

CLR Via C

CLR Via C#

Dig deep and master the intricacies of the common language runtime (CLR) and the .NET Framework. Written by a highly regarded programming expert and consultant to the Microsoft .NET team, this guide is ideal for developers building any kind of application--including Microsoft ASP.NET, Windows Forms, Microsoft SQL Server, Web services, and console applications. You'll get hands-on instruction and extensive code C# code samples to help you tackle the tough topics and develop high-performance applications. Discover how to: Build, deploy, administer, and version applications, components, and shared assemblies Design types using constants, fields, constructors, methods, properties, and events Work effectively with the CLR's special types including enumerators, arrays, and strings Declare, create, and use delegates to expose callback functions Define and employ re-usable algorithms with interfaces and generics Define, use, and detect custom attributes Use exception handling to build robust, reliable, and security-enhanced components Manage memory automatically with the garbage collector and work with native resources Apply CLR Hosting, AppDomains, assembly loading, and reflection to build dynamically extensible applications PLUS--Get code samples on the Web

CLR Via C#

Dig deep and master the intricacies of the common language runtime, C#, and .NET development. Led by programming expert Jeffrey Richter, a longtime consultant to the Microsoft .NET team - you'll gain pragmatic insights for building robust, reliable, and responsive apps and components. Fully updated for .NET Framework 4.5 and Visual Studio 2012 Delivers a thorough grounding in the .NET Framework architecture, runtime environment, and other key topics, including asynchronous programming and the new Windows Runtime Provides extensive code samples in Visual C# 2012 Features authoritative, pragmatic guidance on difficult development concepts such as generics and threading

Windows Runtime via C#

Delve inside the Windows Runtime - and learn best ways to design and build Windows Store apps. Guided by Jeffrey Richter, a recognized expert in Windows and .NET programming, along with principal Windows consultant Maarten van de Bospoort, you'll master essential concepts. And you'll gain practical insights and tips for how to architect, design, optimize, and debug your apps. With this book, you will: Learn how to consume Windows Runtime APIs from C# Understand the principles of architecting Windows Store apps See how to build, deploy, and secure app packages Understand how apps are activated and the process model controlling their execution Study the rich features available when working with files and folders Explore how to transfer, compress, and encrypt data via streams Design apps that give the illusion of running using live tiles, background transfers, and background tasks Share data between apps using the clipboard and the Share charm Get advice for monetizing your apps through the Windows Store About This Book Requires working knowledge of Microsoft .NET Framework, C#, and the Visual Studio IDE Targeted to programmers building Windows Store apps Some chapters also useful to those building desktop apps Technologies Covered Windows 8.1 Microsoft Visual Studio 2013

C# 7.0 in a Nutshell

When you have questions about C# 7.0 or the .NET CLR and its core Framework assemblies, this bestselling guide has the answers you need. Since its debut in 2000, C# has become a language of unusual flexibility and

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

Windows Via C/C++

Offers a reference to key C? programming concepts covering language elements, syntax, datatypes, and tasks.

Essential .Net

The free book \"Fundamentals of Computer Programming with C#\" is a comprehensive computer programming tutorial that teaches programming, logical thinking, data structures and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and software development like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, abstraction, encapsulation and polymorphism) and their implementation the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers lead by Svetlin Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The books does not teach technologies like databases, mobile and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples. Download the free C# programming book, videos, presentations and other resources from <http://introprogramming.info>. Title: Fundamentals of Computer Programming with C# (The Bulgarian C# Programming Book) ISBN: 9789544007737 ISBN-13: 978-954-400-773-7 (9789544007737) ISBN-10: 954-400-773-3 (9544007733) Author: Svetlin Nakov & Co. Pages: 1132 Language: English Published: Sofia, 2013 Publisher: Faber Publishing, Bulgaria Web site: <http://www.introprogramming.info> License: CC-Attribution-Share-Alike Tags: free, programming, book, computer programming, programming fundamentals, ebook, book programming, C#, CSharp, C# book, tutorial, C# tutorial; programming concepts, programming fundamentals, compiler, Visual Studio, .NET, .NET Framework, data types, variables, expressions, statements, console, conditional statements, control-flow logic, loops, arrays, numeral systems, methods, strings, text processing, StringBuilder, exceptions, exception handling, stack trace, streams, files, text files, linear data structures, list, linked list, stack, queue, tree, balanced tree, graph, depth-first search, DFS, breadth-first search, BFS, dictionaries, hash tables, associative arrays, sets, algorithms, sorting algorithm, searching algorithms, recursion, combinatorial algorithms, algorithm complexity, OOP, object-oriented programming, classes, objects, constructors, fields, properties, static members, abstraction, interfaces, encapsulation, inheritance, virtual methods, polymorphism, cohesion, coupling, enumerations, generics, namespaces, UML, design patterns, extension methods, anonymous types, lambda expressions, LINQ, code quality, high-quality code, high-quality classes,

