within vi. For easy reference, the sixth edition also includes a command summary at the end of each appropriate chapter. Topics covered include:

- Basic editing
- Moving around in a hurry
- Beyond the basics
- Greater power with ex
- Global search and replacement
- Customizing vi and ex
- Command shortcuts
- Introduction to the clones' extensions
- Then vi, elvis, vim, and vile editors
- Quick reference to vi and ex commands
- vi and the Internet

Sams Teach Yourself C++ Programming for Linux in 21 Days teaches you the C++ programming language using the Linux operating system. You will gain a thorough understanding of the basics of C++ programming from a Linux perspective. The Bonus Week includes topics such as XWindows, KDE with QT toolkit, APE Class Library, and Real-time Middleware.

Explains how to select a Linux distribution, log on and off, compress and archive files, write basic shell



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scripts, and master the command line

This teach-yourself tutorial is designed to take readers from novices to experienced users in just seven days. All the major releases are explored, as well as UNIX features, commands, and tools, for immediate productivity in the UNIX environment. -- Covers file handling, pipes and filters, text editors, shells, and more -- Written by a UNIX expert and author of the popular UNIX electronic mail utility ELM -- Specialized information on job control, printing, and connecting to remote computers via the Internet This guide aims to simplify Emacs by organizing the program by function and platform. It not only teaches GNU Emacs but also the basics of other forms, such as XEmacs. The CD-ROM features extra tools including a FAQ section, source/binaries for Emacs, and quick reference cards.

This Nutshell Handbook® is a thorough introduction to the Korn shell, both as a user interface and as a programming language. The Korn shell, like the C and Bourne shells, is a program that interprets UNIX commands. It has many features that aren't found in other shells, including command history (the ability to recall and edit previous commands). The Korn shell is also faster; several of its features allow you to write programs that execute more quickly than their Bourne or C shell equivalents. This book provides a clear and concise explanation of the Korn shell's features. It explains ksh string operations, co-

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processes, signals and signal handling, and one of the worst "dark corners" of shell programming: command-line interpretation. It does this by introducing simple real-life examples and then adding options and complexity in later chapters, illustrating the way real-world script development generally proceeds. An additional (and unique) programming aid, a Korn shell debugger (kshdb), is also included. Learning the Korn Shell is an ideal resource for many UNIX users and programmers, including software developers who want to "prototype" their designs, system administrators who want to write tools for their own use, and even novices who just want to use some of ksh's more advanced interactive features.

Learn to use Unix, OS X, or Linux quickly and easily! In just 24 lessons of one hour or less, Sams Teach Yourself Unix in 24 Hours helps you get up and running with Unix and Unix-based operating systems such as Mac OS X and Linux. Designed for beginners with no previous experience using Unix, this book's straightforward, step-by-step approach makes it easy to learn. Each lesson clearly explains essential Unix tools and techniques from the ground up, helping you to become productive as quickly and efficiently as possible. Step-by-step instructions carefully walk you through the most common Unix tasks. Practical, hands-on examples show you how to apply what you learn. Quizzes and exercises help

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you test your knowledge and stretch your skills.  
Notes and tips point out shortcuts and solutions  
Learn how to... Pick the command shell that's best  
for you Organize the Unix file system (and why)  
Manage file and directory ownership and  
permissions Maximize your productivity with power  
filters and pipes Use the vi and emacs editors Create  
your own commands and shell scripts Connect to  
remote systems using SSH and SFTP Troubleshoot  
common problems List files and manage disk usage  
Get started with Unix shell programming Set up  
printing in a Unix environment Archive and back up  
files Search for information and files Use Perl as an  
alternative Unix programming language Set up,  
tweak, and make use of the GNOME graphical  
environment Contents at a Glance HOUR 1: What Is  
This Unix Stuff? HOUR 2: Getting onto the System  
and Using the Command Line HOUR 3: Moving  
About the File System HOUR 4: Listing Files and  
Managing Disk Usage HOUR 5: Ownership and  
Permissions HOUR 6: Creating, Moving, Renaming,  
and Deleting Files and Directories HOUR 7: Looking  
into Files HOUR 8: Filters, Pipes, and Wildcards!  
HOUR 9: Slicing and Dicing Command-Pipe Data  
HOUR 10: An Introduction to the vi Editor HOUR 11:  
Advanced vi Tricks, Tools, and Techniques HOUR  
12: An Overview of the emacs Editor HOUR 13:  
Introduction to Command Shells HOUR 14:  
Advanced Shell Interaction HOUR 15: Job Control

