Tcl Tk A Developers Guide The Morgan Kaufmann Series In Software Engineering And Programming

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 you1re upgrading to Tcl/Tk 8.4, or building GUIs for applicationscreated with other languages, or just searching for a better cross-platformscripting solution, Practical Programming in Tcl and Tk, Fourth Editiondelivers all you need to get results!

Here is the first book on Desktop KornShell (a Tcl/Tk competitor), written by the developer of the technology. Like Tcl/Tk, Desktop KornShell is a scripting language that enables programmers to develop graphical user interfaces quickly and easily. Since Desktop KornShell is provided as part of the new Common Desktop Environment, it has potentially an even wider appeal than Tcl/Tk.

The rules of battle for tracking down -- and eliminating -- hardware and software bugs. When the pressure is on to root out an elusive software or hardware glitch, what's needed is a cool head courtesy of a set of rules guaranteed to work on any system, in any circumstance. Written in a frank but engaging style, Debugging provides simple, foolproof principles guaranteed to help find any bug quickly. This book makes those shelves of application-specific debugging books (on C++, Perl, Java, etc.) obsolete. It changes the way readers think about debugging, making those pesky problems suddenly much easier to find and fix. Illustrating the rules with real-life bug-detection war stories, the book shows readers how to: * Understand the system: how perceiving the ""roadmap"" can hasten your journey * Quit thinking and look: when hands-on investigation can't be avoided * Isolate critical factors: why changing one element at a time can be an essential tool * Keep an audit trail: how keeping a record of the debugging process can win the day The rules of battle for tracking down -- and eliminating -- hardware and software bugs. When the pressure is on to root out an elusive software or hardware glitch, what's needed is a cool head courtesy of a set of rules guaranteed to work on any system, in any circumstance. Written in a frank but engaging style, Debugging provides simple, foolproof principles guaranteed to help find any bug quickly. This book makes those shelves of application-specific debugging books (on C++, Perl, Java, etc.) obsolete. It changes the way readers think about debugging, making those pesky problems suddenly much easier to find and fix. Illustrating the rules with real-life bug-detection war stories, the book shows readers how to: * Understand the system: how perceiving the ""roadmap"" can hasten your journey * Quit thinking and look: when hands-on investigation can't be avoided * Isolate critical factors: why changing one element at a time can be an essential tool * Keep an audit trail: how keeping a record of the debugging process can win the day The rules of battle for tracking down -- and eliminating -- hardware and software bugs. When the pressure is on to root out an elusive software or hardware glitch, what's needed is a cool head courtesy of a set of rules guaranteed to work on any system, in any circumstance. Written in a frank but engaging style, Debugging provides simple, foolproof principles guaranteed to help find any bug quickly. This book makes those shelves of application-specific debugging books (on C++, Perl, Java, etc.) obsolete. It changes the way readers think about debugging, making those pesky problems suddenly much easier to find and fix. Illustrating the rules with real-life bug-detection war stories, the book shows readers how to: * Understand the system: how perceiving the ""roadmap"" can hasten your journey * Quit thinking and look: when hands-on investigation can't be avoided * Isolate critical factors: why changing one element at a time can be an essential tool * Keep an audit trail: how keeping a record of the debugging process can win the day

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).

Tcl/TkA Developer's GuideElsevier

An expert guide to Ruby, a popular new Object-Oriented Programming Language Ruby is quickly becoming a favourite among developers who need a simple, straight forward, portable programming language. Ruby is ideal for quick and easy object-oriented programming such as processing text files or performing system management. Having been compared with other programming languages such as Perl, Python, PCL, Java, Eiffel, and C++; Ruby is popular because of its straight forward syntax and transparent semantics. Using step-by-step examples and real world applications, the Ruby Developer's Guide is designed for programmers and developer's looking to embrace the object-oriented features and functionality of this robust programming language. Readers will learn how to develop, implement, organize and deploy applications using Ruby. Ruby is currently experiencing a rapid rise in popularity in the object-oriented programming community Readers receive up-to-the-minute links, white papers, and analysis for two years at solutions@syngress.com Comes with a wallet-sized CD containing a printable HTML version of the book, all of the source code examples and demos of popular Ruby third-party

programming tools and applications

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.

