

Cross Platform Gui Programming With Wxwidgets Bruce Perens Open Source

"This book is the best way for beginning developers to learn wxWidgets programming in C++. It is a must-have for programmers thinking of using wxWidgets and those already using it." –Mitch Kapor, founder of Lotus Software and the Open Source Applications Foundation Build advanced cross-platform applications that support native look-and-feel on Windows, Linux, Unix, Mac OS X, and even Pocket PC Master wxWidgets from start to finish—even if you've never built GUI applications before Leverage advanced wxWidgets capabilities: networking, multithreading, streaming, and more Foreword by Mitch Kapor, founder, Lotus Development and Open Source Application Foundation wxWidgets is an easy-to-use, open source C++ API for writing GUI applications that run on Windows, Linux, Unix, Mac OS X, and even Pocket PC—supporting each platform's native look and feel with virtually no additional coding. Now, its creator and two leading developers teach you all you need to know to write robust cross-platform software with wxWidgets. This book covers everything from dialog boxes to drag-and-drop, from networking to multithreading. It includes all the tools and code you need to get great results, fast. From AMD to AOL, Lockheed Martin to Xerox, world-class developers are using wxWidgets to save money, increase efficiency, and reach new markets. With this book, you can, too. wxWidgets quickstart: event/input handling, window layouts, drawing, printing, dialogs, and more Working with window classes, from simple to advanced Memory management, debugging, error checking, internationalization, and other advanced topics Includes extensive code samples for Windows, Linux (GTK+), and Mac OS X

Over 60 recipes to help you design interactive, smart, and cross-platform GUI applications Key Features Get succinct QT solutions to pressing GUI programming problems in Python Learn how to effectively implement reactive programming Build customized applications that are robust and reliable Book Description PyQt is one of the best cross-platform interface toolkits currently available; it's stable, mature, and completely native. If you want control over all aspects of UI elements, PyQt is what you need. This book will guide you through every concept necessary to create fully functional GUI applications using PyQt, with only a few lines of code. As you expand your GUI using more widgets, you will cover networks, databases, and graphical libraries that greatly enhance its functionality. Next, the book guides you in using Qt Designer to design user interfaces and implementing and testing dialogs, events, the clipboard, and drag and drop functionality to customize your GUI. You will learn a variety of topics, such as look and feel customization, GUI animation, graphics rendering, implementing Google Maps, and more. Lastly, the book takes you through how Qt5 can help you to create cross-platform apps that are compatible with Android and iOS. You will be able to develop functional and appealing software using

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PyQt through interesting and fun recipes that will expand your knowledge of GUIs
What you will learn Use basic Qt components, such as a radio button, combo box, and sliders Use QSpinBox and sliders to handle different signals generated on mouse clicks Work with different Qt layouts to meet user interface requirements Create custom widgets and set up customizations in your GUI Perform asynchronous I/O operations and thread handling in the Python GUI Employ network concepts, internet browsing, and Google Maps in UI Use graphics rendering and implement animation in your GUI Make your GUI application compatible with Android and iOS devices Who this book is for If you're an intermediate Python programmer wishing to enhance your coding skills by writing powerful GUIs in Python using PyQT, this is the book for you.
Geometry Management, Event Handling, and more About This Book A Practical, guide to learn the application of Python and GUI programming with tkinter Create multiple cross-platform real-world projects by integrating host of third party libraries and tools Learn to build beautiful and highly interactive user interfaces, targeting multiple devices. Who This Book Is For This book is for a beginner to intermediate-level Pythonists who want to build modern, cross-platform GUI applications with the amazingly powerful Tkinter. Prior knowledge of Tkinter is required. What You Will Learn A Practical, guide to help you learn the application of Python and GUI programming with Tkinter Create multiple, cross-platform, real-world projects by integrating a host of third-party libraries and tools Learn to build beautiful and highly interactive user interfaces, targeting multiple devices. In Detail Tkinter is the built-in GUI package that comes with standard Python distributions. It is a cross-platform package, which means you build once and deploy everywhere. It is simple to use and intuitive in nature, making it suitable for programmers and non-programmers alike. This book will help you master the art of GUI programming. It delivers the bigger picture of GUI programming by building real-world, productive, and fun applications such as a text editor, drum machine, game of chess, audio player, drawing application, piano tutor, chat application, screen saver, port scanner, and much more. In every project, you will build on the skills acquired in the previous project and gain more expertise. You will learn to write multithreaded programs, network programs, database-driven programs, asyncio based programming and more. You will also get to know the modern best practices involved in writing GUI apps. With its rich source of sample code, you can build upon the knowledge gained with this book and use it in your own projects in the discipline of your choice. Style and approach An easy-to-follow guide, full of hands-on examples of real-world GUI programs. The first chapter is a must-read as it explains most of the things you need to get started with writing GUI programs with Tkinter. Each subsequent chapter is a stand-alone project that discusses some aspects of GUI programming in detail. These chapters can be read sequentially or randomly, depending on the reader's experience with Python. Downloading the example code for this book You can download the example code files ...

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Qt is a cross-platform application framework and widget toolkit that is used to create graphical user interface applications that run on a number of different hardware and operating systems. The main aim of this book is to introduce Qt to the reader with simple and easy to understand examples without focusing too much on theory.

Describes how to use wxWidgets, an open-source C++ API, to write GUI applications.