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HOUR 16: Shell Programming Overview HOUR 17: Advanced Shell Programming HOUR 18: Printing in the Unix Environment HOUR 19: Archives and Backups HOUR 20: Using Email to Communicate HOUR 21: Connecting to Remote Systems Using SSH and SFTP HOUR 22: Searching for Information and Files HOUR 23: Perl Programming in Unix HOUR 24: GNOME and the GUI Environment Appendix A: Common Unix Questions and Answers

You've experienced the shiny, point-and-click surface of your Linux computer—now dive below and explore its depths with the power of the command line. The Linux Command Line takes you from your very first terminal keystrokes to writing full programs in Bash, the most popular Linux shell. Along the way you'll learn the timeless skills handed down by generations of gray-bearded, mouse-shunning gurus: file navigation, environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make your way through the book's short, easily-digestible chapters, you'll learn how to:

- \* Create and delete files, directories, and symlinks
- \* Administer your system, including networking, package installation, and process management
- \* Use standard input and

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output, redirection, and pipelines \* Edit files with Vi, the world's most popular text editor \* Write shell scripts to automate common or boring tasks \* Slice and dice text files with cut, paste, grep, patch, and sed Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive way to communicate with your computer. Just don't be surprised if your mouse starts to gather dust. A featured resource in the Linux Foundation's "Evolution of a SysAdmin"

By its very nature, Unix is a " power tools " environment. Even beginning Unix users quickly grasp that immense power exists in shell programming, aliases and history mechanisms, and various editing tools. Nonetheless, few users ever really master the power available to them with Unix. There is just too much to learn! Unix Power Tools, Third Edition, literally contains thousands of tips, scripts, and techniques that make using Unix easier, more effective, and even more fun. This book is organized into hundreds of short articles with plenty of references to other sections that keep you flipping from new article to new article. You'll find the book hard to put down as you uncover one interesting tip after another. With the growing popularity of Linux and the advent of Mac OS X, Unix has metamorphosed into something new and exciting. With Unix no longer perceived as a difficult operating system, more and more users are discovering its

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advantages for the first time. 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, Mac OS X, and BSD, Unix Power Tools, Third Edition, now offers more coverage of bcash, zsh, and 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 nature of systems today. You'll also find expanded coverage of software installation and packaging, as well as basic information on Perl and Python. The book's accompanying web site provides some of the best software available to Unix users, which you can download and add to your own set of power tools. Whether you are a newcomer or a Unix power user, you'll find yourself thumbing through the gold mine of information in this 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.

Teach Yourself Shell Programming in 14 Days is a true beginning level guide to the Bourne Shell. Everyone who works in UNIX uses one of its three shells. This tutorial shows uses how to exploit the Bourne Shell to optimize their system, increase

productivity, and work more efficiently.

This true beginning level guide shows readers how to maximize the popular UNIX C Shell--both a command interpreter and a programming language. Using the effective format of this well-known series, this book helps readers work comfortably with the features and facilities of the C Shell, understand its capabilities for programming, and design and write C Shell scripts.

In just 24 lessons of one hour or less, you will be able to build full-featured production websites using Django, the powerful web development framework based on Python. Designed for experienced website developers who have at least some familiarity with the Python programming language, this book uses a straightforward, step-by-step approach. Each lesson builds on the previous ones, enabling you to learn the essentials of implementing the Django framework on a website from the ground up. Step-by-step instructions carefully walk you through the most common Django tasks. Q&As, quizzes, and exercises at the end of each lesson help you test your knowledge. Notes and tips point out shortcuts and solutions. Learn how to... Install and configure the Django web development framework Cleanly separate data, logic, and view layers Implement site interfaces with build templates and views Utilize templates and views to store, access, and retrieve data Use the Django forms library Define custom

