

Clr Via C Developer Reference Jeffrey Richter

A Programmer's Guide to C# 5.0 is a book for software developers who want to truly understand C#. Whether you've worked with C# before or with another general-purpose programming language, each fast-paced, focused chapter will take you straight to the heart of a feature of C# and show you why it works the way it does. Written by one-time C# Test Lead, Program Manager, and member of the original C# language design team, this book is an ideal companion to the C# Language Specification, and works both as a tutorial and as a reference guide. Now in its fourth edition, you will find up-to-date coverage of all the latest C# features, including Linq, covariance and contravariance, and async support. You'll learn how to: Use C# features effectively, in the way they were intended Apply the newest C# features to your coding problems Streamline your database code using LINQ Use async support and the task parallel library to improve performance. Program more efficiently, effectively, and with real insight into this mature and exciting language, with A Programmer's Guide to C# 5.0.

Get the most out of the rich development capabilities of SQL Server 2016 to build efficient database applications for your organization About This Book Utilize the new enhancements in Transact-SQL and security features in SQL Server 2016 to

build efficient database applications Work with temporal tables to get information about data stored in the table at any point in time A detailed guide to SQL Server 2016, introducing you to multiple new features and enhancements to improve your overall development experience Who This Book Is For This book is for database developers and solution architects who plan to use the new SQL Server 2016 features for developing efficient database applications. It is also ideal for experienced SQL Server developers who want to switch to SQL Server 2016 for its rich development capabilities. Some understanding of the basic database concepts and Transact-SQL language is assumed. What You Will Learn Explore the new development features introduced in SQL Server 2016 Identify opportunities for In-Memory OLTP technology, significantly enhanced in SQL Server 2016 Use columnstore indexes to get significant storage and performance improvements Extend database design solutions using temporal tables Exchange JSON data between applications and SQL Server in a more efficient way Migrate historical data transparently and securely to Microsoft Azure by using Stretch Database Use the new security features to encrypt or to have more granular control over access to rows in a table Simplify performance troubleshooting with Query Store Discover the potential of R's integration with SQL Server In Detail Microsoft SQL Server 2016 is considered the biggest leap

in the data platform history of the Microsoft, in the ongoing era of Big Data and data science. Compared to its predecessors, SQL Server 2016 offers developers a unique opportunity to leverage the advanced features and build applications that are robust, scalable, and easy to administer. This book introduces you to new features of SQL Server 2016 which will open a completely new set of possibilities for you as a developer. It prepares you for the more advanced topics by starting with a quick introduction to SQL Server 2016's new features and a recapitulation of the possibilities you may have already explored with previous versions of SQL Server. The next part introduces you to small delights in the Transact-SQL language and then switches to a completely new technology inside SQL Server - JSON support. We also take a look at the Stretch database, security enhancements, and temporal tables. The last chapters concentrate on implementing advanced topics, including Query Store, columnstore indexes, and In-Memory OLTP. You will finally be introduced to R and how to use the R language with Transact-SQL for data exploration and analysis. By the end of this book, you will have the required information to design efficient, high-performance database applications without any hassle. Style and approach This book is a detailed guide to mastering the development features offered by SQL Server 2016, with a unique learn-as-you-do approach. All the concepts are explained in

a very easy-to-understand manner and are supplemented with examples to ensure that you—the developer—are able to take that next step in building more powerful, robust applications for your organization with ease.

Provides information on ways to find security bugs in software before it is released.

Presents an updated guide to the workings and latest feature of the common language runtime, Microsoft .NET, and C#.

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Identifies differences between active server pages (ASP) and the new ASP.NET, and explains how to develop internet applications with Visual Studio .NET technology. The authors describe changes in the control model, the event model, and the separation of code from presentation, and introduce the capabilities offered by web services, web forms, HttpHandlers, HttpModules, and the XML data format. The final chapter overviews the common types of database operations performed with ADO.NET. Annotation copyrighted by Book News, Inc., Portland, OR.

Developers who design and program USB devices have a new resource in the fifth edition of USB Complete: The Developer's Guide. This edition adds an

introduction to USB 3.1 and SuperSpeedPlus bus, which offers a 2x increase in bus speed over USB 3.0's SuperSpeed. For designs that don't require USB 3.1's capabilities, the book also covers USB 2.0 technology and applications. USB Complete Fifth Edition bridges the gap between the technical specifications and the real world of design and programming. Author Jan Axelson distills the fundamentals of the protocols and guides developers in choosing device hardware, deciding whether to target a USB class driver or another host driver, and writing device firmware and host applications. Example code in Visual C# shows how to detect and access USB devices and how to program and communicate with vendor-defined devices that use the human-interface-device (HID) class driver and Microsoft's WinUSB driver. Also covered are how to use bus power, including new advanced power delivery capabilities, wireless communications for USB devices, and developing embedded hosts, including dual-role USB On-The-Go devices. Programmers and hardware designers can rely on USB Complete's Fifth Edition to help get projects up and running quickly. Students and hobbyists will learn how to use the interface built into every PC. Instructors will find inspiration and guidance for class projects. Provides information on the tuning and optimization features of SQL server 2005, covering such topics as query execution, plan caching, and concurrency

problems.