Geometry Management, Event Handling, and more Key Features A Practical, guide to learn the application of Python and GUI programming with tkinter Create multiple cross-platform real-world projects by integrating host of third party libraries and tools Learn to build beautiful and highly interactive user interfaces, targeting multiple devices. Book Description Tkinter is the built-in GUI package that comes with standard Python distributions. It is a cross-platform package, which means you build once and deploy everywhere. It is simple to use and intuitive in nature, making it suitable for programmers and non-programmers alike. This book will help you master the art of GUI programming. It delivers the bigger picture of GUI programming by building real-world, productive, and fun applications such as a text editor, drum machine, game of chess, audio player, drawing application, piano tutor, chat application, screen saver, port scanner, and much more. In every project, you will build on the skills acquired in the previous project and gain more expertise. You will learn to write multithreaded programs, network programs, database-driven programs, asyncio based programming and more. You will also get to know the modern best practices involved in writing GUI apps. With its rich source of sample code, you can build upon the knowledge gained with this book and use it in your own projects in the discipline of your choice. What you will learn -A Practical, guide to help you learn the application of Python and GUI programming with Tkinter - Create multiple, cross-platform, real-world projects by integrating a host of third-party libraries and tools - Learn to build beautiful and highly interactive user interfaces, targeting multiple devices. Who this book is for This book is for a beginner to intermediate-level Pythonists who want to build modern, cross-platform GUI applications with the amazingly powerful Tkinter. Prior knowledge of Tkinter is required.

Whether you're building GUI prototypes or full-fledged cross-platform GUI applications with native look-and-feel, PyQt 4 is your fastest, easiest, most powerful solution. Qt expert Mark Summerfield has written the definitive best-practice guide to PyQt 4 development. With Rapid GUI Programming with Python and Qt you'll learn how to build efficient GUI applications that run on all major operating systems, including Windows, Mac OS X, Linux, and many versions of Unix, using the same source code for all of them. Summerfield systematically introduces every core GUI development technique: from dialogs and windows to data handling; from events to printing; and more. Through the book's realistic examples you'll discover a completely new PyQt 4-based programming approach, as well as coverage of many new topics, from PyQt 4's rich text engine

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to advanced model/view and graphics/view programming. Every key concept is illuminated with realistic, downloadable examples—all tested on Windows, Mac OS X, and Linux with Python 2.5, Qt 4.2, and PyQt 4.2, and on Windows and Linux with Qt 4.3 and PyQt 4.3.

"This book is the best way for beginning developers to learn wxWidgets programming in C++. It is a must-have for programmers thinking of using wxWidgets and those already using it." -Mitch Kapor, founder of Lotus Software and the Open Source Applications Foundation Build advanced cross-platform applications that support native look-and-feel on Windows, Linux, Unix, Mac OS X, and even Pocket PC Master wxWidgets from start to finish—even if you've never built GUI applications before Leverage advanced wxWidgets capabilities: networking, multithreading, streaming, and more CD-ROM: library of development tools, source code, and sample applications Foreword by Mitch Kapor, founder, Lotus Development and Open Source Application Foundation wxWidgets is an easy-to-use, open source C++ API for writing GUI applications that run on Windows, Linux, Unix, Mac OS X, and even Pocket PC-supporting each platform's native look and feel with virtually no additional coding. Now, its creator and two leading developers teach you all you need to know to write robust cross-platform software with wxWidgets. This book covers everything from dialog boxes to drag-and-drop, from networking to multithreading. It includes all the tools and code you need to get great results, fast. From AMD to AOL, Lockheed Martin to Xerox, world-class developers are using wxWidgets to save money, increase efficiency, and reach new markets. With this book, you can, too. wxWidgets quickstart: event/input handling, window layouts, drawing, printing, dialogs, and more Working with window classes, from simple to advanced Memory management, debugging, error checking, internationalization, and other advanced topics Includes extensive code samples for Windows, Linux (GTK+), and Mac OS X About the CD-ROM The CD-ROM contains all of the source code from the book; wxWidgets distributions for Windows, Linux, Unix, Mac OS X, and other platforms; the wxWidgets reference guide; and development tools including the OpenWatcom C++ compiler, the poEdit translation helper, and the DialogBlocks user interface builder. © Copyright Pearson Education. All rights reserved.

Enhance your cross-platform programming abilities with the powerful features and capabilities of Qt 6 Key Features Leverage Qt and C++ capabilities to create modern, cross-platform applications that can run on a wide variety of software applications Explore what's new in Qt 6 and understand core concepts in depth Build professional customized GUI applications with the help of Qt Creator Book Description Qt is a cross-platform application development framework widely used for developing applications that can run on a wide range of hardware platforms with little to no change in the underlying codebase. If you have basic knowledge of C++ and want to build desktop or mobile applications with a modern graphical user interface (GUI), Qt is the right choice for you. Cross-Platform Development with Qt 6 and Modern C++ helps you understand why Qt is one of the favorite GUI frameworks adopted by industries worldwide, covering the essentials of programming GUI apps across a multitude of platforms

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using the standard C++17 and Qt 6 features. Starting with the fundamentals of the Qt framework, including the features offered by Qt Creator, this practical guide will show you how to create classic user interfaces using Qt Widgets and touch-friendly user interfaces using Qt Quick. As you advance, you'll explore the Qt Creator IDE for developing applications for multiple desktops as well as for embedded and mobile platforms. You will also learn advanced concepts about signals and slots. Finally, the book takes you through debugging and testing your app with Qt Creator IDE. By the end of this book, you'll be able to build cross-platform applications with a modern GUI along with the speed and power of native apps. What you will learn

- Write cross-platform code using the Qt framework to create interactive applications
- Build a desktop application using Qt Widgets
- Create a touch-friendly user interface with Qt Quick
- Develop a mobile application using Qt and deploy it on different platforms
- Get to grips with Model/View programming with Qt Widgets and Qt Quick
- Discover Qt's graphics framework and add animations to your user interface
- Write test cases using the Qt Test framework and debug code
- Build a translation-aware application
- Follow best practices in Qt to write high-performance code

Who this book is for This book is for application developers who want to use C++ and Qt to create modern, responsive applications that can be deployed to multiple operating systems such as Microsoft Windows, Apple macOS, and Linux desktop platforms. Although no prior knowledge of Qt is expected, beginner-level knowledge of the C++ programming language and object-oriented programming system (OOPs) concepts will be helpful.

