

# Framework Design Guidelines Conventions Idioms And Patterns For Reusable Net Libraries Krzysztof Cwalina

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This book constitutes the thoroughly refereed post-conference proceedings of the Second International Conference on Software Language Engineering, SLE 2009, held in Denver, CO, USA, in October 2009. The 15 revised full papers and 6 revised short paper presented together with 2 tool demonstration papers were carefully reviewed and selected from 75 initial submissions. The papers are organized in topical sections on language and model evolution, variability and product lines, parsing, compilation, and demo, modularity in languages, and metamodeling and demo.

“Charlie and Dinesh bring important skills to this project that enable them to show how LINQ works and the practical ways you can use it in your daily development process.” From the Foreword by Anders Hejlsberg LINQ is one of Microsoft’s most exciting, powerful new development technologies. Essential LINQ is the first LINQ book written by leading members of Microsoft’s LINQ and C# teams. Writing for architects, developers, and development managers, these Microsoft insiders share their intimate understanding of LINQ, revealing new patterns and best practices for getting the most out of it. Calvert and Kulkarni begin by clearly explaining how LINQ resolves the long-time “impedance mismatch” between object-oriented code and relational databases. Next, they show how LINQ integrates querying into C# as a “first-class citizen.” Using realistic code examples, they show how LINQ provides a strongly typed, IntelliSense-aware technology for working with data from any source, including SQL databases, XML files, and generic data structures. Calvert and Kulkarni carefully explain LINQ’s transformative, composable, and declarative capabilities. By fully illuminating these three concepts, the authors allow developers to discover LINQ’s full power. In addition to covering core concepts and hands-on LINQ development in C# with LINQ to Objects, LINQ to XML, LINQ to SQL, and LINQ to Entities, they also present advanced topics and new LINQ implementations developed by the LINQ community. This book

- Explains the entire lifecycle of a LINQ project: design, development, debugging, and much more
- Teaches LINQ from both a practical and theoretical perspective
- Leverages C# language features that simplify LINQ development
- Offers developers powerful LINQ query expressions to perform virtually any data-related task
- Teaches how to query SQL databases for objects and how to modify those objects
- Demonstrates effective use stored procedures and database functions with LINQ
- Shows how to add business logic that reflects the specific requirements of your organization
- Teaches developers to create, query, and

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transform XML data with LINQ • Shows how to transform object, relational, and XML data between each other • Offers best patterns and practices for writing robust, easy-to-maintain LINQ code

Visual Studio Tools for Office is both the first and the definitive book on VSTO 2005 programming, written by the inventors of the technology. VSTO is a set of tools that allows professional developers to use the full power of Visual Studio .NET and the .NET Framework to put code behind Excel 2003, Word 2003, Outlook 2003, and InfoPath 2003. VSTO provides functionality never before available to the Office developer: data binding and data/view separation, design-time views of Excel and Word documents inside Visual Studio, rich support for Windows Forms controls in a document, the ability to create custom Office task panes, server-side programming support against Office, and much more. Carter and Lippert cover their subject matter with deft insight into the needs of .NET developers learning VSTO. This book Explains the architecture of Microsoft Office programming and introduces the object models Teaches the three basic patterns of Office solutions: Office automation executables, Office add-ins, and code behind a document Explores the ways of customizing Excel, Word, Outlook, and InfoPath, and plumbs the depths of programming with their events and object models Introduces the VSTO programming model Teaches how to use Windows Forms in VSTO and how to work with the Actions Pane Delves into VSTO data programming and server data scenarios Explores .NET code security and VSTO deployment

Comprehensive summary of the conventions, treaties and agreements administered by the World Intellectual Property Organization.

Accelerated C# 3.0 is the fastest path to C# mastery. All C# programmers need to know and understand how C# really works but very few books address this. No other book covers the subject in the depth that this one does. It teaches both core C# language concepts and how to use them in high-performance code. All programmers moving to C# from any language or moving up to C# 3.0 from C# 2005 will find this book well worth buying, reading, and using as a reference.

