

Tcl Tk In A Nutshell In A Nutshell O'Reilly

A programmer's guide to the incr Tcl/Tk language presents a host of real-world examples as it explains how incr Tcl/Tk works, how to write streamlined code to build integrated applications, and how to take advantage of its GUI capabilities. Original. (Intermediate).

This complete guide to the Perl programming language ranges widely through the Perl programmer's universe, gathering together in a convenient form a wealth of information about Perl itself and its application to CGI scripts, XML processing, network programming, database interaction, and graphical user interfaces. The book is an ideal reference for experienced Perl programmers and beginners alike. With more than a million dedicated programmers, Perl is proving to be the best language for the latest trends in computing and business, including network programming and the ability to create and manage web sites. It's a language that every Unix system administrator and serious web developer needs to know. In the past few years, Perl has found its way into complex web applications of multinational banks, the U.S. Federal Reserve, and hundreds of large corporations. In this second edition, Perl in a Nutshell has been expanded to include coverage of Perl 5.8, with information on Unicode processing in Perl, new functions and modules that have been added to the core language, and up-to-date details on running Perl on the Win32 platform. The book also covers Perl modules for recent technologies such as XML and SOAP. Here are just some of the topics contained in this book: Basic Perl reference Quick reference to built-in functions and standard modules CGI.pm and mod_perl XML::* modules DBI, the database-independent API for Perl Sockets programming LWP, the library for Web programming in Perl Network programming with the Net modules Perl/Tk, the Tk extension to Perl for graphical interfaces Modules for interfacing with Win32 systems As part of the successful "in a Nutshell" book series from O'Reilly & Associates, Perl in a Nutshell is for readers who want a single reference for all their needs. "In a nutshell, Perl is designed to make the easy jobs easy, without making the hard jobs impossible." -- Larry Wall, creator of Perl

Build network-aware applications using Tcl, a powerful dynamic programming language.

The Tcl language and Tk graphical toolkit are simple and powerful building blocks for custom applications. The Tcl/Tk combination is increasingly popular because it lets you produce sophisticated graphical interfaces with a few easy commands, develop and change scripts quickly, and conveniently tie together existing utilities or programming libraries. One of the attractive features of Tcl/Tk is the wide variety of commands, many offering a wealth of options. Most of the things you'd like to do have been anticipated by the language's creator, John Ousterhout, or one of the developers of Tcl/Tk's many powerful extensions. Thus, you'll find that a command or option probably exists to provide just what you need. And that's why it's valuable to have a quick reference that briefly describes every command

and option in the core Tcl/Tk distribution as well as the most popular extensions. Keep this book on your desk as you write scripts, and you'll be able to find almost instantly the particular option you need. Most chapters consist of alphabetical listings. Since Tk and mega-widget packages break down commands by widget, the chapters on these topics are organized by widget along with a section of core commands where appropriate. Contents include: Core Tcl and Tk commands and Tk widgets C interface (prototypes) Expect [incr Tcl] and [incr Tk] Tix TclX BLT Oratcl, SybTcl, and Tclodbc

As an open operating system, Unix can be improved on by anyone and everyone: individuals, companies, universities, and more. As a result, the very nature of Unix has been altered over the years by numerous extensions formulated in an assortment of versions. Today, Unix encompasses everything from Sun's Solaris to Apple's Mac OS X and more varieties of Linux than you can easily name. The latest edition of this bestselling reference brings Unix into the 21st century. It's been reworked to keep current with the broader state of Unix in today's world and highlight the strengths of this operating system in all its various flavors. Detailing all Unix commands and options, the informative guide provides generous descriptions and examples that put those commands in context. Here are some of the new features you'll find in Unix in a Nutshell, Fourth Edition: Solaris 10, the latest version of the SVR4-based operating system, GNU/Linux, and Mac OS X Bash shell (along with the 1988 and 1993 versions of ksh) tsch shell (instead of the original Berkeley csh) Package management programs, used for program installation on popular GNU/Linux systems, Solaris and Mac OS X GNU Emacs Version 21 Introduction to source code management systems Concurrent versions system Subversion version control system GDB debugger As Unix has progressed, certain commands that were once critical have fallen into disuse. To that end, the book has also dropped material that is no longer relevant, keeping it taut and current. If you're a Unix user or programmer, you'll recognize the value of this complete, up-to-date Unix reference. With chapter overviews, specific examples, and detailed command.

Explains how to customize and troubleshoot the most recent version of the Mac operating system, covering the Mac interface, system maintenance, desktop publishing, Sherlock, networking, and creating themes.

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 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!

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 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.

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Written for developers who want build applications using Twisted, this book presents a task-oriented look at this open source, Python- based technology.