Create real-time server-side applications with this practical, step-by-step guide

About This Book Learn about server-side JavaScript with Node.js and Node modules through the most up-to-date book on Node.js web development

Understand website development both with and without the Connect/Express web application framework

Develop both HTTP server and client applications

Who This Book Is For This book is for anybody looking for an alternative to the "P" languages (Perl, PHP, and Python), or anyone looking for a new paradigm of server-side application development. You should have at least a rudimentary understanding of JavaScript and web application development.

What You Will Learn

- Install and use Node.js for both development and deployment
- Use the Express application framework
- Configure Bootstrap for mobile-first theming
- Use data storage engines such as MySQL, SQLITE3, and MongoDB
- Understand user authentication methods, including OAuth, with third-party services
- Deploy Node.js to live servers, including microservice development with Docker
- Perform unit testing with Mocha
- Perform functional testing of the web application with CasperJS

In Detail Node.js is a server-side JavaScript platform using an event driven, non-blocking I/O model allowing users to build fast and scalable data-intensive applications running in real time. Node.js Web Development shows JavaScript is not just for browser-side applications. It can be used for server-side web application development, real-time applications, microservices, and much more. This book gives you an excellent starting point, bringing you straight to the heart of developing web applications with Node.js. You will progress from a rudimentary knowledge of JavaScript and server-side development to being able to create and maintain your own Node.js application. With this book you'll learn how to use the HTTP Server and Client objects, data storage with both SQL and MongoDB databases, real-time applications with Socket.IO, mobile-first theming with Bootstrap, microservice deployment with Docker, authenticating against third-party services using OAuth, and much more.

Style and Approach This book is a practical guide for anyone looking to develop striking and robust web applications using Node.js.

Cross-Platform GUI Programming with wxWidgets Prentice Hall Professional

Learn GUI programming using Qt4, the powerful crossplatform framework, with the only official Qt book approved by Trolltech.

A book and CD-ROM package provides a Mosaic navigating browser and a collection of hard-to-find resources from such vendors as Adobe, Apple, IBM, Microsoft, and Silicon Graphics, as

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well as test images and code examples. Original. (Advanced).

Create visually appealing and feature-rich applications by using Qt 5 and the C++ language

Key Features Explore Qt 5's powerful features to easily design your GUI application Leverage Qt 5 to build attractive cross-platform applications Work with Qt modules for multimedia, networking, and location, to customize your Qt applications

Book Description Qt 5, the latest version of Qt, enables you to develop applications with complex user interfaces for multiple targets. It provides you with faster and smarter ways to create modern UIs and applications for multiple platforms. This book will teach you to design and build graphical user interfaces that are functional, appealing, and user-friendly. In the initial part of the book, you will learn what Qt 5 is and what you can do with it. You will explore the Qt Designer, discover the different types of widgets generally used in Qt 5, and then connect your application to the database to perform dynamic operations. Next, you will be introduced to Qt 5 chart which allows you to easily render different types of graphs and charts and incorporate List View Widgets in your application. You will also work with various Qt modules, like QtLocation, QtWebEngine, and the networking module through the course of the book. Finally, we will focus on cross-platform development with QT 5 that enables you to code once and run it everywhere, including mobile platforms. By the end of this book, you will have successfully learned about high-end GUI applications and will be capable of building many more powerful, cross-platform applications. What you will learn

Implement tools provided by Qt 5 to design a beautiful GUI Understand different types of graphs and charts supported by Qt 5 Create a web browser using the Qt 5 WebEngine module and web view widget Connect to the MySQL database and display data obtained from it onto the Qt 5 GUI Incorporate the Qt 5 multimedia and networking module in your application Develop Google Map-like applications using Qt 5's location module Discover cross-platform development by exporting the Qt 5 application to different platforms Uncover the secrets behind debugging Qt 5 and C++ applications Who this book is for This book will appeal to developers and programmers who would like to build GUI-based applications. Basic knowledge of C++ is necessary and the basics of Qt would be helpful.

An Introduction to Programming by the Inventor of C++ Preparation for Programming in the Real World The book assumes that you aim eventually to write non-trivial programs, whether for work in software development or in some other technical field. Focus on Fundamental Concepts and Techniques The book explains fundamental concepts and techniques in greater depth than traditional introductions. This approach will give you a solid foundation for writing useful, correct, maintainable, and efficient code. Programming with Today's C++ (C++11 and C++14) The book is an introduction to programming in general, including object-oriented programming and generic programming. It is also a solid introduction to the C++ programming language, one of the most widely used languages for real-world software. The book presents modern C++ programming techniques from the start, introducing the C++ standard library and C++11 and C++14 features to simplify programming tasks. For Beginners--And Anyone Who Wants to Learn Something New The book is primarily designed for people who have never programmed before, and it has been tested with many thousands of first-year university students. It has also been extensively used for self-study. Also, practitioners and advanced students have gained new insight and guidance by seeing how a master approaches the elements of his art. Provides a Broad View The first half of the book covers a wide range of essential concepts, design and programming techniques, language features, and libraries. Those will enable you to write programs involving input, output, computation, and simple graphics. The second half explores more specialized topics (such as text processing, testing, and the C programming language) and provides abundant reference material. Source code and support supplements are available from the author's website.

"Look it up in Petzold" remains the decisive last word in answering questions about Windows development. And in PROGRAMMING WINDOWS, FIFTH EDITION, the esteemed Windows

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Pioneer Award winner revises his classic text with authoritative coverage of the latest versions of the Windows operating system—once again drilling down to the essential API heart of Win32 programming. Topics include: The basics—input, output, dialog boxes An introduction to Unicode Graphics—drawing, text and fonts, bitmaps and metafiles The kernel and the printer Sound and music Dynamic-link libraries Multitasking and multithreading The Multiple-Document Interface Programming for the Internet and intranets Packed as always with definitive examples, this newest Petzold delivers the ultimate sourcebook and tutorial for Windows programmers at all levels working with Microsoft Windows 95, Windows 98, or Microsoft Windows NT. No aspiring or experienced developer can afford to be without it. An electronic version of this book is available on the companion CD. For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