high-quality methods, code formatting, self-documenting code, code refactoring, problem solving, problem solving methodology, 9789544007737, 9544007733

C# 3.0 in a Nutshell

Exploring the .NET universe using curly brackets. The book provides a complete A-to-Z reference for using C# with the .NET 2.0 platform and the .NET 3.0 extensions. The book contains new chapters that explore the interactions between the existing framework and the new extensions, giving you an edge when you evaluate and implement .NET 3.0 for the first time. To provide even more support, a bonus PDF download will be available with each purchase, offering over 500 pages of carefully selected additional content to help broaden your understanding of both .NET 2.0 and .NET 3.0.

Fundamentals of Computer Programming with C#

Maximizing the performance of your algorithms and applications is extremely important and can give you a competitive advantage, a lower cost of ownership, and happier users. Pro .NET Performance explains the internals of Windows, the CLR, and the physical hardware that affect the performance of your applications, and gives you the knowledge and tools to measure how your code performs in isolation from external factors. The book is full of C# code samples and tips to help you squeeze every bit of juice from your application—lower memory utilization, consistent CPU usage, and fewer I/O operations across the network and disk. Pro .NET Performance will change the way you think about .NET application development. Guides you through performance measurement with a variety of profilers and other tools Explains how OS and CLR internals affect your application's performance in unexpected ways Provides you with tips and real-life case studies for improving application performance

Pro C# With .Net 3.0

This essential classic title provides a comprehensive foundation in the C# programming language and the frameworks it lives in. Now in its 8th edition, you'll find all the very latest C# 7.1 and .NET 4.7 features here, along with four brand new chapters on Microsoft's lightweight, cross-platform framework, .NET Core, up to and including .NET Core 2.0. Coverage of ASP.NET Core, Entity Framework (EF) Core, and more, sits alongside the latest updates to .NET, including Windows Presentation Foundation (WPF), Windows Communication Foundation (WCF), and ASP.NET MVC. Dive in and discover why Pro C# has been a favorite of C# developers worldwide for over 15 years. Gain a solid foundation in object-oriented development techniques, attributes and reflection, generics and collections as well as numerous advanced topics not found in other texts (such as CIL opcodes and emitting dynamic assemblies). With the help of this book you'll have the confidence to put C# into practice and explore the .NET universe on your own terms. What You Will Learn Discover the latest C# 7.1 features, from tuples to pattern matching Hit the ground running with Microsoft's lightweight, open source .NET Core platform, including ASP.NET Core MVC, ASP.NET Core web services, and Entity Framework Core Find complete coverage of XAML, .NET 4.7, and Visual Studio 2017 Understand the philosophy behind .NET and the new, cross-platform alternative, .NET Core

Pro .NET Performance

Modern C++ at your fingertips! About This Book This book gets you started with the exciting world of C++ programming It will enable you to write C++ code that uses the standard library, has a level of object orientation, and uses memory in a safe and effective way It forms the basis of programming and covers concepts such as data structures and the core programming language Who This Book Is For A computer, an internet connection, and the desire to learn how to code in C++ is all you need to get started with this book. What You Will Learn Get familiar with the structure of C++ projects Identify the main structures in the language: functions and classes Feel confident about being able to identify the execution flow through the