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).

Written by a bestselling and well-known author, this is the only book on programming for Linux using GNU C++, covering all aspects of Linux including fundamentals, object-oriented programming, advanced techniques, X Windows, and more. CD contains Red Hat Linux source code and all the code from the text.

An introduction to Oracle's use of open source technology explores the applications of nearly one hundred open source tools, including such common applications as Linux, Perl, and Apache, as well as Oracle-specific ones such as Orasof, Orac, OracleTool, and OraSnap, and provides information on how to get them, their benefits, and more. Original. (Intermediate)

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.

Winner of the 2014 Jolt Award for "Best Book" "Whether you are an experienced programmer or are starting your career, Python in Practice is full of valuable advice and example to help you improve your craft by thinking about problems from different perspectives, introducing tools, and detailing techniques to create more effective solutions." --Doug Hellmann, Senior Developer, DreamHost If you're an experienced Python programmer, Python in Practice will help you improve the quality, reliability, speed, maintainability, and usability of all your Python programs. Mark Summerfield focuses on four key themes: design patterns for coding elegance, faster processing through concurrency and compiled Python (Cython), high-level networking, and graphics. He identifies well-proven design patterns that are useful in Python, illuminates them with expert-quality code, and explains why some object-oriented design patterns are irrelevant to Python. He also explodes several counterproductive myths about Python programming--showing, for example, how Python can take full advantage of multicore hardware. All examples, including three complete case studies, have been tested with Python 3.3 (and, where possible, Python 3.2 and 3.1) and crafted to maintain compatibility with future Python 3.x versions. All code has been tested on Linux, and most code has also been tested on OS X and Windows. All code may be downloaded atwww.qtrac.eu/pipbook.html. Coverage includes Leveraging Python's most effective creational, structural, and behavioral design patterns Supporting concurrency with Python's multiprocessing, threading, and concurrent.futures modules Avoiding concurrency problems using thread-safe queues and futures rather than fragile locks Simplifying networking with high-level modules, including xmlrpclib and RPyC Accelerating Python code with Cython, C-based Python modules, profiling, and other techniques Creating modern-looking GUI applications with Tkinter Leveraging today's powerful graphics hardware via the OpenGL API using pyglet and PyOpenGL

The Tcl Programming Language is a comprehensive guide to the current version (8.6) of this immensely flexible and versatilelanguage. Starting with the basic features, it expands its scope toinclude the more advanced concepts, facilities and programming idiomsfrom which the language derives its power. Begin with the basics of Tcl syntax and commands for operating ondata. Get acquainted with the flexible and uniform execution model thatenables metaprogramming, custom control structures etc. Learn to modularize your code with namespaces, object-orienteddesign and packages. See how intrinsic support for Unicode and encodings makes it abreeze to localize your applications. Become conversant with the integrated event loop and how itfacilitates efficient asynchronous I/O models and the reactive styleof programming. Delve into Tcl's sophisticated I/O framework and write your ownreflected channels, transforms and virtual file systems. Understand the built-in facilities for inter-process communicationusing pipes or the network. See how concurrent programming facilities like coroutines andthreads can simplify your code and make it more performant. Learn how to secure your application through the use of safeinterpreters for sandboxing. Interact with databases through the Tcl Database Connectivityinterface. Discover how software distribution and installation headaches areeliminated with starkits and single file deployment. The breadth of coverage and numerous examples will familiarizenewcomers to every aspect of Tcl programming. At the same time, thedepth and level of detail, and an exhaustive index, make The TclProgramming Language a valuable reference in every Tcl programmer's library.

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. 0201634740B04062001

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.