An advanced guide to creating powerful high-performance GUIs for modern, media-rich applications in various domains such as business and game development

Key Features

- Gain comprehensive knowledge of Python GUI development using PyQt 5.12
- Explore advanced topics including multithreaded programming, 3D animation, and SQL databases
- Build cross-platform GUIs for Windows, macOS, Linux, and Raspberry Pi

Book Description

PyQt5 has long been the most powerful and comprehensive GUI framework available for Python, yet there is a lack of cohesive resources available to teach Python programmers how to use it. This book aims to remedy the problem by providing comprehensive coverage of GUI development with PyQt5. You will get started with an introduction to PyQt5, before going on to develop stunning GUIs with modern features. You will then learn how to build forms using QWidgets and learn about important aspects of GUI development such as layouts, size policies, and event-driven programming. Moving ahead, you'll discover PyQt5's most powerful features through chapters on audio-visual programming with QtMultimedia, database-driven software with QtSQL, and web browsing with QtWebEngine. Next, in-depth coverage of multithreading and asynchronous programming will help you run tasks asynchronously and build high-concurrency processes with ease. In later chapters, you'll gain insights into QOpenGLWidget, along with mastering techniques for creating 2D graphics with QPainter. You'll also explore PyQt on a Raspberry Pi and interface it with remote systems using QtNetwork. Finally, you will learn how to distribute your applications using setuptools and PyInstaller. By the end of this book, you will have the skills you need to develop robust GUI applications using PyQt. What you will learn

- Get to grips with the inner workings of PyQt5
- Learn how elements in a GUI application communicate with signals and slots
- Learn techniques for styling an application
- Explore database-driven applications with the QtSQL module
- Create 2D graphics with QPainter
- Delve into 3D graphics with QOpenGLWidget
- Build network and web-aware applications with QtNetwork and QtWebEngine

Who this book is for This book is for programmers who want to create attractive, functional, and powerful GUIs using the Python language. You'll also find this book useful if you are a student, professional, or anyone who wants to start exploring GUIs or take your

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skills to the next level. Although prior knowledge of the Python language is assumed, experience with PyQt, Qt, or GUI programming is not required. Use Qt 5 to design and build functional, appealing, and user-friendly graphical user interfaces (GUIs) for your applications. Key Features Learn to use Qt 5 to design and customize the look and feel of your application Improve the visual quality of an application by using graphics rendering and animation Understand the balance of presentation and web content that will make an application appealing yet functional Book Description With the growing need to develop GUIs for multiple targets and multiple screens, improving the visual quality of your application becomes important so that it stands out from your competitors. With its cross-platform ability and the latest UI paradigms, Qt makes it possible to build intuitive, interactive, and user-friendly user interfaces for your applications. Qt5 C++ GUI Programming Cookbook, Second Edition teaches you how to develop functional and appealing user interfaces using the latest version of QT5 and C++. This book will help you learn a variety of topics such as GUI customization and animation, graphics rendering, implementing Google Maps, and more. You will also be taken through advanced concepts like asynchronous programming, event handling using signals and slots, network programming, various aspects of optimizing your application. By the end of the book, you will be confident to design and customize GUI applications that meet your clients' expectations and have an understanding of best practice solutions for common problems. What you will learn Animate GUI elements using Qt5's built-in animation system Draw shapes and 2D images using Qt5's powerful rendering system Implement an industry-standard OpenGL library in your project Build a mobile app that supports touch events and exports it onto devices Parse and extract data from an XML file and present it on your GUI Interact with web content by calling JavaScript functions from C++ Access MySQL and SQLite databases to retrieve data and display it on your GUI Who this book is for This intermediate-level book is designed for those who want to develop software using Qt 5. If you want to improve the visual quality and content presentation of your software application, this book is for you. Prior experience of C++ programming is required. This easy-to-use, fast-moving tutorial introduces you to functional programming with Haskell. You'll learn how to use Haskell in a variety of practical ways, from short scripts to large and demanding applications. Real World Haskell takes you through the basics of functional programming at a brisk pace, and then helps you increase your understanding of Haskell in real-world issues like I/O, performance, dealing with data, concurrency, and more as you move through each chapter. Learn to rapidly build and deploy cross-platform applications from a single codebase with practical, real-world solutions using the mature Delphi 10.4 programming environment Key Features Implement Delphi's modern features to build professional-grade Windows, web, mobile, and IoT applications and powerful servers Become a Delphi code and project guru by learning best practices and techniques for cross-platform development Deploy your complete

end-to-end application suite anywhere Book Description Delphi is a strongly typed, event-driven programming language with a rich ecosystem of frameworks and support tools. It comes with an extensive set of web and database libraries for rapid application development on desktop, mobile, and internet-enabled devices. This book will help you keep up with the latest IDE features and provide a sound foundation of project management and recent language enhancements to take your productivity to the next level. You'll discover how simple it is to support popular mobile device features such as sensors, cameras, and GPS. The book will help you feel comfortable working with FireMonkey and styles and incorporating 3D user interfaces in new ways. As you advance, you'll be able to build cross-platform solutions that not only look native but also take advantage of a wide array of device capabilities. You'll also learn how to use embedded databases, such as SQLite and InterBase ToGo, synchronizing them with your own custom backend servers or modules using the powerful RAD Server engine. The book concludes by sharing tips for testing and deploying your end-to-end application suite for a smooth user experience. By the end of this book, you'll be able to deliver modern enterprise applications using Delphi confidently. What you will learn Discover the latest enhancements in the Delphi IDE Overcome the barriers that hold you back from embracing cross-platform development Become fluent with FireMonkey controls, styles, LiveBindings, and 3D objects Build Delphi packages to extend RAD Server or modularize your applications Use FireDAC to get quick and direct access to any data Leverage IoT technologies such as Bluetooth and Beacons and learn how to put your app on a Raspberry Pi Enable remote apps with backend servers on Windows and Linux through REST APIs Develop modules for IIS and Apache web servers Who this book is for This book is for Delphi developers interested in expanding their skillset beyond Windows programming by creating professional-grade applications on multiple platforms, including Windows, Mac, iOS, Android, and back-office servers. You'll also find this book useful if you're a developer looking to upgrade your knowledge of Delphi to keep up with the latest changes and enhancements in this powerful toolset. Some Delphi programming experience is necessary to make the most out of this book.