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tags and filters to minimize coding  
Secure sites with registration, authorization, logins, and permissions  
Manage sessions and cookies  
Implement middleware for request and response handling  
Create sitemaps to inform search engines of your content  
Internationalize your site  
Optimize performance with caching  
Deploy Django in multiple configurations  
Maintain sites with Django's administrator interface

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The Definitive UNIX Resource--Fully Updated Get cutting-edge coverage of the newest releases of UNIX--including Solaris 10, all Linux distributions, HP-UX, AIX, and FreeBSD--from this thoroughly revised, one-stop resource for users at all experience levels. Written by UNIX experts with many years of experience starting with Bell Laboratories, UNIX: The Complete Reference, Second Edition provides step-by-step instructions on how to use UNIX and take advantage of its powerful tools and utilities. Get up-and-running on UNIX quickly, use the command shell and desktop, and access the Internet and e-mail. You'll also learn to administer systems and networks, develop applications, and secure your UNIX environment. Up-to-date chapters on UNIX desktops, Samba, Python, Java Apache, and UNIX Web development are included. Install, configure, and maintain UNIX on your PC or workstation Work with files, directories, commands, and the UNIX shell Create and modify

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text files using powerful text editors Use UNIX desktops, including GNOME, CDE, and KDE, as an end user or system administrator Use and manage e-mail, TCP/IP networking, and Internet services Protect and maintain the security of your UNIX system and network Share devices, printers, and files between Windows and UNIX systems Use powerful UNIX tools, including awk, sed, and grep Develop your own shell, Python, and Perl scripts, and Java, C, and C++ programs under UNIX Set up Apache Web servers and develop browser-independent Web sites and applications

Learn to use Unix, OS X, or Linux quickly and easily! In just 24 lessons of one hour or less, Sams Teach Yourself Unix in 24 Hours helps you get up and running with Unix and Unix-based operating systems such as Mac OS X and Linux. Designed for beginners with no previous experience using Unix, this book's straightforward, step-by-step approach makes it easy to learn. Each lesson clearly explains essential Unix tools and techniques from the ground up, helping you to become productive as quickly and efficiently as possible. Step-by-step instructions carefully walk you through the most common Unix tasks. Practical, hands-on examples show you how to apply what you learn. Quizzes and exercises help you test your knowledge and stretch your skills. Notes and tips point out shortcuts and solutions

Learn how to... Pick the command shell that's best

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for you Organize the Unix file system (and why)  
Manage file and directory ownership and permissions Maximize your productivity with power filters and pipes Use the vi and emacs editors Create your own commands and shell scripts Connect to remote systems using SSH and SFTP Troubleshoot common problems List files and manage disk usage Get started with Unix shell programming Set up printing in a Unix environment Archive and back up files Search for information and files Use Perl as an alternative Unix programming language Set up, tweak, and make use of the GNOME graphical environment Contents at a Glance HOUR 1: What Is This Unix Stuff? HOUR 2: Getting onto the System and Using the Command Line HOUR 3: Moving About the File System HOUR 4: Listing Files and Managing Disk Usage HOUR 5: Ownership and Permissions HOUR 6: Creating, Moving, Renaming, and Deleting Files and Directories HOUR 7: Looking into Files HOUR 8: Filters, Pipes, and Wildcards! HOUR 9: Slicing and Dicing Command-Pipe Data HOUR 10: An Introduction to the vi Editor HOUR 11: Advanced vi Tricks, Tools, and Techniques HOUR 12: An Overview of the emacs Editor HOUR 13: Introduction to Command Shells HOUR 14: Advanced Shell Interaction HOUR 15: Job Control HOUR 16: Shell Programming Overview HOUR 17: Advanced Shell Programming HOUR 18: Printing in the Unix Environment HOUR 19: Archives and

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and Files HOUR 23: Perl Programming in Unix  
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Appendix A: Common Unix Questions and Answers  
A guide to Linux's most recent Red Hat distribution  
explores installation, configuration, customizing and  
negotiating the new desktop environment,  
peripherals, troubleshooting, debugging, and  
locating system support.