Introduction to Network Simulator NS2 is a primer providing materials for NS2 beginners, whether students, professors, or researchers for understanding the architecture of Network Simulator 2 (NS2) and for incorporating simulation modules into NS2. The authors discuss the simulation architecture and the key components of NS2 including simulation-related objects, network objects, packet-related objects, and helper objects. The NS2 modules included within are nodes, links, SimpleLink objects, packets, agents, and applications. Further, the book covers three helper modules: timers, random number generators, and error models. Also included are chapters on summary of debugging, variable and packet tracing, result compilation, and examples for extending NS2. Two appendices provide the details of scripting language Tcl, OTcl and AWK, as well object oriented programming used extensively in NS2.

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.

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.

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.

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

A guide to building and modifying Tcl scripts to automate network administration tasks Streamline Cisco network administration and save time with Tcl scripting Cisco networking professionals are under relentless pressure to accomplish more, faster, and with fewer resources. The best way to meet this challenge is to automate mundane or repetitive tasks wherever possible. In this book, three Cisco experts show you how to use Tcl scripting for Cisco IOS devices to do just that. You'll learn easy techniques for creating, using, and modifying Tcl scripts that run directly on Cisco network devices from the Cisco IOS command line. The authors first teach basic Tcl commands and concepts for capturing and manipulating data and for querying or controlling Cisco equipment. Building on these core skills, they show you how to write scripts that automate and streamline many common IOS configuration, monitoring, and problem-solving tasks. The authors walk through the entire script development process, including planning and flowcharting what you want to accomplish, formatting your code, adding comments, and troubleshooting script errors. They also present many downloadable sample scripts, along with practical guidance for adapting them to your own environment. Whatever your role in managing, monitoring, or securing Cisco IOS networks and equipment, this book will help you get the job done more rapidly and efficiently. Automate routine administration tasks you've always performed manually Instantly collect and modify IOS router configurations and other data Write Syslog scripts to document failures, monitor network health, collect statistics, and send alarm messages Implement automated network performance measurement using IP SLA Use the Embedded Event Manager's event detectors, server, and policies to customize device operation Trigger preplanned actions to correct problems as they arise Simplify policy management using the Tcl script refresh feature Protect Tcl script security with digital signatures and PKI Understand how Tcl functions within the Cisco IOS environment Master Tcl syntax and commands through hands-on practice Learn best scripting practices through expert examples Quickly modify this book's examples for your own environment This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Describes the concepts of programming with Linux, covering such topics as shell programming, file structure, managing memory, using MySQL, debugging, processes and signals, and GNOME.

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.

Don't neglect the shell - this book will empower you to use simple commands to perform complex tasks. Whether you're a casual or advanced Linux user, the cookbook approach makes it all so brilliantly accessible and, above all, useful. Overview Master the art of crafting one-liner command sequence to perform text processing, digging data from files, backups to sysadmin tools, and a lot more And if powerful text processing isn't enough, see how to make your scripts interact with the web-services like Twitter, Gmail Explores the possibilities with the shell in a simple and elegant way - you will see how to effectively solve problems in your day to day life In Detail The shell remains one of the most powerful tools on a computer system - yet a large number of users are unaware of how much one can accomplish with it. Using a combination of simple commands, we will see how to solve complex problems in day to day computer usage. Linux Shell Scripting Cookbook, Second Edition will take you through useful real-world recipes designed to make your daily life easy when working with the shell. The book shows the reader how to effectively use the shell to accomplish complex tasks with ease. The book discusses basics of using the shell, general commands and proceeds to show the reader how to use them to perform complex tasks with ease. Starting with the basics of the shell, we will learn simple commands with their usages allowing us to perform operations on files of different kind. The book then proceeds to explain text processing, web interaction and concludes with backups, monitoring and other sysadmin tasks. Linux Shell Scripting Cookbook, Second Edition serves as an excellent guide to solving day to day problems using the shell and few powerful commands together to create solutions. What you will learn from this book Explore a variety of regular usage tasks and how it can be made faster using shell command Write shell scripts that can dig data from web and process it with few lines of code Use different kinds of tools together to create solutions Interact with simple web API from scripts Perform and automate tasks such as automating backups and restore with archiving tools Create and maintain file/folder archives, compression formats and encrypting techniques with shell Set up Ethernet and Wireless LAN with the shell script Monitor different activities on the network using logging techniques Approach This book is written in a Cookbook style and it offers learning through recipes with examples and illustrations. Each recipe contains step-by-step instructions about everything necessary to execute a particular task. The book is designed so that you can read it from start to end for beginners, or just open up any chapter and start following the recipes as a reference for advanced users. Who this book is written for This book is both for the casual GNU/Linux users who want to do amazing things with the shell, and for advanced users looking for ways to make their lives with the shell more productive. You can start writing scripts and one-liners by simply looking at the similar recipe and its descriptions without any working knowledge of shell scripting or Linux. Intermediate/advanced users as well as system administrators/ developers and programmers can use this book as a reference when they face problems while coding.