The Hitchhiker's Guide to Python takes the journeyman Pythonista to true expertise. More than any other language, Python was created with the philosophy of simplicity and parsimony. Now 25 years old, Python has become the primary or secondary language (after SQL) for many business users. With popularity comes diversity—and possibly dilution. This guide, collaboratively written by over a hundred members of the Python community, describes best practices currently used by package and application developers. Unlike other books for this audience, The Hitchhiker's Guide is light on reusable code and heavier on design philosophy, directing the reader to excellent sources that already exist.

Use Qt5 to design and build a graphical user interface that is functional,

appealing, and user-friendly for your software application About This Book Learn to make use of Qt5 to design and customize the look-and-feel of your application Improve the visual quality of your application by utilizing the graphic rendering system and animation system provided by Qt5 A good balance of visual presentation and its contents will make an application appealing yet functional Who This Book Is For This book intended for those who want to develop software using Qt5. If you want to improve the visual quality and content presentation of your software application, this book is best suited to you. What You Will Learn Customize the look and feel of your application using the widget editor provided by Qt5 Change the states of the GUI elements to make them appear in a different form Animating the GUI elements using the built-in animation system provided by Qt5 Draw shapes and 2D images in your application using Qt5's powerful rendering system Draw 3D graphics in your application by implementing OpenGL, an industry-standard graphical library to your project Build a mobile app that supports touch events and export it to your device Parse and extract data from an XML file, then present it on your software's GUI Display web content on your program and interact with it by calling JavaScript functions from C++, or calling C++ functions from the web content Access to MySQL and SQLite databases to retrieve data and display it on your software's GUI In Detail With the advancement of computer technology, the software market is exploding with tons of software choices for the user, making their expectations higher in terms of functionality and the look and feel of the application. Therefore, improving the visual quality of your application is vital in order to overcome the market competition and stand out from the crowd. This book will teach you how to develop functional and appealing software using Qt5 through multiple projects that are interesting and fun. This book covers a variety of topics such as look-and-feel customization, GUI animation, graphics rendering, implementing Google Maps, and more. You will learn tons of useful information, and enjoy the process of working on the creative projects provided in this book. Style and approach This book focuses on customizing the look and feel and utilizing the graphical features provided by Qt5. It takes a step-by-step approach, providing tons of screenshots and sample code for you to follow and learn. Each topic is explained sequentially and placed in context.

This book is your guide to visual programming with Delphi and FireMonkey (FMX). FMX is a cross-platform application framework that helps you deliver modern applications with a Graphical User Interface (GUI). You will learn FMX's UI-related features and capabilities together with useful techniques to achieve a rich user experience (UX).

Leverage the power of Python and its de facto GUI framework to build highly interactive interfaces Key Features The fundamentals of Python and GUI programming with Tkinter. Create multiple cross-platform projects by integrating a host of third-party libraries and tools. Build beautiful and highly-interactive user interfaces that target multiple devices. Book Description Tkinter is a modular,

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cross-platform application development toolkit for Python. When developing GUI-rich applications, the most important choices are which programming language(s) and which GUI framework to use. Python and Tkinter prove to be a great combination. This book will get you familiar with Tkinter by having you create fun and interactive projects. These projects have varying degrees of complexity. We'll start with a simple project, where you'll learn the fundamentals of GUI programming and the basics of working with a Tkinter application. After getting the basics right, we'll move on to creating a project of slightly increased complexity, such as a highly customizable Python editor. In the next project, we'll crank up the complexity level to create an instant messaging app. Toward the end, we'll discuss various ways of packaging our applications so that they can be shared and installed on other machines without the user having to learn how to install and run Python programs. What you will learn

- Create a scrollable frame via theCanvas widget
- Use the pack geometry manager andFrame widget to control layout
- Learn to choose a data structurefor a game
- Group Tkinter widgets, such asbuttons, canvases, and labels
- Create a highly customizablePython editor
- Design and lay out a chat window

Who this book is for This book is for beginners to GUI programming who haven't used Tkinter yet and are eager to start building great-looking and user-friendly GUIs. Prior knowledge of Python programming is expected.

The Only Official, Best-Practice Guide to Qt 4.3 Programming Using Trolltech's Qt you can build industrial-strength C++ applications that run natively on Windows, Linux/Unix, Mac OS X, and embedded Linux without source code changes. Now, two Trolltech insiders have written a start-to-finish guide to getting outstanding results with the latest version of Qt: Qt 4.3. Packed with realistic examples and in-depth advice, this is the book Trolltech uses to teach Qt to its own new hires. Extensively revised and expanded, it reveals today's best Qt programming patterns for everything from implementing model/view architecture to using Qt 4.3's improved graphics support. You'll find proven solutions for virtually every GUI development task, as well as sophisticated techniques for providing database access, integrating XML, using subclassing, composition, and more. Whether you're new to Qt or upgrading from an older version, this book can help you accomplish everything that Qt 4.3 makes possible. Completely updated throughout, with significant new coverage of databases, XML, and Qtopia embedded programming

- Covers all Qt 4.2/4.3 changes, including Windows Vista support, native CSS support for widget styling, and SVG file generation
- Contains separate 2D and 3D chapters, coverage of Qt 4.3's new graphics view classes, and an introduction to QPainter's OpenGL back-end
- Includes new chapters on look-and-feel customization and application scripting
- Illustrates Qt 4's model/view architecture, plugin support, layout management, event processing, container classes, and much more
- Presents advanced techniques covered in no other book—from creating plugins to interfacing with native APIs
- Includes a new appendix on Qt Jambi, the new Java version of Qt

Learn the complete Qt ecosystem and its tools and build UIs for mobile and desktop applications