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This book constitutes the refereed proceedings of the First International Conference on Human Factors in Computing and Informatics, SouthCHI 2013, held in Maribor, Slovenia, in July 2013. SouthCHI is the successor of the USAB Conference series and promotes all aspects of human-computer interaction. The 38 revised full papers presented together with 12 short papers, 4 posters and 3 doctoral thesis papers were carefully reviewed and selected from 169 submissions. The papers are organized in the following topical sections: measurement and usability evaluation; usability evaluation - medical environments; accessibility methodologies; game-based methodologies; Web-based systems and attribution research; virtual environments; design culture for ageing well: designing for "situated elderliness"; input devices; adaptive systems and intelligent agents; and assessing the state of HCI research and practice in South-Eastern Europe.

Build Web Services Better and Faster with RESTful Techniques and .NET Technologies

Developers are rapidly discovering the power of REST to simplify the development of even the



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by Microsoft through seven recent updates to C#, eight updates to .NET Framework, and the emergence and evolution of .NET Core. Three of Microsoft's leading architects share the same guidance Microsoft teams are using to evolve .NET, so you can design well-performing components that feel like natural extensions to the platform. Building on the book's proven explanatory style, the authors and expert annotators offer insider guidance on new .NET and C# concepts, including major advances in asynchronous programming, lightweight memory access, and shared component distribution. Throughout, they clarify and refresh existing content, helping you take full advantage of best practices based on C# 7.3, .NET Framework 4.7.x, and .NET Core. Discover which practices should always, generally, rarely, or never be used—including practices that are no longer recommended Learn the general philosophy and fundamental principles of modern framework design Explore common framework design patterns with up-to-date C# examples Apply best practices for naming, types, extensibility, and exceptions Master new async programming techniques utilizing Task and ValueTask Make the most of .NET Core Memory and Span lightweight memory access Distribute shared components via NuGet, and manage its considerations and tradeoffs This guide is an indispensable resource for everyone who builds reusable .NET-based frameworks, libraries, or components at any scale: large system frameworks, medium-size reusable layers of large distributed systems, extensions to system frameworks, or even small shared components. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

DVD contains video presentations of topics; sample API specification; other resources. Pro .NET Best Practices is a practical reference to the best practices that you can apply to your .NET projects today. You will learn standards, techniques, and conventions that are sharply focused, realistic and helpful for achieving results, steering clear of unproven, idealistic, and impractical recommendations. Pro .NET Best Practices covers a broad range of practices and principles that development experts agree are the right ways to develop software, which includes continuous integration, automated testing, automated deployment, and code analysis. Whether the solution is from a free and open source or a commercial offering, you will learn how to get a continuous integration server running and executing builds every time code changes. You will write clearer and more maintainable automated testing code that focuses on prevention and helping your .NET project succeed. By learning and following the .NET best practices in this book, you will avoid making the same mistakes once. With this book at your side, you'll get: Real-world, no-nonsense approaches to continuous integration, automated testing, automated deployment, and code analysis Tips and tricks you'll need to clear hurdles that keep others from putting these common sense ideas into common practice Guidance from the minimal, essential approach all the way to what's necessary to deliver at the highest levels of quality and effectiveness Benefit immediately, even before finishing it, from the knowledge, workable advice, and experience found in Pro .NET Best Practices.

????:Richard Helm,Ralph Johnson,John Vlissides ?????:???,??,???

Framework Design GuidelinesConventions, Idioms, and Patterns for Reusable . NET LibrariesAddison-Wesley Professional

Framework Design Guidelines, Third Edition , teaches developers the best practices for designing reusable libraries for the Microsoft .NET Framework. Expanded and updated for .NET 7.3, this new edition focuses on new concepts which have altered the current and best practices for developing components in .NET. This book can improve the work of any .NET developer producing code that other developers will use. It includes

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copious annotations to the guidelines by prominent architects and practitioners of the .NET Framework, providing a lively discussion of the reasons for the guidelines as well as examples of when to break those guidelines Microsoft architects Krzysztof Cwalina, Jeremy Barton, and Brad Abrams teach framework design from the top down. From their significant combined experience and deep insight, you will learn The general philosophy and fundamental principles of framework design Naming guidelines for the various parts of a framework Guidelines for the design and extending of types and members of types Issues affecting--and guidelines for ensuring--extensibility How (and how not) to design exceptions Guidelines for--and examples of--common framework design patterns Guidelines in this book are presented in four major forms: Do, Consider, Avoid, and Do not. These directives help focus attention on practices that should always be used, those that should generally be used, those that should rarely be used, and those that should never be used. Every guideline includes a discussion of its applicability, and most include a code example to help illuminate the dialogue. Framework Design Guidelines, Third Edition, is the only definitive source of best practices for managed code API development, direct from the architects themselves. ????