code Be aware of the facilities of the standard library Gain insights into the basic concepts of object orientation Know how to debug your programs Get acquainted with the standard C++ library In Detail C++ has come a long way and is now adopted in several contexts. Its key strengths are its software infrastructure and resource-constrained applications, including desktop applications, servers, and performance-critical applications, not to forget its importance in game programming. Despite its strengths in these areas, beginners usually tend to shy away from learning the language because of its steep learning curve. The main mission of this book is to make you familiar and comfortable with C++. You will finish the book not only being able to write your own code, but more importantly, you will be able to read other projects. It is only by being able to read others' code that you will progress from a beginner to an advanced programmer. This book is the first step in that progression. The first task is to familiarize you with the structure of C++ projects so you will know how to start reading a project. Next, you will be able to identify the main structures in the language, functions, and classes, and feel confident being able to identify the execution flow through the code. You will then become aware of the facilities of the standard library and be able to determine whether you need to write a routine yourself, or use an existing routine in the standard library. Throughout the book, there is a big emphasis on memory and pointers. You will understand memory usage, allocation, and access, and be able to write code that does not leak memory. Finally, you will learn about C++ classes and get an introduction to object orientation and polymorphism. Style and approach This straightforward tutorial will help you build strong skills in C++ programming, be it for enterprise software or for low-latency applications such as games or embedded programming. Filled with examples, this book will take you gradually up the steep learning curve of C++.

Pro C# 7

Covers topics such as integrating multiple .NET technologies, cross-language integration, versioning, database and monitoring tools for application development, accessing data, and COM+.

Beginning C++ Programming

Deep learning is often viewed as the exclusive domain of math PhDs and big tech companies. But as this hands-on guide demonstrates, programmers comfortable with Python can achieve impressive results in deep learning with little math background, small amounts of data, and minimal code. How? With fastai, the first library to provide a consistent interface to the most frequently used deep learning applications. Authors Jeremy Howard and Sylvain Gugger, the creators of fastai, show you how to train a model on a wide range of tasks using fastai and PyTorch. You'll also dive progressively further into deep learning theory to gain a complete understanding of the algorithms behind the scenes. Train models in computer vision, natural language processing, tabular data, and collaborative filtering Learn the latest deep learning techniques that matter most in practice Improve accuracy, speed, and reliability by understanding how deep learning models work Discover how to turn your models into web applications Implement deep learning algorithms from scratch Consider the ethical implications of your work Gain insight from the foreword by PyTorch cofounder, Soumith Chintala

The Book of Visual Studio .NET

"I think I can, I think I can, I think I can..." Discover the inspiring story of the Little Blue Engine as she makes her way over the mountain in this beloved classic—the perfect gift to celebrate the special milestones in your life, from graduations to birthdays and more! The kindness and determination of the Little Blue Engine have inspired millions of children around the world since the story was first published in 1930. Cherished by readers for over ninety years, The Little Engine That Could is a classic tale of the little engine that, despite her size, triumphantly pulls a train full of wonderful things to the children waiting on the other side of a mountain.

Deep Learning for Coders with fastai and PyTorch

After a dozen years of incremental changes, C# has become one of the most versatile programming languages available. With this comprehensive guide, you'll learn just how powerful the combination of C# 5.0 and .NET 4.5 can be. Author Ian Griffiths guides you through C# 5.0 fundamentals and teaches you techniques for building web and desktop applications, including Windows 8-style apps. Completely rewritten for experienced programmers, this book provides many code examples to help you work with the nuts and bolts of C# code, such as generics, dynamic typing, and the new asynchronous programming features. You'll also get up to speed on XAML, ASP.NET, LINQ, and other .NET tools. Discover how C# supports fundamental coding features such as classes, other custom types, collections, and error handling Understand the differences between dynamic and static typing in C# Query and process diverse data sources such as in-memory object models, databases, and XML documents with LINQ Use .NET's multithreading features to exploit your computer's parallel processing capabilities Learn how the new asynchronous language features can help improve application responsiveness and scalability Use XAML to create Windows 8-style, phone, and classic desktop applications

The Little Engine That Could

Publisher's Note: Microsoft will stop supporting .NET 6 from November 2024. The newer 8th edition of the book is available that covers .NET 8 (end-of-life November 2026) with C# 12 and EF Core 8. Purchase of the print or Kindle book includes a free PDF eBook

Key Features Explore the newest additions to C# 10, the .NET 6 class library, and Entity Framework Core 6 Create professional websites and services with ASP.NET Core 6 and Blazor Build cross-platform apps for Windows, macOS, Linux, iOS, and Android