- Key Features
- Unleash the power of the latest Qt 5.9 with C++14
- Easily compile, run, and debug your applications from the powerful Qt Creator IDE
- Build multi-

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platform projects that target Android, iOS, Windows, MacOS, Linux, and more

Book Description Qt 5.9 is an application development framework that provides a great user experience and develops full-capability applications with Qt Widgets, QML, and even Qt 3D. This learning path demonstrates the power and flexibility of the Qt framework for desktop application development and shows how you can write an application once and deploy it to multiple operating systems. It will address all the challenges while developing cross-platform applications with the Qt framework. This course will give you a better understanding of the Qt framework and tools to resolve serious issues such as linking, debugging, and multithreading. It will also upskill you by explaining how to create a to-do-style app and taking you through all the stages in building a successful project. You will build a suite of apps; while developing these apps, you'll deepen your knowledge of Qt Quick's layout systems, and see Qt 3D and widgets in action. The next project will be in the industrial and agricultural sectors: making sense of sensor data via a monitoring system. Your apps should run seamlessly across devices and operating systems such as Android, iOS, Windows, or Mac, and be cost-effective by integrating with existing web technologies. You take the role of lead developer and prototype a monitoring system. In doing so, you'll get to know Qt's Bluetooth and HTTP APIs, as well as the Charts and Web Engine UI modules. These projects will help you gain a holistic view of the Qt framework. What you will learn

- Install and configure the Qt Framework and Qt Creator IDE
- Implement a rich user interface with QML
- Learn the fundamentals of QTest and how to integrate unit testing
- Create stunning UIs with Qt Widget and Qt Quick
- Develop powerful, cross-platform applications with the Qt framework
- Design GUIs with Qt Designer and build a library in it for UI previews
- Build a desktop UI with widgets and Designer
- Get familiar with multimedia components to handle visual input and output

Who this book is for This book will appeal to developers and programmers who would like to build GUI-based applications. Knowledge of C++ is necessary and a basic familiarity with Qt would be helpful.

This is not your typical, dime-a-dozen SOA book. Whereas many other books focus on the front-end of SOA, this book focuses on the backend. This is the book that tells developers how to actually connect to the Heritage data silo/application that other books just draw a box around and say, "Connect somehow." This book addresses that problem. The first five chapters of this book provides an eye-opening overview for Management. The remaining seven chapters are for programmers.

What You'll Learn

- from the Book Port FMS-based business applications to Intranet or Internet applications using ACMS
- ACMS fundamentals
- How to connect to the Heritage data silo/application
- Service Oriented Architecture principles

An definitive overview of Qt explains how to use this powerful, cross-platform GUI toolkit to create applications for the UNIX and Win32 environments, detailing the GUI elements in Qt and how to use them, and includes information on 2D transformations, drag-and-drop, and custom image file filters. Original. (Advanced).

If you're building GUI prototypes or cross-platform GUI applications, then this book is your fastest and most powerful solution. It will address challenges in developing cross-platform applications with the Qt framework. With every chapter you'll take a step closer to mastering Qt. By the end, you'll have an application that is ready to be shipped.

This book is an in-depth introduction to Erlang, a programming language ideal for any

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situation where concurrency, fault tolerance, and fast response is essential. Erlang is gaining widespread adoption with the advent of multi-core processors and their new scalable approach to concurrency. With this guide you'll learn how to write complex concurrent programs in Erlang, regardless of your programming background or experience. Written by leaders of the international Erlang community -- and based on their training material -- Erlang Programming focuses on the language's syntax and semantics, and explains pattern matching, proper lists, recursion, debugging, networking, and concurrency. This book helps you: Understand the strengths of Erlang and why its designers included specific features Learn the concepts behind concurrency and Erlang's way of handling it Write efficient Erlang programs while keeping code neat and readable Discover how Erlang fills the requirements for distributed systems Add simple graphical user interfaces with little effort Learn Erlang's tracing mechanisms for debugging concurrent and distributed systems Use the built-in Mnesia database and other table storage features Erlang Programming provides exercises at the end of each chapter and simple examples throughout the book. Learn GUI application development from the ground up, taking a practical approach by building simple projects that teach the fundamentals of using PyQt. Each chapter gradually moves on to teach more advanced and diverse concepts to aid you in designing interesting applications using the latest version of PyQt. You'll start by reviewing the beginning steps of GUI development from, using different projects in every chapter to teach new widgets or concepts that will help you to build better UIs. As you follow along, you will construct more elaborate GUIs, covering topics that include storing data using the clipboard, graphics and animation, support for SQL databases, and multithreading applications. Using this knowledge, you'll be able to build a photo editor, games, a text editor, a working web browser and an assortment of other GUIs. Beginning PyQt will guide you through the process of creating UIs to help you bring your own ideas to life. Learn what is necessary to begin making your own applications and more with PyQt! What You'll Learn Create your own cross-platform GUIs with PyQt and Python Use PyQt's many widgets and apply them to building real applications Build larger applications and break the steps into smaller parts for deeper understanding Work with complex applications in PyQt, from animation to databases and more Who This Book Is For Individuals who already have a fundamental understanding of the Python programming language and are looking to either expand their skills in Python or have a project where they need to create a UI, but may have no prior experience or no idea how to begin. Find out how to create visually stunning and feature-rich applications by empowering Python's built-in Tkinter GUI toolkit Key Features Explore Tkinter's powerful features to easily design and customize your GUI application Learn the basics of 2D and 3D animation in GUI applications. Learn to integrate stunning Data Visualizations using Tkinter Canvas and Matplotlib. Book Description Tkinter is a lightweight, portable, and easy-to-use graphical toolkit available in the Python Standard Library, widely used to build Python GUIs due to its simplicity and availability. This book teaches you to design and build graphical user interfaces that are functional, appealing, and user-friendly using the powerful combination of Python and Tkinter. After being introduced to Tkinter, you will be guided step-by-step through the application development process. Over the course of the book, your application will evolve from a simple data-entry form to a