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.

Over 100 great recipes to effectively learn Tcl/Tk 8.5.

Machine generated contents note: Chapter 1: Tcl/Tk Features Chapter 2: The

Mechanics of Using the Tcl and Tk Interpreters Chapter 3: Introduction to the Tcl Language Chapter 4: File System, Disk I/O and Sockets Chapter 5: Using Strings and Lists Chapter 6: Basic list, array and dict Chapter 7: Advanced List, array and dict Chapter 8: Procedure Techniques Chapter 9: Namespaces Chapter 10: Basic TclOO Chapter 11: Advanced TclOO Chapter 12: Packages and modules Chapter 13: Introduction to Tk Graphics Chapter 14: Overview of the canvas Widget Chapter 15: The text widget and htmllib Chapter 16: Themed Widgets Chapter 17: Tk Megawidgets Chapter 18: Writing a Tcl Extension Chapter 19: Extensions and Packages Chapter 20: Programming Tools Chapter 21: Debugging and Optimization techniques Chapter 22: Tips and Techniques .

Twitter is not just for talking about your breakfast anymore. It's become an indispensable communications tool for businesses, non-profits, celebrities, and people around the globe. With the second edition of this friendly, full-color guide, you'll quickly get up to speed not only on standard features, but also on new options and nuanced uses that will help you tweet with confidence. Co-written by two widely recognized Twitter experts, *The Twitter Book* is packed with all-new real-world examples, solid advice, and clear explanations guaranteed to turn you into a power user. Use Twitter to connect with colleagues, customers, family, and friends Stand out on Twitter Avoid common gaffes and pitfalls Build a critical communications channel with Twitter—and use the best third-party tools to manage it. Want to learn how to use Twitter like a pro? Get the book that readers and critics alike rave about.

Details a variety of front-end technologies and techniques and reviews Web design fundamentals while explaining how to work with HTML, graphics, and multimedia and interactive applications.

Covers Tcl expressions, control structures, lists and arrays, widgets, using Tk with Perl and C, and creating user interfaces and Web applications with Tcl Just what you need -- another programming language that promises to transform your Web site into an interactive multimedia powerhouse. But before you roll your eyes, consider this: Tcl/Tk, the new scripting language from the folks who gave us Java, not only adds interactivity and multimedia to Web pages, but it's also easy to use -- even for non-programmers. And *Tcl/Tk For Dummies* makes easy-to-use even easier. A practical, comprehensive reference, *Tcl/Tk For Dummies* introduces you to the language and what you can do with it. Authors Tim Webster and Alex Francis quickly get you up to speed writing your own tclets, compact programs that run within Web pages viewed in the Netscape Navigator or Microsoft Internet Explorer Web browsing programs. The authors spell out the language's simple syntax and present the commands, procedures, functions, variables, and other elements that make up Tcl/Tk. They also show you how to use widgets, convenient, ready-to-use components that you can add to your Tcl/Tk programs. In addition, *Tcl/Tk For Dummies* provides hands-on information on how to do things like Develop useful applications that run within a Web browser as if they were traditional, stand-alone programs running under a regular operating system Write platform-independent scripts that run on Windows, Mac OS, UNIX, and even on BeOS platforms Create animation and games to add

value and fun to Web pages Improve your Web server's performance by shifting the burden from server-side CGI scripts to client-side Tcl/Tk scripts Plus, the Tcl/Tk For Dummies CD-ROM includes the Mac and Windows Tcl/Tk 8.0 development software with Wish 8.0, and HTML editor, and plenty of sample code from the book.

In just a few chapters you will learn about Tcl features that allow you to isolate and protect your code from being damaged in large applications. You will even learn how to extend the language itself. Tcl/Tk: A Developer's Guide clearly discusses development tools, proven techniques, and existing extensions. It shows how to use Tcl/Tk effectively and provides many code examples. This fully revised new edition is the complete resource for computer professionals, from systems administrators to programmers. It covers versions 7.4 to 8.4 and includes a CD-ROM containing the interpreters, libraries, and tutorials to get you started quickly. Additional materials in the book include case studies and discussions of techniques for the advanced user. On the CD-ROM *Distributions for Tcl 8.3 and 8.4 for Linux, Solaris, Macintosh, and Windows. *A copy of ActiveTcl from ActiveState. *The latest release of TclTutor. *How-to's and tutorials as well as copies of all the tools discussed in the book.