"No one knows ASP.NET like Fritz Onion. And no one knows .NET security like Keith Brown. Combine the two and what do you get? The most comprehensive and enlightening book on ASP.NET 2.0 industrywide. I'm sure you'll find the book you're holding was worth every penny." --Aaron Skonnard, member of technical staff and cofounder, Pluralsight " Essential ASP.NET 2.0 gets under the hood and dismantles the engine before your eyes. Fritz and Keith understand that we as developers need to understand how it works and this book does exactly that. Their explanation of the ASP.NET 2.0 page event sequence is worth the price of the book alone." --Shawn Wildermuth, Microsoft MVP (C#), "The ADO Guy" " Essential ASP.NET 2.0 is an incredibly useful must-read for any developer.Many books drag you through theory and mindless detail, but this one actually sets up the problems you may encounter with ASP.NET 2.0 and rolls out the alternatives." --Patrick Hynds, Microsoft Regional Director and President, CriticalSites "This book is essential for any ASP.NET developer moving from version 1.x to 2.0. Onion and Brown not only cover the new features, but provide a wealth of insight and detail about how to use them effectively." --Ron Petrusha, author of Visual Basic 2005: The Complete Reference "Drawing on their deep technical knowledge and real-world experience, Fritz and Keith take the reader into some of the less explored and much improved areas of ASP.NET such as diagnostics and state management and performance. Readers will turn to this book over and over again." --John Timney, Microsoft MVP, Senior Web Services Consultant,British Telecom "Fritz and Keith, both established developers and writers in our industry, have succeeded again--enlightening us on the latest advancements found in ASP.NET 2.0. If you're new to ASP.NET or a seasoned veteran, you'll benefit tremendously from their overview, analysis, and sample code." --Joe "MSJoe" Flanigen "This book seeks not only to explain how to effectively build Web sites with ASP.NET, it also gives the reader an idea of how the process works. This insight is essential to creating applications that work with the infrastructure rather than fighting it." --Justin Burtch, Vice President, Newbrook Solutions Essential ASP.NET 2.0 is the Microsoft developer's definitive reference for ASP.NET 2.0 programming. It covers all you need to

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know to build robust, well-designed Web applications with ASP.NET 2.0, Visual Studio 2005, and .NET 2.0. ASP.NET MVP Fritz Onion and Developer Security MVP Keith Brown draw on their unparalleled experience working with ASP.NET 2.0 and teaching it to professional developers. From data binding to security, UIs to performance, they demystify ASP.NET 2.0's most difficult areas, and introduce little-known techniques for leveraging it to the fullest. The perfect companion to his previous classic, *Essential ASP.NET with Examples in C#*, *Essential ASP.NET 2.0* offers hundreds of new C# examples that illuminate today's best Web development practices. (Both C# and VB 2005 versions of all code examples can be downloaded from the companion Web site.) Topics explored in-depth include: Application architecture Code behind Master pages Themes and skins Navigation controls Data binding State management Security Web Parts Diagnostics Performance optimization Asynchronous tasks and pages Simply put, if you want to design and build better ASP.NET 2.0 Web applications, *Essential ASP.NET 2.0* delivers everything you need: insider's knowledge, proven best practices, and outstanding code samples.

*Accelerated VB 9.0* is the fastest path to VB mastery. All VB programmers need to know and understand how VB really works but very few books address this. No other book covers the topic in the depth that this book does. It teaches both core VB language concepts and how to use them in high-performance code. All programmers moving to VB from any language or moving up to VB 9.0 from VB 2005 will find this book well worth buying, reading, and using as a reference.