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complex data management and visualization tool while maintaining a clean and robust design. In addition to building the GUI, you'll learn how to connect to external databases and network resources, test your code to avoid errors, and maximize performance using asynchronous programming. You'll make the most of Tkinter's cross-platform availability by learning how to maintain compatibility, mimic platform-native look and feel, and build executables for deployment across popular computing platforms. By the end of this book, you will have the skills and confidence to design and build powerful high-end GUI applications to solve real-world problems. What you will learn Implement the tools provided by Tkinter to design beautiful GUIs Discover cross-platform development through minor customizations in your existing application Visualize graphs in real time as data comes in using Tkinter's animation capabilities Use PostgreSQL authentication to ensure data security for your application Write unit tests to avoid regressions when updating code Who this book is for This book will appeal to developers and programmers who would like to build GUI-based applications. Knowledge of Python is a prerequisite.

Cross-Platform Development in C++ is the definitive guide to developing portable C/C++ application code that will run natively on Windows, Macintosh, and Linux/Unix platforms without compromising functionality, usability, or quality. Long-time Mozilla and Netscape developer Syd Logan systematically addresses all the technical and management challenges associated with software portability from planning and design through coding, testing, and deployment. Drawing on his extensive experience with cross-platform development, Logan thoroughly covers issues ranging from the use of native APIs to the latest strategies for portable GUI development. Along the way, he demonstrates how to achieve feature parity while avoiding the problems inherent to traditional cross-platform development approaches. This book will be an indispensable resource for every software professional and technical manager who is building new cross-platform software, porting existing C/C++ software, or planning software that may someday require cross-platform support. Build Cross-Platform Applications without Compromise Throughout the book, Logan illuminates his techniques with realistic scenarios and extensive, downloadable code examples, including a complete cross-platform GUI toolkit based on Mozilla's XUL that you can download, modify, and learn from. Coverage includes Policies and procedures used by Netscape, enabling them to ship Web browsers to millions of users on Windows, Mac OS, and Linux Delivering functionality and interfaces that are consistent on all platforms Understanding key similarities and differences among leading platform-specific GUI APIs, including Win32/.NET, Cocoa, and Gtk+ Determining when and when not to use native IDEs and how to limit their impact on portability Leveraging standards-based APIs, including POSIX and STL Avoiding hidden portability pitfalls associated with floating point, char types, data serialization, and types in C++ Utilizing platform abstraction libraries such as the Netscape Portable Runtime (NSPR) Establishing an effective cross-platform bug reporting and tracking system Creating builds for multiple platforms and detecting build failures across platforms when they occur Understanding the native runtime

environment and its impact on installation Utilizing wxWidgets to create multi-platform GUI applications from a single code base Thoroughly testing application portability Understanding cross-platform GUI toolkit design with Trixul

The financial markets industry is at the same crossroads as the automotive industry in the late 1970s. Margins are collapsing and customization is rapidly increasing. The automotive industry turned to quality and its no coincidence that in the money management industry many of the spectacular failures have been due largely to problems in quality control. The financial industry is on the verge of a quality revolution. New and old firms alike are creating new investment vehicles and new strategies that are radically changing the nature of the industry. To compete, mutual funds, hedge fund industries, banks and proprietary trading firms are being forced to quickly research, test and implement trade selection and execution systems. And, just as in the early stages of factory automation, quality suffers and leads to defects. Many financial firms fall short of quality, lacking processes and methodologies for proper development and evaluation of trading and investment systems. Authors Kumiega and Van Vliet present a new step-by-step methodology for such development. Their methodology (called K|V) has been presented in numerous journal articles and at academic and industry conferences and is rapidly being accepted as the preferred business process for the institutional trading and hedge fund industries for development, presentation, and evaluation of trading and investment systems. The K|V model for trading system development combines new product development, project management and software development methodologies into one robust system. After four stages, the methodology requires repeating the entire waterfall for continuous improvement. The discussion quality and its applications to the front office is presented using lessons learned by the authors after using the methodology in the real world. As a result, it is flexible and modifiable to fit various projects in finance in different types of firms. Their methodology works equally well for short-term trading systems, longer-term portfolio management or mutual fund style investment strategies as well as more sophisticated ones employing derivative instruments in hedge funds. Additionally, readers will be able to quickly modify the standard K|V methodology to meet their unique needs and to quickly build other quantitatively driven applications for finance. At the beginning and the end of Quality Money Management the authors pose a key question: Are you willing to change and embrace quality for the 21st century or are willing to accept extinction? The real gem in this book is that the concepts give the reader a road map to avoid extinction. Presents a robust process engineering framework for developing and evaluating trading and investment systems Best practices along the step-by-step process will mitigate project risk, model risk, and ensure data quality Includes a quality model for backtesting and managing market risk of working systems

Develop more dynamic and robust GUI applications using PySide, an open source cross-platform UI framework About This Book Designed for beginners to

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help you get started with GUI application development Develop your own applications by creating customized widgets and dialogs Written in a simple and elegant structure so you easily understand how to program various GUI components Who This Book Is For This book is written for Python programmers who want to learn about GUI programming. It is also suitable for those who are new to Python but are familiar with object-oriented programming. What You Will Learn Program GUI applications in an easy and efficient way Download and install PySide, a cross-platform GUI development toolkit for Python Create menus, toolbars, status bars, and child windows Develop a text editor application on your own Connect your GUI to a database and manage it Execute SQL queries by handling databases In Detail Elegantly-built GUI applications are always a massive hit among users. PySide is an open source software project that provides Python bindings for the Qt cross-platform UI framework. Combining the power of Qt and Python, PySide provides easy access to the Qt framework for Python developers and also acts as an excellent rapid application development platform. This book will take you through everything you need to know to develop UI applications. You will learn about installing and building PySide in various major operating systems as well as the basics of GUI programming. The book will then move on to discuss event management, signals and slots, and the widgets and dialogs available with PySide. Database interaction and manipulation is also covered. By the end of this book, you will be able to program GUI applications efficiently and master how to develop your own applications and how to run them across platforms. Style and approach This is an accessible and practical guide to developing GUIs for Python applications.