Your process may be agile, but are you building agility directly into the code base? This book teaches .NET programmers how to give code the flexibility to adapt to changing requirements and customer demands by applying cutting-edge techniques, including SOLID principles, design patterns, and other industry best practices. Understand why composition is preferable to inheritance and how flexible the interface really can be Gain deep knowledge of key design patterns and anti-patterns, when to apply them, and how to give their code agility Bridge the gap between the theory behind SOLID principles, design patterns, and industry best practices by pragmatically solving real-world problems Get code samples written in upcoming version of Microsoft Visual C# Topics include: Agile with Scrum process; dependencies and layering; the interface; patterns and anti-patterns; introduction to SOLID principles, including open/closed and dependency interjection; and using application templates

Describes how to put software security into practice, covering such topics as risk analysis, coding policies, Agile Methods, cryptographic standards, and threat tree patterns.

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Pro T-SQL Programmer's Guide is your guide to making the best use of the powerful, Transact-SQL programming language that is built into Microsoft SQL Server's database engine. This edition is updated to cover the new, in-memory features that are part of SQL Server 2014. Discussing new and existing features, the book takes you on an expert guided tour of Transact-SQL functionality. Fully functioning examples and downloadable source code bring technically accurate and engaging treatment of Transact-SQL into your own hands. Step-by-step explanations ensure clarity, and an advocacy of best-practices will steer you

down the road to success. Transact-SQL is the language developers and DBAs use to interact with SQL Server. It's used for everything from querying data, to writing stored procedures, to managing the database. Support for in-memory stored procedures running queries against in-memory tables is new in the language and gets coverage in this edition. Also covered are must-know features such as window functions and data paging that help in writing fast-performing database queries. Developers and DBAs alike can benefit from the expressive power of T-SQL, and Pro T-SQL Programmer's Guide is your roadmap to success in applying this increasingly important database language to everyday business and technical tasks. Covers the newly-introduced, in-memory database features Shares the best practices used by experienced professionals Goes deeply into the subject matter ? an advanced book for the serious reader

C++ 2013 for C# Developers provides a fast-track to C++ proficiency for those already using the C# language at an advanced level. Beginning with a detailed explanation of the mechanics of C++'s execution sequence, its grammar, syntax and data access you'll quickly learn the similarities and differences between C++ and C#. The second and third parts of the book are devoted to a detailed deep-dive into C++ development to provide clear information and advice about how to use the language effectively.

Wonderpedia offers the books reviews, while NeoPopRealism Journal publishes news, views and other information additionally to the books reviews. These publications were founded by Nadia RUSS in 2007 and 2008, in New York City.

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Get hands-on answers to frequently asked questions about using Microsoft .NET technologies to customize and extend SAP applications. Walk through dozens of real-world examples—from Web Services integration to business intelligence (BI) reporting and Microsoft Office-based solutions—direct from a team of Microsoft–SAP interoperability experts. Learn how to expose back-end SAP data through familiar Microsoft tools and UIs—for better productivity and lower TCO. Discover how to: Navigate the development environment and tools—including Microsoft Visual Studio®, Visual Studio Tools for Office, and BizTalk® Server Connect .NET and SAP via Web Services, tools like SAP Connector and Enterprise Service Explorer, and .NET Data Provider Implement BI solutions that unlock SAP data through familiar Microsoft UIs Expose data from SAP NetWeaver Portal in Microsoft Office SharePoint® Server Use the Business Data Catalog to display and search SAP content—no coding Build your own Office Business Applications (OBAs), or put Duet to work Add Microsoft Office presence functionality and forms solutions to SAP applications Deliver a single sign-on solution

Hundhausen offers a pragmatic, hands-on overview of the new Microsoft Visual Studio team development environment, which features new tools and end-to-end integration for the roles of architect, developer, tester, and project manager.

Summary C# in Depth, Fourth Edition is your key to unlocking the powerful new features added to the language in C# 5, 6, and 7. Following the expert guidance of C# legend Jon Skeet, you'll master asynchronous functions, expression-bodied members, interpolated strings, tuples, and much more. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The powerful, flexible C# programming language is the foundation of .NET development. Even after two decades of

release of C# 2005, you'll find a complex array of new language options and parameters to create even more powerful applications if you know how to utilize them. This book will show you how. Combining a comprehensive tutorial and reference, this book breaks down the latest features while exploring the language from the ground up. The first section provides you with a detailed understanding of basic programming concepts and helps you gain the skills to write your own applications. The second section presents detailed information on specific features of the language so you can immediately take advantage of all the tools available. What you will learn from this book

A complete understanding of C# and its language structure
The best methods for mastering the new features of C# 2005
Techniques for building cutting-edge applications for the .NET Framework
How to use powerful options such as enumerations and delegates
Ways to increase safety and performance using generic methods and types
Steps for incorporating expressions and statements
The proper way to use namespaces, classes, structures, and arrays

Who this book is for
This book is an excellent resource for experienced C# developers as well as those who are new to the language. It shows you how to easily develop applications using C# but can also be used as a professional reference. Wrox Programmer's References are designed to give the experienced developer straight facts on a new technology, without hype or unnecessary explanations. They deliver hard information with plenty of practical examples to help you apply new tools to your development projects today.