When you have questions about C# 7.0 or the .NET CLR and its core Framework assemblies, this bestselling guide has the answers you need. Since its debut in 2000, C# has become a language of unusual flexibility and breadth, but its continual growth means there's always more to learn. Organized around concepts and use cases, this updated edition provides intermediate and advanced programmers with a concise map of C# and .NET knowledge. Dive in and discover why this Nutshell guide is considered the definitive reference on C#. Get up to speed on the C# language, from the basics of syntax and variables to advanced topics such as pointers, operator overloading, and dynamic binding Dig deep into LINQ via three chapters dedicated to the topic Explore concurrency and asynchrony, advanced threading, and parallel programming Work with .NET features, including XML, regular expressions, networking, serialization, reflection, application domains, and security Delve into Roslyn, the modular C# 7.0 compiler-as-a-service

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).

John K. Ousterhout's Definitive Introduction to Tcl/Tk—Now Fully Updated for Tcl/Tk 8.5 Tcl and the Tk Toolkit, Second Edition, is the fastest way for newcomers to master Tcl/Tk and is the most authoritative resource for experienced programmers seeking to gain from Tcl/Tk 8.5's powerful enhancements. Written by Tcl/Tk creator John K. Ousterhout and top Tcl/Tk trainer Ken Jones, this updated volume provides the same extraordinary clarity and careful organization that made the first edition the world's number one Tcl/Tk tutorial. Part I introduces Tcl/Tk through simple scripts that demonstrate its

value and offer a flavor of the Tcl/Tk scripting experience. The authors then present detailed, practical guidance on every feature necessary to build effective, efficient production applications—including variables, expressions, strings, lists, dictionaries, control flow, procedures, namespaces, file and directory management, interprocess communication, error and exception handling, creating and using libraries, and more. Part II turns to the Tk extension and Tk 8.5's new themed widgets, showing how to organize sophisticated user interface elements into modern GUI applications for Tcl. Part III presents incomparable coverage of Tcl's C functions, which are used to create new commands and packages and to integrate Tcl with existing C software—thereby leveraging Tcl's simplicity while accessing C libraries or executing performance-intensive tasks. Throughout, the authors illuminate all of Tcl/Tk 8.5's newest, most powerful improvements. You'll learn how to use new Starkits and Starpacks to distribute run-time environments and applications through a single file; how to take full advantage of the new virtual file system support to treat entities such as zip archives and HTTP sites as mountable file systems; and more. From basic syntax to simple Tcl commands, user interface development to C integration, this fully updated classic covers it all. Whether you're using Tcl/Tk to automate system/network administration, streamline testing, control hardware, or even build desktop or Web applications, this is the one Tcl/Tk book you'll always turn to for answers.

Written by the author of *Expect*, this is the first book to explain how this new part of the UNIX toolbox can be used to automate telnet, ftp, passwd, rlogin, and hundreds of other interactive applications. The book provides lots of practical examples and scripts solving common problems, including a chapter of extended examples.

Tcl/Tk is a scripting language suited for accomplishing a variety of interactivity including information collection, security and encryption, game development, and task automation. This book introduces the Tcl/Tk language as a viable Web application development tool. It presents the fundamentals of programming with Tcl/Tk to equip the reader with applications that take advantage of the Internet environment. The CD-ROM contains a variety of examples and tools which allow the reader to either build on basic applications or use the lessons in the book to build a weblet from scratch.

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 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

To-the-point, authoritative, no-nonsense solutions have always been a trademark of O'Reilly books. The In a Nutshell books have earned a solid reputation in the field as the well-thumbed references that sit beside the knowledgeable developer's keyboard. C++ in a Nutshell lives up to the In a Nutshell promise. C++ in a Nutshell is a lean, focused reference that offers practical examples for the most important, most often used, aspects of C++. C++ in a Nutshell packs an enormous amount of information on C++ (and the many libraries used with it) in an indispensable quick reference for those who live in a deadline-driven world and need the facts but not the frills. The book's language reference is organized first by topic, followed by an alphabetical reference to the language's keywords, complete with syntax summaries and pointers to the topic references. The library reference is organized by header file, and each library chapter and class declaration presents the classes and types in alphabetical order, for easy lookup. Cross-references link related methods, classes, and other key features. This is an ideal resource for students as well as professional programmers. When you're programming, you need answers to questions about language syntax or parameters required by library routines quickly. What, for example, is the C++ syntax to define an alias for a namespace? Just how do you create and use an iterator to work with the contents of a standard library container? C++ in a Nutshell is a concise desktop reference that answers these questions, putting the full power of this flexible, adaptable (but somewhat difficult to master) language at every C++ programmer's fingertips. Offers the syntax for keywords, operators, functions, and classes; covers the Standard Template Library and I/O system; provides programming tips; and discusses problem-solving in C/C++ environments.