Book Description Extensively revised to accommodate all the latest features that come with C# 10 and .NET 6, this latest edition of our comprehensive guide will get you coding in C# with confidence. You'll learn object-oriented programming, writing, testing, and debugging functions, implementing interfaces, and inheriting classes. The book covers the .NET APIs for performing tasks like managing and querying data, monitoring and improving performance, and working with the filesystem, async streams, and serialization. You'll build and deploy cross-platform apps, such as websites and services using ASP.NET Core. Instead of distracting you with unnecessary application code, the first twelve chapters will teach you about C# language constructs and many of the .NET libraries through simple console applications. In later chapters, having mastered the basics, you'll then build practical applications and services using ASP.NET Core, the Model-View-Controller (MVC) pattern, and Blazor. What you will learn Build rich web experiences using Blazor, Razor Pages, the Model-View-Controller (MVC) pattern, and other features of ASP.NET Core Build your own types with object-oriented programming Write, test, and debug functions Query and manipulate data using LINQ Integrate and update databases in your apps using Entity Framework Core, Microsoft SQL Server, and SQLite Build and consume powerful services using the latest technologies, including gRPC and GraphQL Build cross-platform apps using XAML Who this book is for Designed for both beginners and C# and .NET programmers who have worked with C# in the past and want to catch up with the changes made in the past few years, this book doesn't need you to have any C# or .NET experience. However, you should have a general understanding of programming before you jump in.

Object Oriented Programming using C#

When you have questions about C# 9.0 or .NET 5, this best-selling guide has the answers you need. C# is a language of unusual flexibility and breadth, but with its continual growth there's so much more to learn. In the tradition of O'Reilly's Nutshell guides, this thoroughly updated edition is simply the best one-volume reference to the C# language available today. Organized around concepts and use cases, C# 9.0 in a Nutshell provides intermediate and advanced programmers with a concise map of C# and .NET that also plumbs significant depths. Get up to speed on C#, from syntax and variables to advanced topics such as pointers, records, closures, and patterns Dig deep into LINQ with three chapters dedicated to the topic Explore concurrency and asynchrony, advanced threading, and parallel programming Work with .NET features, including regular expressions, networking, spans, reflection, and cryptography

Programming C# 5.0

Even bad code can function. But if code isn't clean, it can bring a development organization to its knees. Every year, countless hours and significant resources are lost because of poorly written code. But it doesn't have to be that way. Noted software expert Robert C. Martin presents a revolutionary paradigm with *Clean Code: A Handbook of Agile Software Craftsmanship*. Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of cleaning code "on the fly" into a book that will instill within you the values of a software craftsman and make you a better programmer—but only if you work at it. What kind of work will you be doing? You'll be reading code—lots of code. And you will be challenged to think about what's right about that code, and what's wrong with it. More importantly, you will be challenged to reassess your professional values and your commitment to your craft. *Clean Code* is divided into three parts. The first describes the principles, patterns, and practices of writing clean code. The second part consists of several case studies of increasing complexity. Each case study is an exercise in cleaning up code—of transforming a code base that has some problems into one that is sound and efficient. The third part is the payoff: a single chapter containing a list of heuristics and "smells" gathered while creating the case studies. The result is a knowledge base that describes the way we think when we write, read, and clean code. Readers will come away from this book understanding

- How to tell the difference between good and bad code
- How to write good code and how to transform bad code into good code
- How to create good names, good functions, good objects, and good classes
- How to format code for maximum readability
- How to implement complete error handling without obscuring code logic
- How to unit test and practice test-driven development

This book is a must for any developer, software engineer, project manager, team lead, or systems analyst with an interest in producing better code.

C# 10 and .NET 6 – Modern Cross-Platform Development

The Comprehensive, Expert Guide to C# Language Programming \

"This book has been a classic for years, and remains one of the most venerable and trusted titles in the world of C# content, and probably far beyond!" --Mads Torgersen, C# Program Manager, Microsoft

Essential C# 7.0 is a well-organized, no-fluff guide to C# 7.0 for programmers at all levels of experience. Reflecting the most important C# features from 3.0 through 7.0 and including modern programming patterns, it will help you write code that's simple, powerful, robust, secure, and maintainable. Author Mark Michaelis is a world-class C# expert: a long-time Microsoft MVP and Regional Director who also has served on Microsoft's C# design review team. He presents a comprehensive tutorial and reference for the entire language, including expert coverage of key C# 7.0 enhancements, C# 7.0's use with .NET Core/.NET Standard, and cross-platform compilation. He illustrates key C# constructs with succinct examples, and presents best-practice coding guidelines. To help you maintain existing code, separate indexes provide version-specific answers for C# 5.0, 6.0, and 7.0, and visual icons show when each language innovation was introduced. Make the most of C# 7.0 enhancements, including tuples, deconstructors, pattern matching, local functions, and ref returns

