

Developing With Delphi Object Oriented Techniques

The main subjects in this book relate to software development using cutting-edge technologies for real-world industrial automation applications. A hands-on approach to applying a wide variety of emerging technologies to modern industrial practice problems. Explains key concepts through clear examples, ranging from simple to more complex problem domains, and all based on real-world industrial problems. A useful reference book for practicing engineers as well as an updated resource book for researchers.

Object-Oriented Programming for Windows 95 and NT brings the power of true object-oriented programming methods to real-world Windows development. The book describes fundamental object-oriented programming methods and explains how readers may apply them within the Windows 95 (and 98) and Windows NT environments using three leading programming tools - Microsoft Visual C++ and Visual Basic and Borland Delphi. Readers will understand how traditional object-oriented principles and techniques correspond to the characteristics of modern operating environments and how OOP approaches can help them more efficiently create genuinely user-friendly applications. The book describes from an object perspective many important Windows programming components and tasks, including: windows and dialog boxes, ActiveX and other controls, menus, event handling, graphics, file access, on-line help, and OLE (object linking and embedding). Object-Oriented Programming for Windows 95 and NT will help both beginning and experienced Windows developers bolster their programming arsenal and can help any developer make the transition from traditional, non-object environments to object-oriented programming methods. Explains development fundamentals for all Windows operating systems. Teaches Windows application development with the three leading tools - Visual C++, Visual Basic, and Borland Delphi.

Quickly learn and employ practical recipes for developing real-world, cross-platform applications using Delphi. Key Features Get to grips with Delphi to build and deploy various cross-platform applications. Design and deploy real-world apps by implementing a single source codebase. Build robust and optimized GUI applications with ease. Book Description Delphi is a cross-platform integrated development environment (IDE) that supports rapid application development on different platforms, saving you the pain of wandering amid GUI widget details or having to tackle inter-platform incompatibilities. Delphi Cookbook begins with the basics of Delphi and gets you acquainted with JSON format strings, XSLT transformations, Unicode encodings, and various types of streams. You'll then move on to more advanced topics such as developing higher-order functions and using enumerators and run-time type information (RTTI). As you make your way through the chapters, you'll understand Delphi RTL functions, use FireMonkey in a VCL application, and cover topics such as multithreading, using a parallel programming library and deploying Delphi on a server. You'll take a look at the new feature of WebBroker Apache modules, join the mobile revolution with FireMonkey, and learn to build data-driven mobile user interfaces using the FireDAC database access framework. This book will also show you how to integrate your apps with Internet of Things (IoT). By the end of the book, you will have become proficient in Delphi by exploring its different aspects such as building cross-platforms and mobile applications, designing server-side programs, and integrating these programs with IoT. What you will learn Develop visually stunning applications using FireMonkey. Deploy LiveBinding effectively with the right object-oriented programming (OOP) approach. Create RESTful web services that run on Linux or Windows. Build mobile apps that read data from a remote server efficiently. Call platform native API on Android and iOS for an unpublished API. Manage software customization by making better use of an extended RTTI. Integrate your application with IOT. Who this book is for Delphi Cookbook is for intermediate developers with a basic knowledge of Delphi who want to discover and understand all the development possibilities offered by it.

Today's business is technology-driven. Information technology plays a key role in today's business environment. A great number of businesses, small and large, rely on computers and software to provide accurate information for effective management of their business and to perform successfully. Readers will learn how to use information technology in work environment. They will learn how to use common business software such as word processing, spreadsheet, database, presentation, and Web browser software, and learn the current issues related to the impact of information technology on businesses. This book is suitable for undergraduate students, professionals, and anyone willing to build a solid foundation of the information technology skills needed at the workplace.

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.

If you're new to object-oriented Windows programming, then this is the Delphi book for you. Here's a quick, easy way to become fluent in Borland's hot, new object-oriented programming language, Delphi. This book will introduce object-oriented programming techniques, and then teach you how to use Delphi by taking you step-by-step through the process of building a full-featured Windows application. Along the way you'll learn:

- Everything you need to know about Object Pascal
- Guidelines for designing intuitive GUIs
- Debugging and testing your applications
- Event handling, exception handling, and error handling
- Using the

runtime libraries and compiling executables

Quickly learn and employ practical recipes for developing real-world, cross-platform applications using Delphi. Key Features Get to grips with Delphi to build and deploy various cross-platform applications Design and deploy real-world apps by implementing a single source codebase Build robust and optimized GUI applications with ease Book Description Delphi is a cross-platform integrated development environment (IDE) that supports rapid application development on different platforms, saving you the pain of wandering amid GUI widget details or having to tackle inter-platform incompatibilities. Delphi Cookbook begins with the basics of Delphi and gets you acquainted with JSON format strings, XSLT transformations, Unicode encodings, and various types of streams. You'll then move on to more advanced topics such as developing higher-order functions and using enumerators and run-time type information (RTTI). As you make your way through the chapters, you'll understand Delphi RTL functions, use FireMonkey in a VCL application, and cover topics such as multithreading, using a parallel programming library and deploying Delphi on a server. You'll take a look at the new feature of WebBroker Apache modules, join the mobile revolution with FireMonkey, and learn to build data-driven mobile user interfaces using the FireDAC database access framework. This book will also show you how to integrate your apps with Internet of Things (IoT). By the end of the book, you will have become proficient in Delphi by exploring its different aspects such as building cross-platforms and mobile applications, designing server-side programs, and integrating these programs with IoT. What you will learn Develop visually stunning applications using FireMonkey Deploy LiveBinding effectively with the right object-oriented programming (OOP) approach Create RESTful web services that run on Linux or Windows Build mobile apps that read data from a remote server efficiently Call platform native API on Android and iOS for an unpublished API Manage software customization by making better use of an extended RTTI Integrate your application with IOT Who this book is for Delphi Cookbook is for intermediate developers with a basic knowledge of Delphi who want to discover and understand all the development possibilities offered by it. The main purpose of this monograph is to introduce the up-to-date technology of software development for different applied problems solution as one of the most important spheres of modern engineering activity. It is absolutely obvious today that the role of information technology in everyday engineering activity rises steeply. Moreover, the efficient skills in information technology form the obligatory and essential part of the qualification requirements to modern engineer.

Borland(r) Delphi 6 Developer's Guide is a new edition of the #1 best-selling Delphi book by authors Steve Teixeira and Xavier Pacheco. Steve and Xavier are of the winners of the Delphi Informant Reader's Choice Award for both Delphi 4 Developer's Guide and Delphi 5 Developer's Guide. Borland(r) Delphi 6 Developer's Guide is completely updated for Delphi 6 and includes in-depth coverage on Borland's new CLX architecture, DBExpress Applications, SOAP,

CORBA, WebSnap and BizSnap features. It continues as a complete reference and authoritative guide to the newest version of Delphi.

Welcome to OOIS'01 and Calgary! This is the 7th International Conference on Object-Oriented Information Systems (OOIS) that focus on Object-Oriented and Web-Based Frameworks for Information Systems. In the last few years we've seen significant new development in this field, from one-off design technologies to reusable frameworks, and from web applications to bioinformatic systems. We perceive that information processing is one of the most important activities of human beings. Object-orientation and frameworks have been the main-stream technologies for design and implementation of large-scale and complex information systems. Recent research advances and industrial innovations in information systems modeling and Internet applications have explored the new trends in shifting information system vendors from component and system developers to services providers. Users of information systems are increasingly demanding higher performance, mobility, and personalization in order to realize the dream to access and obtain necessary information anywhere and anytime. The new development requires the investigation of new architectures, frameworks, processes, and inter-connectivity of information systems at society, organization, team, and personal levels. The OOIS'01 Proceedings has put together a program of 53 papers from leading researchers and practitioners in the field of object technology and information systems.

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

This second edition shows readers how to build object oriented applications in Java. Written in a clear and concise style, with lots of examples, this revised edition provides: a detailed understanding of object orientation, a thorough introduction to Java including building blocks, constructs, classes, data structures etc, coverage of graphical user interfaces and applets (AWT; Servlets), and object oriented analysis. If you are looking for a good introduction to Java and object orientation, then this is the book for you. Source code for the examples in this book is available on the Internet.

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

An application-oriented guide to getting the most out of Delphi in object-oriented programming.

Offers step-by-step instructions on how to develop personalized custom controls for Delphi applications, and provides detailed coverage on flexible VCL component architecture, debugging, and Object-Oriented Programming. Original. (Advanced)

Delphi is a new Windows software development environment from Borland. Released in 1995, it has quickly built up an excellent reputation as one of the best Windows software development tools. John Cowell shows how to program in Delphi using various tools. He provides lots of examples and illustrations and describes various

database specific tools included with the Delphi package. The book shows how to use the Borland database engine along with other database formats (including Microsoft's Access). There are a number of chapters which cover the object-oriented aspects of Pascal, and advanced programming techniques such as drag-and-drop, DDE, OLE, and the creation of on-line help systems are also looked at. New users, as well as current Visual Basic users wanting to get up to speed on Delphi, will find this clear and informative book provides all the information they need to develop Windows applications quickly, competently, and easily.