"If you have any interest in writing .NET programs using Active Directory or ADAM, this is the book you want to read." —Joe Richards, Microsoft MVP, directory services Identity and Access Management are rapidly gaining importance as key areas of practice in the IT industry, and directory services provide the fundamental building blocks that enable them. For enterprise developers struggling to build directory-enabled .NET applications, *The .NET Developer's Guide to Directory Services Programming* will come as a welcome aid. Microsoft MVPs Joe Kaplan and Ryan Dunn have written a practical introduction to programming directory services, using both versions 1.1 and 2.0 of the .NET Framework. The extensive examples in the book are in C#; a companion Web site includes both C# and Visual Basic source code and examples. Readers will Learn to create, rename, update, and delete objects in Active Directory and ADAM Learn to bind to and search directories effectively and efficiently Learn to read and write attributes of all types in the directory Learn to use directory services within ASP.NET applications Get concrete examples of common programming tasks such as managing Active Directory and ADAM users and groups, and performing authentication Experienced .NET developers—those building enterprise applications or simply interested in learning about directory services—will find that *The .NET Developer's Guide to Directory Services Programming* unravels the complexities and helps them to avoid the common pitfalls that developers face.

This book provides the fastest path to C# mastery for programmers transitioning from another object-oriented language. Any C# programmer, at any experience

level, will find it enlightening. It describes how C# works in thorough detail, discusses the most important issues for expert C# coding, and demonstrates with short and precise examples how to design and code effective C# programs. Its succinctness and clarity make it appropriate for anyone familiar with any object-oriented language; its depth will impress even expert programmers. Readers will rapidly become expert in C# by learning how to do things the right way, right from the start.

This Guide seeks to clarify and explain the legal principles enshrined in the copyright and related rights treaties administered by WIPO, and their relationship with policy, economic, cultural and technological considerations. It will be particularly helpful to governments, creators, businesses, the legal profession, academics, consumers and students in all WIPO Member States.

"I come from a T-SQL background, so when I first laid my eyes on SQL Server 2005, I was shocked--and then, I was scared! I didn't have a CLR or XML background and suddenly had an urgent need to learn it. SQL Server 2005 is too big of a release to learn from the books online. Fortunately, now there is a book for developers who need to go from SQL Server 2000 to SQL Server 2005 and to do it as painlessly as possible. Basically, it's one-stop shopping for serious developers who have to get up to speed quickly. I'll keep this one on my desk--not on my bookshelf. Well done, Bob and Dan!" --Dr. Tom Moreau SQL Server MVP and Monthly Columnist SQL Server Professional, Brockman Moreau Consulting Inc. "A SQL book truly for developers, from two authorities on the subject. I'll be turning to this book first when I need to understand a component of SQL Server 2005." --Matt Milner Instructor Pluralsight "An excellent book for those of us who need to get up to speed on what's new in SQL Server 2005. The authors made sure this book includes the final information for the release version of the product. Most other books out now are based on beta versions. It covers key areas from XML and SQLCLR to Notification Services. Although the wide variety of information is great, my favorite part was the advice given on when to use what, and how performance is affected." --Laura Blood Senior Software Developer Blue Note Computing, Inc. "SQL Server 2005 is a massive release with a large number of new features. Many of these features were designed to make SQL Server a great application development platform. This book provides comprehensive information about the SQL Server features of most interest to application developers. The lucid text and wealth of examples will give a developer a clear understanding of how to use SQL Server 2005 to a whole new class of database applications. It should be on every SQL Server developer's bookshelf." --Roger Wolter Solutions Architect Microsoft Corporation "While there will be a lot of good books on SQL Server 2005 development, when people refer to the 'bible, ' they'll be talking about this book." --Dr. Greg Low Senior Consultant Readify Pty Ltd "SQL Server 2005 is loaded with new features and getting a good overview is essential to understand how you can benefit from SQL Server 2005's features as a developer. Bob and Dan's book goes beyond enumerating