- Work efficiently with C# data types, operators, control flow, methods, and parameters
- Write more robust code with C# object-oriented constructs
- Implement reliable, effective exception handling
- Reduce code complexity with generics, delegates, lambda expressions, and events
- Leverage advanced dynamic and declarative programming techniques
- Query diverse data collections using LINQ with query expressions
- Create custom collections that operate against business objects
- Access .NET collections via collection interfaces and standard query operators
- Master multithreading and synchronization, including the async/await paradigm
- Optimize performance and interoperability with P/Invoke and unsafe code
- Run your code on Linux or macOS with C# 7.0 cross-platform compilation

Includes C# 7.1, 7.2, and 7.3 language enhancements

This guide offers you a complete foundation for successful development with modern versions of the C# language in any project or environment. Register your product at informit.com/register for convenient access to downloads, updates, and/or corrections as they become available.

C# 9.0 in a Nutshell

This new 7th edition of Pro C# 6.0 and the .NET 4.6 Platform has been completely revised and rewritten to reflect the latest changes to the C# language specification and new advances in the .NET Framework. You'll find new chapters covering all the important new features that make .NET 4.6 the most comprehensive release yet, including: A Refined ADO.NET Entity Framework Programming Model Numerous IDE and MVVM Enhancements for WPF Desktop Development Numerous updates to the ASP.NET Web APIs This comes on top of award winning coverage of core C# features, both old and new, that have made the previous editions of this book so popular. Readers will gain a solid foundation of object-oriented development techniques, attributes and reflection, generics and collections as well as numerous advanced topics not found in other texts (such as CIL opcodes and emitting dynamic assemblies). The mission of this book is to provide you with a comprehensive foundation in the C# programming language and the core aspects of the .NET platform plus overviews of technologies built on top of C# and .NET (ADO.NET and Entity Framework, Windows Communication Foundation (WCF), Windows Presentation Foundation (WPF), ASP.NET (WebForms, MVC, WebAPI).). Once you digest the information presented in these chapters, you'll be in a perfect position to apply this knowledge to your specific programming assignments, and you'll be well equipped to explore the .NET universe on your own terms. What You Will Learn: Be the first to understand the .NET 4.6 platform and C# 6. Discover the ins and outs of the leading .NET technology. Learn from an award-winning author who has been teaching the .NET world since version 1.0. Find complete coverage of XAML, .NET 4.6 and Visual Studio 2015 together with discussion of the new Windows Runtime.

Clean Code

“When you begin using multi-threading throughout an application, the importance of clean architecture and design is critical. . . . This places an emphasis on understanding not only the platform’s capabilities but also emerging best practices. Joe does a great job interspersing best practices alongside theory throughout his book.” – From the Foreword by Craig Mundie, Chief Research and Strategy Officer, Microsoft Corporation Author Joe Duffy has risen to the challenge of explaining how to write software that takes full advantage of concurrency and hardware parallelism. In Concurrent Programming on Windows, he explains how to design, implement, and maintain large-scale concurrent programs, primarily using C# and C++ for Windows. Duffy aims to give application, system, and library developers the tools and techniques needed to write efficient, safe code for multicore processors. This is important not only for the kinds of problems where concurrency is inherent and easily exploitable—such as server applications, compute-intensive image manipulation, financial analysis, simulations, and AI algorithms—but also for problems that can be speeded up using parallelism but require more effort—such as math libraries, sort routines, report generation, XML manipulation, and stream processing algorithms. Concurrent Programming on Windows has four major sections: The first introduces concurrency at a high level, followed by a section that focuses on the fundamental platform features, inner workings, and API details. Next, there is a section that describes common patterns, best practices, algorithms, and data structures that emerge while writing concurrent software. The final section covers many of the common system-wide architectural and process concerns of concurrent programming. This is the only book you’ll need in order to learn the best practices and common patterns for programming with concurrency on Windows and .NET.