* The only book that shows how to build cross-platform .NET applications: provides hands-on experience with the revolutionary Mono and Portable.NET projects on Linux and Mac OS X. * Describes how to build cross-platform GUIs that run on any .NET implementation. * Promotes best practices through the use of design patterns and automated testing and building tools, such as NUnit and NAnt.

The mission There are many programming languages out there. Most of them brag to be able to create cross-platform applications and to allow you to "easily create rich GUI applications" but miserably fail. In this book, we will actually achieve true cross-platform GUI applications with code that is 100% portable on Windows, Mac, Android, Linux, etc. I promise it WON'T be a bumpy road! Your first Hello World application will be a single EXE file, few MB in size that will run on all major platforms without any additional libraries (Java, runtime DLLs, browsers, etc) required. For whom is this book? This book is specially written for * People that have little in programming * C++ programmers that want to switch to a more productive environment * Programmers that are advanced but never actually did GUI or cross-platform applications What you will learn * What is the best IDE/compiler to develop cross-platform applications (modern, easy, fast, portable) * Basic programming skills * How to debug like a pro * Create GUI

applications * Create less-buggy/more reliable applications * Advanced debugging techniques

Discover Golang's GUI libraries such as Go-GTK (GIMP Toolkit) and Go-Qt and build beautiful, performant, and responsive graphical applications

Key Features

- Conceptualize and build state-of-art GUI applications with Golang (Go)
- Tackle the complexity of varying GUI application sizes with a structured and scalable approach
- Get hands-on experience of GUI development with Shiny, and labs/ui, Fyne, and Walk

Book Description

Go is often compared to C++ when it comes to low-level programming and implementations that require faster processing, such as Graphical User Interfaces (GUIs). In fact, many claim that Go is superior to C++ in terms of its concurrency and ease of use. Most graphical application toolkits, though, are still written using C or C++, and so they don't enjoy the benefits of using a modern programming language such as Go. This guide to programming GUIs with Go 1.11 explores the various toolkits available, including UI, Walk, Shiny, and Fyne. The book compares the vision behind each project to help you pick the right approach for your project. Each framework is described in detail, outlining how you can build performant applications that users will love. To aid you further in creating applications using these emerging technologies, you'll be able to easily refer to code samples and screenshots featured in the book. In addition to toolkit-specific discussions, you'll cover more complex topics, such as how to structure growing graphical applications, and how cross-platform applications can integrate with each desktop operating system to create a seamless user experience. By delving into techniques and best practices for organizing and scaling Go-based graphical applications, you'll also glimpse Go's impressive concurrency system. In the concluding chapters, you'll discover how to distribute to the main desktop marketplaces and distribution channels. By the end of this book, you'll be a confident GUI developer who can use the Go language to boost the performance of your applications.

What you will learn

- Understand the benefits and complexities of building native graphical applications
- Gain insights into how Go makes cross-platform graphical application development simple
- Build platform-native GUI applications using andlabs/ui
- Develop graphical Windows applications using Walk
- Create multiplatform GUI applications using Shiny, Nuklear, and Fyne
- Use Go wrappers for GTK and Qt for GUI application development
- Streamline your requirements to pick the correct toolkit strategy

Who this book is for

This book is designed for Go developers who are interested in building native graphical applications for desktop computers and beyond. Some knowledge of building applications using Go is useful, but not essential. Experience in developing GUIs is not required as the book explores the benefits and challenges they pose. This book will also be beneficial for GUI application developers who are interested in trying Go.

The Fyne GUI toolkit solves many of the challenges relating to traditional technologies and older programming languages. This book introduces the key APIs and techniques behind Fyne applications that make them easy to build.

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From the basics through to building five completed applications, you'll get up to speed with every stage of app development.

Explore Qt Creator, Qt Quick, and QML to design and develop applications that work on desktop, mobile, embedded, and IoT platforms

Key Features

- Build a solid foundation in Qt by learning about its core classes, multithreading, File I/O, and networking
- Learn GUI programming and build custom interfaces using Qt Widgets, Qt Designer, and QML
- Use the latest features of C++17 for improving the performance of your Qt applications

Book Description

Qt is a powerful development framework that serves as a complete toolset for building cross-platform applications, helping you reduce development time and improve productivity. Completely revised and updated to cover C++17 and the latest developments in Qt 5.12, this comprehensive guide is the third edition of *Application Development with Qt Creator*. You'll start by designing a user interface using Qt Designer and learn how to instantiate custom messages, forms, and dialogues. You'll then understand Qt's support for multithreading, a key tool for making applications responsive, and the use of Qt's Model-View-Controller (MVC) to display data and content. As you advance, you'll learn to draw images on screen using Graphics View Framework and create custom widgets that interoperate with Qt Widgets. This Qt programming book takes you through Qt Creator's latest features, such as Qt Quick Controls 2, enhanced CMake support, a new graphical editor for SCXML, and a model editor. You'll even work with multimedia and sensors using Qt Quick, and finally develop applications for mobile, IoT, and embedded devices using Qt Creator. By the end of this Qt book, you'll be able to create your own cross-platform applications from scratch using Qt Creator and the C++ programming language. What you will learn

- Create programs from scratch using the Qt framework and C++ language
- Compile and debug your Qt Quick and C++ applications using Qt Creator
- Implement map view with your Qt application and display device location on the map
- Understand how to call Android and iOS native functions from Qt C++ code
- Localize your application with Qt Linguist
- Explore various Qt Quick components that provide access to audio and video playbacks
- Develop GUI applications using both Qt and Qt Quick

Who this book is for

If you are a beginner looking to harness the power of Qt and the Qt Creator framework for cross-platform development, this book is for you. Although no prior knowledge of Qt and Qt Creator is required, basic knowledge of C++ programming is assumed.

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