A tutorial and reference to the object-oriented programming language for beginning to experienced programmers, updated for version 1.8, describes the language's structure, syntax, and operation, and explains how to build applications. Original. (Intermediate)

"PostgreSQL Developer's Handbook" provides a complete overview of the PostgreSQL database server and extensive coverage of its core features, including object orientation, PL/SQL, and the most important programming interfaces. The authors introduce the reader to the language and syntax of PostgreSQL and then move quickly into sophisticated programming topics.

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

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.

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

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

Newly updated with over 150 pages of material on the latest Tcl extensions, Tcl/Tk: A Developer's Guide is a unique practical tutorial for professional programmers and beginners alike. Starting with a clear picture of the basics, Tcl/Tk covers the variety of tools in this "Swiss army knife" of programming languages, giving you the ability to enhance your programs, extend your application's capabilities, and become a more effective programmer. This updated edition covers all of the new features of version 8.6, including object-oriented programming and the creation of megawidgets, existing data structure implementations, themed widgets and virtual events. Extensive code snippets and online tutorials in various languages will give you a firm grasp on how to use the Tcl/Tk libraries and interpreters and, most importantly, on what constitutes an effective strategy for using Tcl/Tk. Includes the latest features of Tcl/Tk 8.6 Covers Tcl development tools, popular extensions, and packages to allow developers to solve real-world problems with Tcl/Tk immediately Provides straightforward explanations for beginners and offers tips, style guidelines, and debugging techniques for advanced users

Over 75% of network attacks are targeted at the web application layer. This book provides explicit hacks, tutorials, penetration tests, and step-by-step demonstrations for security professionals and Web application developers to defend their most vulnerable applications. This book defines Web application security, why it should be addressed earlier in the lifecycle in development and quality assurance, and how it differs from other types of Internet security. Additionally, the book examines the procedures and technologies that are essential to developing, penetration testing and releasing a secure Web application. Through a review of recent Web application breaches, the book will expose the prolific methods hackers use to execute Web attacks using common vulnerabilities such as SQL Injection, Cross-Site Scripting and Buffer Overflows in the application layer. By taking an in-depth look at the techniques hackers use to exploit Web applications, readers will be better equipped to protect confidential. The Yankee Group estimates the market for Web application-security products and services will grow to $1.74 billion by 2007 from $140 million in 2002 Author Michael Cross is a highly sought after speaker who regularly delivers Web Application presentations at leading conferences including: Black Hat, TechnoSecurity, CanSec West, Shmoo Con, Information Security, RSA Conferences, and more

A practical guide focusing exclusively on Web applications of Tcl/Tk Like Java, Tcl/Tk enables programmers to create programs that can run independent of graphical hardware or operating systems. This makes it a natural for Web developers. Packed with real-world examples, this book reveals how to write a complete browser in the latest version of Tcl, create GUI components, and use Tcl to interact with Java, JavaScript, and CGI/Perl. It also demonstrates how to write Tcl applets, called "Tclets" and provides plug-ins that can handle these applets. Tcl (Tool Command Language) is a scripting language with its own built-in interpreter that can be used to easily develop applications. Tk is the Tcl toolkit for building graphical interfaces. Companion Web site features all code and Tcl applets from the book.

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.

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 .

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

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.

A practical guide for Visual Studio 2019 and Visual Studio Code developers who want to advance their knowledge of how to leverage code generation and how to scan their code for security vulnerabilities.

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