Essential C# 7.0

The C# Player's Guide (3rd Edition) is the ultimate guide for people starting out with C#, whether you are new to programming, or an experienced vet. This guide takes you from your journey's beginning, through the most challenging parts of programming in C#, and does so in a way that is casual, informative, and fun. This version of the book is updated for C# 7.0 and Visual Studio 2017. Get off the ground quickly, with a gentle introduction to C#, Visual Studio, and a step-by-step walkthrough and explanation of how to make your first C# program. Learn the fundamentals of procedural programming, including variables, math operations, decision making, looping, methods, and an in-depth look at the C# type system. Dive into object-oriented programming, from start to finish, including inheritance, polymorphism, interfaces, and generics. Explore some of the most useful advanced features of C#, and take on some of the most common tasks that a

programmer will tackle. Learn to control the tools and tricks of programming in C#, including the .NET framework, dealing with compiler errors, and hunting down bugs in your program. Master the needed skills by taking on a large collection of Try It Out! challenges, to ensure that you've learned the things you need to. With this guide, you'll soon be off to save the world (or take over it) with your own awesome C# programs!

C# 6.0 and the .NET 4.6 Framework

Do you want your .NET code to have the absolute best performance it can? This book demystifies the CLR, teaching you how and why to write code with optimum performance. Learn critical lessons from a person who helped design and build one of the largest high-performance .NET systems in the world. This book does not just teach you how the CLR works--it teaches you exactly what you need to do now to obtain the best performance today. It will expertly guide you through the nuts and bolts of extreme performance optimization in .NET, complete with in-depth examinations of CLR functionality, free tool recommendations and tutorials, useful anecdotes, and step-by-step guides to measure and improve performance. Among the topics you will learn are how to:- Choose what to measure and why- Use many amazing tools, freely available, to solve problems quickly- Understand the .NET garbage collector and its effect on your application- Use effective coding patterns that lead to optimal garbage collection performance- Diagnose common GC-related issues- Reduce costs of JITting- Use multiple threads sanely and effectively, avoiding synchronization problems- Know which .NET features and APIs to use and which to avoid- Use code generation to avoid performance problems- Measure everything and expose hidden performance issues- Instrument your program with performance counters and ETW events- Use the latest and greatest .NET features- Ensure your code can run on mobile devices without problems- Build a performance-minded team...and much more.

Concurrent Programming on Windows

A guide to the key topics of C# covers such topics as lambda expressions, LINQ, generics, nullable types, iterators, and extension methods.

Working Effectively With Legacy Code

Dig deep and master the intricacies of the common language runtime, C#, and .NET development. Led by programming expert Jeffrey Richter, a longtime consultant to the Microsoft .NET team - you'll gain pragmatic insights for building robust, reliable, and responsive apps and components. Fully updated for .NET Framework 4.5 and Visual Studio 2012 Delivers a thorough grounding in the .NET Framework architecture, runtime environment, and other key topics, including asynchronous programming and the new Windows Runtime Provides extensive code samples in Visual C# 2012 Features authoritative, pragmatic guidance on difficult development concepts such as generics and threading

The C# Player's Guide

"Russinovich and Margosis begin by introducing Sysinternals' goals and capabilities, and offering practical guidance for getting started. Next, they offer in-depth coverage of each major Sysinternals tool and category of tools: Process Explorer, Autoruns, ProcMon, ProcDump, and PsTools--including valuable new coverage of using ProcMon and ProcDump together; Additional process and diagnostic utilities; Security utilities; Active Directory utilities; Desktop utilities; File utilities; Disk utilities; Network and communication utilities; System information utilities, and more. Then, building on this comprehensive reference information, they present an expanded and updated hands-on troubleshooting section, focused on your most challenging real-world problems--including error messages, hangs, sluggish performance, and the potential presence of malware."--Provided by publisher.

Writing High-Performance .NET Code

"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"--Publisher's description.

C# in Depth

The definitive guide fully updated for Windows 10 and Windows Server 2016 Delve inside Windows architecture and internals, and see how core components work behind the scenes. Led by a team of internals experts, this classic guide has been fully updated for Windows 10 and Windows Server 2016. Whether you are a developer or an IT professional, you'll get critical, insider perspectives on how Windows operates. And through hands-on experiments, you'll experience its internal behavior firsthand knowledge you can apply to improve application design, debugging, system performance, and support. This book will help you: Understand the Windows system architecture and its most important entities, such as processes and threads Examine how processes manage resources and threads scheduled for execution inside processes Observe how Windows manages virtual and physical memory Dig into the Windows I/O system and see how device drivers work and integrate with the rest of the system Go inside the Windows security model to see how it manages access, auditing, and authorization, and learn about the new mechanisms in Windows 10 and Server 2016.