Numerous people still believe that learning and  
acquiring expertise in Linux is not easy, that only a  
professional can understand how a Linux system  
works. Nowadays, Linux has gained much popularity  
both at home and at the workplace. Linux Yourself:  
Concept and Programming aims to help and guide  
people of all ages by offering a deep insight into the  
concept of Linux, its usage, programming,  
administration, and several other connected topics in  
an easy approach. This book can also be used as a  
textbook for undergraduate/postgraduate  
engineering students and others who have a passion  
to gain expertise in the field of computer  
science/information technology as a Linux developer  
or administrator. The word "Yourself" in the title  
refers to the fact that the content of this book is  
designed to give a good foundation to understand  
the Linux concept and to guide yourself as a good

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Linux professional in various platforms. There are no prerequisites to understand the contents from this book, and a person with basic knowledge of C programming language will be able to grasp the concept with ease. With this mindset, all the topics are presented in such a way that it should be simple, clear, and straightforward with many examples and figures. Linux is distinguished by its own power and flexibility, along with open-source accessibility and community as compared to other operating systems, such as Windows and macOS. It is the author's sincere view that readers of all levels will find this book worthwhile and will be able to learn or sharpen their skills.

**KEY FEATURES**

- Provides a deep conceptual learning and expertise in programming skill for any user about Linux, UNIX, and their features.
- Elaborates GUI and CUI including Linux commands, various shells, and the vi editor
- Details file management and file systems to understand Linux system architecture easily
- Promotes hands-on practices of regular expressions and advanced filters, such as sed and awk through many helpful examples
- Describes an insight view of shell scripting, process, thread, system calls, signal, inter-process communication, X Window System, and many more aspects to understand the system programming in the Linux environment
- Gives a detailed description of Linux administration by elaborating LILO, GRUB, RPM-based package, and

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program installation and compilation that can be very helpful in managing the Linux system in a very efficient way Reports some famous Linux distributions to understand the similarity among all popular available Linux and other features as case studies

'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.

A collection of exercises explains how to use Structured Query Language to work within a relational database system, while discussing security, data manipulation, and user management. Sams Teach Yourself Beginning Programming in 24 Hours, Second Edition explains the basics of programming in the successful 24-Hours format. The book begins with the absolute basics of programming: Why program? What tools to use? How does a program tell the computer what to do? It teaches readers how to program the computer and then moves on by exploring the some most popular programming languages in use. The author starts by introducing the reader to the Basic language and finishes with basic programming techniques for Java, C++, and others.

Teaches users how to work with the FreeBSD

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operating system, explaining how to do common tasks, such as setting up a basic Web server, and how to work with the graphical user environment. A handy book for someone just starting with Unix or Linux, and an ideal primer for Mac and PC users of the Internet who need to know a little about Unix on the systems they visit. The most effective introduction to Unix in print, covering Internet usage for email, file transfers, web browsing, and many major and minor updates to help the reader navigate the ever-expanding capabilities of the operating system.

Shell scripts are an efficient way to interact with your machine and manage your files and system operations. With just a few lines of code, your computer will do exactly what you want it to do. But you can also use shell scripts for many other essential (and not-so-essential) tasks. This second edition of *Wicked Cool Shell Scripts* offers a collection of useful, customizable, and fun shell scripts for solving common problems and personalizing your computing environment. Each chapter contains ready-to-use scripts and explanations of how they work, why you'd want to use them, and suggestions for changing and expanding them. You'll find a mix of classic favorites, like a disk backup utility that keeps your files safe when your system crashes, a password manager, a weather tracker, and several games, as well as 23

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brand-new scripts, including: – ZIP code lookup tool that reports the city and state – Bitcoin address information retriever – suite of tools for working with cloud services like Dropbox and iCloud – for renaming and applying commands to files in bulk – processing and editing tools Whether you want to save time managing your system or just find new ways to goof off, these scripts are wicked cool! This second edition is designed to take users from novice to accomplish user in just 24 one-hour sessions. It discusses UNIX programming and includes a handy glossary of terms.

Unix in 24 Hours, Sams Teach Yourself Covers OS X, Linux, and Solaris Sams Publishing

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