An innovative reference reveals the many capabilities of the Python Standard Library, which is a compilation of commonly used procedures that can be pasted into a Python script, by providing over 300 real-world example scripts. Original.

(Intermediate/Advanced)

The Tcl Programming Language is a comprehensive guide to the current version (8.6) of this immensely flexible and versatile language. Starting with the basic features, it expands its scope to include the more advanced concepts, facilities and programming idioms from which the language derives its power. Begin with the basics of Tcl syntax and commands for operating on data. Get acquainted with the flexible and uniform execution model that enables metaprogramming, custom control structures etc. Learn to modularize your code with namespaces, object-oriented design and packages. See how intrinsic support for Unicode and encodings makes it a breeze to localize your

applications. Become conversant with the integrated event loop and how it facilitates efficient asynchronous I/O models and the reactive style of programming. Delve into Tcl's sophisticated I/O framework and write your own reflected channels, transforms and virtual file systems. Understand the built-in facilities for inter-process communication using pipes or the network. See how concurrent programming facilities like coroutines and threads can simplify your code and make it more performant. Learn how to secure your application through the use of safe interpreters for sandboxing. Interact with databases through the Tcl Database Connectivity interface. Discover how software distribution and installation headaches are eliminated with starkits and single file deployment. The breadth of coverage and numerous examples will familiarize newcomers to every aspect of Tcl programming. At the same time, the depth and level of detail, and an exhaustive index, make *The Tcl Programming Language* a valuable reference in every Tcl programmer's library.

Tcl/Tk in a Nutshell: A Desktop Quick Reference O'Reilly Media, Inc."

Portable, powerful, and a breeze to use, Python is ideal for both standalone programs and scripting applications. With this hands-on book, you can master the fundamentals of the core Python language quickly and efficiently, whether you're new to programming or just new to Python. Once you finish, you will know enough about the language to use it in any application domain you choose. *Learning Python* is based on material from author Mark Lutz's popular training courses, which he's taught over the past decade. Each chapter is a self-contained lesson that helps you thoroughly understand a key component of Python before you continue. Along with plenty of annotated examples, illustrations, and chapter summaries, every chapter also contains Brain Builder, a unique section with practical exercises and review quizzes that let you practice new skills and test your understanding as you go. This book covers: Types and Operations -- Python's major built-in object types in depth: numbers, lists, dictionaries, and more Statements and Syntax -- the code you type to create and process objects in Python, along with Python's general syntax model Functions -- Python's basic procedural tool for structuring and reusing code Modules -- packages of statements, functions, and other tools organized into larger components Classes and OOP -- Python's optional object-oriented programming tool for structuring code for customization and reuse Exceptions and Tools -- exception handling model and statements, plus a look at development tools for writing larger programs *Learning Python* gives you a deep and complete understanding of the language that will help you comprehend any application-level examples of Python that you later encounter. If you're ready to discover what Google and YouTube see in Python, this book is the best way to get started.

Applying revision control system and source code control system.

In a fully revised third edition, Welch covers new features and functionality of Tcl/Tk 8.1. CD includes a copy of Tel Web Server, Tel software and all code examples from the book.

If you're considering R for statistical computing and data visualization, this book provides a quick and practical guide to just about everything you can do with the open source R language and software environment. You'll learn how to write R functions and use R packages to help you prepare, visualize, and analyze data. Author Joseph Adler illustrates each process with a wealth of examples from medicine, business, and sports. Updated for R 2.14 and 2.15, this second edition includes new and expanded chapters

on R performance, the ggplot2 data visualization package, and parallel R computing with Hadoop. Get started quickly with an R tutorial and hundreds of examples Explore R syntax, objects, and other language details Find thousands of user-contributed R packages online, including Bioconductor Learn how to use R to prepare data for analysis Visualize your data with R's graphics, lattice, and ggplot2 packages Use R to calculate statistical tests, fit models, and compute probability distributions Speed up intensive computations by writing parallel R programs for Hadoop Get a complete desktop reference to R

Learn how to create cross-platform graphical applications with the powerful Tcl scripting language for UNIX and Windows and the Tk toolkit. The CD-ROM contains executable Tcl for Windows, source code for the Windows, UNIX and Mac versions of Tcl, and Tcl contributed freeware.

This book describes a collection of extensions, tools, and applications that have played an essential role in the success of the Tcl scripting language and the Tk toolkit. Both packages are suited to a wide range of tasks, from serving as an embedded control language to controlling NASA's most advanced spacecraft.

A handy reference guide includes easy-to-understand summaries of the basic Tcl language elements, to the Tcl and Tk commands, and to the Tk widgets, in a quick access format. Original. (Advanced).

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