Web Technologies: Html, Javascript, Php, Java, Jsp, Asp.Net, Xml And Ajax, Black Book (With Cd)

"Look it up in Petzold" remains the last word on Windows development. In this .NET-ready Windows programming guide, the best-selling author shows you how to get the most out of Windows Forms—the next-generation Windows programming class library. You'll discover how to use C# to create dynamic user interfaces and graphical outputs for Windows applications. With dozens of examples of client applications to illustrate common techniques and plenty of no-nonsense advice on best programming practices, you'll be C# sharp in no time. Topics covered in this guide include: A tour of C# Windows Forms Essential structures An exercise in text output Lines, curves, and area fills Tapping into the keyboard Pages and transforms Taming the mouse Text and fonts The timer and time Images and bitmaps Buttons, labels, and scrolls Béziars and other splines Menus Paths, regions, and clipping Dialog boxes Brushes and pens Edit, list, and spin controls Font fun Toolbars and status bars Printing Tree view and List view Metafiles Clip, drag, and drop INCLUDED ON CD-ROM: * Sample source code for all the examples presented in the book A Note Regarding the CD or DVD The print version of this book ships with a CD or DVD. For those customers purchasing one of the digital formats in which this book is available, we are pleased to offer the CD/DVD content as a free download via O'Reilly Media's Digital Distribution services. To download this content, please visit O'Reilly's web site, search for the title of this book to find its catalog page, and click on the link below the cover image (Examples, Companion Content, or Practice Files). Note that while we provide as much of the media content as we are able via free download, we are sometimes limited by licensing restrictions. Please direct any questions or concerns to booktech@oreilly.com.

CLR via C#

Master The Building Blocks Of 32-Bit And 64-Bit Windows-Based Applications Here S Definitive Instruction For Advancing The Next Generation Of Windows®-Based Applications Faster, Sleeker, And More Potent Than Ever! This Fully Updated Expansion Of The Bests

Troubleshooting with the Windows Sysinternals Tools

Master the intricacies of application development with unmanaged C++ code—straight from the experts. Jeffrey Richter's classic book is now fully revised for Windows XP, Windows Vista, and Windows Server 2008. You get in-depth, comprehensive guidance, advanced techniques, and extensive code samples to help you program Windows-based applications. Discover how to: Architect and implement your applications for both 32-bit and 64-bit Windows Create and manipulate processes and jobs Schedule, manage, synchronize and destroy threads Perform asynchronous and synchronous device I/O operations with the I/O completion port Allocate memory using various techniques including virtual memory, memory-mapped files, and heaps Manipulate the default committed physical storage of thread stacks Build DLLs for delay-loading, API hooking, and process injection Using structured exception handling, Windows Error Recovery, and Application Restart services

Adaptive Code Via C#

See how the core components of the Windows operating system work behind the scenes—guided by a team of internationally renowned internals experts. Fully updated for Windows Server(R) 2008 and Windows Vista(R), this classic guide delivers key architectural insights on system design, debugging, performance, and support—along with hands-on experiments to experience Windows internal behavior firsthand. Delve inside Windows architecture and internals: Understand how the core system and management mechanisms work—from the object manager to services to the registry Explore internal system data structures using tools like the kernel debugger Grasp the scheduler's priority and CPU placement algorithms Go inside the Windows security model to see how it authorizes access to data Understand how Windows manages physical and virtual memory Tour the Windows networking stack from top to bottom—including APIs, protocol drivers, and network adapter drivers Troubleshoot file-system access problems and system boot problems Learn how to analyze crashes