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The Microsoft .NET Framework provides powerful technologies such as ASP.NET Web Forms, XML Web services, and Windows Forms to simplify developing applications and components that work seamlessly on the Internet. This book shows how to make the most of the .NET

Framework's common language runtime (CLR). Written by two highly respected developer/writers and intended for anyone who understands OOP concepts such as data abstraction, inheritance, and polymorphism, this book clearly explains the extensible type system of the CLR, examines how the CLR manages the behavior of types, and explores how an application manipulates types. While focusing on Visual Basic .NET, its in-depth explanations and concepts apply equally to all programming languages that target the .NET Framework. Topics covered include: The .NET Framework architecture Building, packaging, deploying, and administering applications and their types Building and deploying shared assemblies Type fundamentals Primitive, reference, and value types Operations common to all objects Type members and accessibility Constants, fields, methods, properties, and events Working with text Enumerated types and bit flags Array types Interfaces Custom attributes Delegates Error handling with exceptions Automatic memory management AppDomains and reflection

Pro T-SQL 2012 Programmer's Guide is every developer's key to making full use of SQL Server 2012's powerful, built-in Transact-SQL language. Discussing new and existing features, the book takes you on an expert guided tour of Transact-SQL functionality. Fully functioning examples and downloadable source code bring technically accurate and engaging treatment of Transact-SQL into your own hands. Step-by-step explanations ensure clarity, and an advocacy of best-practices will steer you down the road to success. Transact-SQL is the language developers and DBAs use to interact with SQL Server. It's used for everything from querying data, to writing stored procedures, to managing the database. New features in T-SQL 2012 include full support for window functions, stored sequences, the ability to throw

errors, data paging, and more. All these important new features are covered in this book. Developers and DBAs alike can benefit from the expressive power of Transact-SQL, and Pro T-SQL 2012 Programmer's Guide provides the gateway to success in applying this increasingly important database language to everyday business and technical tasks.

Microsoft's C# ("C sharp") is a modern, object-oriented programming language built from the ground up to exploit the power of XML-based Web services on Microsoft's new .NET platform. With its Visual C++ development system heritage, C# will enable millions of C and C++ developers to use existing skills to rapidly build sophisticated XML-based .NET applications. Why Will Web Developers Switch to C#? ...Because it's the ideal solution for C and C++ programmers who need to combine rapid development with the power to access all the functionality of the Microsoft.NET platform. They want an environment that is completely in sync with emerging Web standards and one that provides easy integration with existing applications. C#.net Web Developer's Guide will enhance developer productivity and help them eliminate programming errors that can lead to increased development costs. This book teaches Web developers to quickly and easily build solutions for the Microsoft .NET platform. Web developers will learn to use C# components to build Web services and applications that are available across the Internet, from any application running on any platform. * Timely coverage of newly released product - programmers and developers are anxious to learn about the new technology * Comes with Syngress' revolutionary wallet-sized CD containing a printable HTML version of the book and all of the source code examples and demos of popular C# upgrade and programming tools

Defining a new development life-cycle methodology, together with a set of associated

techniques and tools to develop highly critical systems using formal techniques, this book adopts a rigorous safety assessment approach explored via several layers (from requirements analysis to automatic source code generation). This is assessed and evaluated via a standard case study: the cardiac pacemaker. Additionally a formalisation of an Electrocardiogram (ECG) is used to identify anomalies in order to improve existing medical protocols. This allows the key issue - that formal methods are not currently integrated into established critical systems development processes - to be discussed in a highly effective and informative way. Using Event-B for Critical Device Software Systems serves as a valuable resource for researchers and students of formal methods. The assessment of critical systems development is applicable to all industries, but engineers and physicians from the health domain will find the cardiac pacemaker case study of particular value.

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Author has unique knowledge of Visual C++ 2005 development at Microsoft, including many undocumented features, hints and tips which he records for the first time in this book Presents a fast-track entry for developers familiar with C#, into the VC++ world Complete coverage of Visual C++ 2005 to ensure that readers will have broad understanding necessary to leverage the unique, powerful features

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Build your expertise as you move beyond the basics--and delve into the core topics of programming with ASP.NET 2.0. Useful to both experienced developers and those

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