the new SQL Server 2005 features, and will provide you with lots of good examples. They did a good job striking a balance between overview and substance." --Michiel Wories Senior Program Manager, SQL Server Microsoft Corporation Few technologies have been as eagerly anticipated as Microsoft SQL Server 2005. Now, two SQL Server insiders deliver the definitive hands-on guide--accurate, comprehensive, and packed with examples. "A Developer's Guide to SQL Server 2005 "starts where Microsoft's documentation, white papers, and Web articles leave off, showing developers how to take full advantage of SQL Server 2005's key innovations. It draws on exceptional cooperation from Microsoft's SQL Server developers and the authors' extensive access to SQL Server 2005 since its earliest alpha releases. You'll find practical explanations of the new SQL Server 2005 data model, built-in .NET hosting, improved programmability, SQL:1999 compliance, and much more. Virtually every key concept is illuminated via sample code that has been fully updated for and tested with the shipping version of the product. Key coverage includes Using SQL Server 2005 as a .NET runtime host: extending the server while enhancing security, reliability, and performance Writing procedures, functions, triggers, and types in .NET languages Exploiting enhancements to T-SQL for robust error-handling, efficient queries, and improved syntax Effectively using the XML data type and XML queries Implementing native SQL Server 2005 Web Services Writing efficient, robust clients for SQL Server 2005 using ADO.NET, classic ADO, and other APIs Taking full advantage of user-defined types (UDTs), query notifications, promotable transactions, and multiple active result sets (MARS) Using SQL Management Objects (SMO), SQL Service Broker, and SQL Server Notification Services to build integrated applications

Refactor with Microsoft Visual Studio 2010 and evolve your software system to support new and ever-changing requirements by updating your C# code base with patterns and principles with this book and eBook.

How do the experts solve difficult problems in software development? In this unique and insightful book, leading computer scientists offer case studies that reveal how they found unusual, carefully designed solutions to high-profile projects. You will be able to look over the shoulder of major coding and design experts to see problems through their eyes. This is not simply another design patterns book, or another software engineering treatise on the right and wrong way to do things. The authors think aloud as they work through their project's architecture, the tradeoffs made in its construction, and when it was important to break rules. This book contains 33 chapters contributed by Brian Kernighan, KarlFogel, Jon Bentley, Tim Bray, Elliotte Rusty Harold, Michael Feathers,Alberto Savoia, Charles Petzold, Douglas Crockford, Henry S. Warren,Jr., Ashish Gulhati, Lincoln Stein, Jim Kent, Jack Dongarra and PiotrLuszczek, Adam Kolawa, Greg Kroah-Hartman, Diomidis Spinellis, AndrewKuchling, Travis E. Oliphant, Ronald Mak, Rogerio Atem de Carvalho andRafael Monnerat, Bryan Cantrill, Jeff Dean and Sanjay Ghemawat, SimonPeyton Jones, Kent Dybvig,

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William Otte and Douglas C. Schmidt, AndrewPatzner, Andreas Zeller, Yukihiro Matsumoto, Arun Mehta, TV Raman,Laura Wingerd and Christopher Seiwald, and Brian Hayes. Beautiful Code is an opportunity for master coders to tell their story. All author royalties will be donated to Amnesty International.

General information on the interface between intellectual property (IP) and traditional knowledge (TK), traditional cultural expressions (TCEs), and genetic resources (GRs). It briefly addresses the most important questions that arise when considering the role that IP principles and systems can play in protecting TK and TCEs from misappropriation, and in generating and equitably sharing benefits from their commercialization, and the role of IP in access to and benefit sharing in GRs.

C# 2010 offers powerful new features, and this book is the fastest path to mastering them—and the rest of C#—for both experienced C# programmers moving to C# 2010 and programmers moving to C# from another object-oriented language. Many books introduce C#, but very few also explain how to use it optimally with the .NET Common Language Runtime (CLR). This book teaches both core C# language concepts and how to wisely employ C# idioms and object-oriented design patterns to exploit the power of C# and the CLR. This book is both a rapid tutorial and a permanent reference. You'll quickly master C# syntax while learning how the CLR simplifies many programming tasks. You'll also learn best practices that ensure your code will be efficient, reusable, and robust. Why spend months or years discovering the best ways to design and code C# when this book will show you how to do things the right way from the start? Comprehensively and concisely explains both C# 2008 and C# 2010 features Focuses on the language itself and on how to use C# 2010 proficiently for all .NET application development Concentrates on how C# features work and how to best use them for robust, high-performance code

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