Windows® Internals, Book 1

Get up to speed with the latest features of C# 8, ASP.NET Core 3 and .NET Core 3.1 LTS to create robust and maintainable web services Key FeaturesApply design patterns and techniques to achieve a reactive, scalable web serviceDocument your web services using the OpenAPI standard and test them using PostmanExplore mechanisms to implement a secure web service using client-side SSL and token authenticationBook Description In recent times, web services have evolved to play a prominent role in web development. Applications are now designed to be compatible with any device and platform, and web services help us keep their logic and UI separate. Given its simplicity and effectiveness in creating web services, the RESTful approach has gained popularity, and this book will help you build RESTful web services using ASP.NET Core. This REST book begins by introducing you to the basics of the REST philosophy, where you'll study the different stages of designing and implementing enterprise-grade RESTful web services. You'll also gain a thorough understanding of ASP.NET Core's middleware approach and learn how to customize it. The book will later guide you through improving API resilience, securing your service, and applying different design patterns and techniques to achieve a scalable web service. In addition to this, you'll learn advanced techniques for caching, monitoring, and logging, along with implementing unit and integration testing strategies. In later chapters, you will deploy your REST web services on Azure and document APIs using Swagger and external tools such as Postman. By the end of this book, you will have learned how to design RESTful web services confidently using ASP.NET Core with a focus on code testability and maintainability. What you will learnGain a comprehensive working knowledge of ASP.NET CoreIntegrate third-party tools and frameworks to build maintainable and efficient servicesImplement

patterns using dependency injection to reduce boilerplate code and improve flexibility Use ASP.NET Core's out-of-the-box tools to test your applications Use Docker to run your ASP.NET Core web service in an isolated and self-contained environment Secure your information using HTTPS and token-based authentication Integrate multiple web services using resiliency patterns and messaging techniques Who this book is for This book is for anyone who wants to learn how to build RESTful web services with the ASP.NET Core framework to improve the scalability and performance of their applications. Basic knowledge of C# and .NET Core will help you make the best use of the code samples included in the book.

Programming Microsoft Windows with C#

LLINQ, Language INtegrated Query, is a new extension to the Visual Basic and C# programming languages designed to simplify data queries and database interaction. It addresses O/R mapping issues by making query operations like SQL statements part of the programming language. It also offers built-in support for querying in-memory collections like arrays or lists, XML, DataSets, and relational databases. LINQ in Action is a fast-paced, comprehensive tutorial for professional developers. This book explores what can be done with LINQ, shows how it works in an application, and addresses the emerging best practices. It presents the general purpose query facilities offered by LINQ in the upcoming C# 3.0 and VB.NET 9.0 languages. A running example introduces basic LINQ concepts. You'll then learn to query unstructured data using LINQ to XML and relational data with LINQ to SQL. Finally, you'll see how to extend LINQ for custom applications. LINQ in Action will guide you along as you explore this new world of lambda expressions, query operators, and expression trees. As well, you'll explore the new features of C# 3.0, VB.NET 9.0. The book is very practical, anchoring each new idea with running code. Whether you want to use LINQ to query objects, XML documents, or relational databases, you will find all the information you need to get started But LINQ in Action does not stop at the basic code. This book also shows you how LINQ can be used for advanced processing of data, including coverage of LINQ's extensibility, which allows querying more data sources than those supported by default. All code samples are built on a concrete business case. The running example, LinqBooks, is a personal book cataloging system that shows you how to create LINQ applications with Visual Studio 2008. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Programming Applications for Microsoft Windows

"Rebol Programming Insights" is a comprehensive exploration of the Rebol programming language, tracing its distinctive minimalistic philosophy, flexible code-as-data model, and pioneering support for domain-specific dialects. The book opens by dissecting the core language architecture, delving into Rebol's unique evaluation paradigms, intricate block and series management, and the extensible data type system that underpins robust yet elegant software composition. Readers are guided through the language's runtime environment, interpreter internals, and system integration, lending practical insight into how Rebol achieves expressive power with a remarkably concise design. As the narrative unfolds, the book advances into the nuanced realms of control flow, data transformation, and modern application architecture. Through meticulous chapters, topics such as advanced function patterns, error management strategies, series-based algorithms, and introspective meta-programming techniques are presented alongside practical recipes for web communication, file system interfacing, and secure external integrations. A dedicated section on graphical user interface development empowers readers to craft interactive, data-rich applications using Rebol/View's reactive patterns and custom visualization strategies. Designed for both Rebol enthusiasts and language explorers, the book culminates with discussions on modularity, performance engineering, and robust security practices—culminating in future directions and the expanding Rebol ecosystem. Comprehensive surveys of implementations, real-world DSL case studies, and guidance for engaging with the Rebol community underscore its collaborative spirit and ongoing evolution. With an expert blend of technical rigor and practical advice, "Rebol Programming Insights" is an indispensable guide for building resilient, scalable, and innovative solutions in Rebol.

Windows® via C/C++

Windows Internals

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