This book mainly introduces the basic concepts, principles and applications of software engineering, including: software engineering overview, software requirements analysis, overall design, detailed design, software coding and testing, and software maintenance. Which focuses on the object-oriented development method. In the layout of this book, it focuses on the combination of theory and practice, uses case teaching mode, highlights practical links, and sets up task description, task analysis, knowledge preparation, task implementation, knowledge linking, expansion and improvement, operating skills, and project summary. This book can be used as a reference for software training and software developers.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

" Inprise/Borland's Delphi " may be the best Windows Rapid Application Development tool currently available. It offers full support for COM and ActiveX, an object-oriented widget library called the Visual Component Library, and an extensible and customizable rapid application development environment. Delphi in a Nutshell is the comprehensive reference to the programming language for this powerful RAD development tool.

"Delphi in a Nutshell" begins with an introduction to Delphi Pascal and a clear discussion of the Delphi object model. It then covers RTTI, the key to Delphi's development environment, which is often poorly documented in other sources such as Delphi's official help files. The book also includes a chapter on concurrent programming in Delphi and the creation of multithreaded applications. The bulk of the book is a complete ordered reference to the Delphi language set. Each reference item includes : the syntax, using standard code conventions. A description. A list of arguments, if any, accepted by the function or procedure. Tips and tricks of usage-practical information on using the language feature in real programs. A brief example. A cross-reference to related keywords. Regardless of how much experience you have with Delphi, this is the book you'll pick up again and again as your standard reference. you'll also use it to master the finer points of the language and to troubleshoot problems. "Delphi in a Nutshell" is the one indispensable reference for Delphi programmers.

Once upon a time, building your own software empire meant becoming another Microsoft or Bill Gates. And that took plenty of time, plenty of money, and plenty of resources. Nowadays, it's as simple as turning on your computer. Well, maybe not THAT simple. But having a computer is really all it takes to own, operate, and develop a software business. Just having access to the Internet... You can brainstorm and come up with ideas. You can find out what type of products do or don't already exist. You can determine exactly what people want and need. You

can locate and hire a programmer. You can create software graphics (or have them created). You can promote and sell your finished products. And when you think about the fact that you can do all those things without leaving the comfort of your home, it's pretty amazing. Plus, the cost of creating and developing software is no where near what it used to be. Instead of having to travel long distances or settle for whatever programmer is located within a reasonable distance from you (and whatever price they happen to charge), you can easily choose from any number of qualified programmers throughout the world. For each project you put out there, you'll have numerous professionals vying for your business, each one trying to outbid the other. And in most instances, that means coming up with a bid that is lower than the next guy. Not that you should pick the lowest bid. That should never be your main consideration when choosing a programmer. But the fact that programmers will be competing in that manner means you can ultimately get the best possible job done for the best possible price. Another advantage is the income potential. Although there are several ways you can make money online, none of them comes close when you calculate the amount of money that can be generated through the sale of software products. And the true benefit of dealing in software products is the fact that you don't have to talk someone into buying it. The product either fulfills the needs or wants of a prospective buyer or it doesn't. With an ebook, for example, you generally have to come up with all sorts of ingenious sales copy just to convince people why they should buy it. With software, it's as simple as listing all the features and benefits. And, when it comes right down to it, people who purchase software products aren't really interested in hearing some sales pitch. They simply want the facts and nothing but the facts...

Database Systems: A Pragmatic Approach is a classroom textbook for use by students who are learning about relational databases, and the professors who teach them. It discusses the database as an essential component of a software system, as well as a valuable, mission critical corporate resource. The book is based on lecture notes that have been tested and proven over several years, with outstanding results. It also exemplifies mastery of the technique of combining and balancing theory with practice, to give students their best chance at success. Upholding his aim for brevity, comprehensive coverage, and relevance, author Elvis C. Foster's practical and methodical discussion style gets straight to the salient issues, and avoids unnecessary fluff as well as an overkill of theoretical calculations. The book discusses concepts, principles, design, implementation, and management issues of databases. Each chapter is organized systematically into brief, reader-friendly sections, with itemization of the important points to be remembered. It adopts a methodical and pragmatic approach to solving database systems problems. Diagrams and illustrations also sum up the salient points to enhance learning. Additionally, the book includes a number of Foster's original methodologies that add clarity and creativity to the database modeling and design experience while making a novel contribution to

the discipline. Everything combines to make Database Systems: A Pragmatic Approach an excellent textbook for students, and an excellent resource on theory for the practitioner.

The complete guide to creating large mission-critical applications with Delphi. The authors, all experienced developers, cover the object-oriented concepts underlying Delphi, present examples including a comprehensive case study, and show how Delphi can be used with other technologies, such as OLE 1.0/2.0, DDE, Windows DLLS, and database-related tools.

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