

Forewords by Miguel de Icaza
and Anders Hejlsberg

Second Edition



Framework Design Guidelines

Conventions, Idioms, and Patterns
for Reusable .NET Libraries



**Krzysztof Cwalina
Brad Abrams**

Framework Design Guidelines Conventions Idioms And Patterns For Reusable Net Libraries

Charlie Calvert,Dinesh Kulkarni



Framework Design Guidelines Conventions Idioms And Patterns For Reusable Net Libraries:

Framework Design Guidelines Krzysztof Cwalina,Jeremy Barton,Brad Abrams,2020-06-01 Master Today's Best Practices for Building Reusable NET Frameworks Libraries and Components NET Core contains advances important to cloud application developers performance resource utilization container support and others This third edition of Framework Design Guidelines adds guidelines related to changes that the NET team adopted during transition from the world of client server application to the world of the Cloud From the Foreword by Scott Guthrie Framework Design Guidelines has long been the definitive guide to best practices for developing components and component libraries in Microsoft NET Now this third edition has been fully revised to reflect game changing API design innovations introduced by Microsoft through eight recent updates to C# eleven updates to NET Framework and the emergence and evolution of NET Core Three leading NET 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 and lightweight memory access Throughout they clarify and refresh existing content helping you take full advantage of best practices based on C# 8 NET Framework 4.8 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 Learn how to design libraries that scale in the cloud Master new async programming techniques utilizing Task and ValueTask Make the most of the Memory and Span types for lightweight memory access 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

Framework Design Guidelines Krzysztof Cwalina,Brad Abrams,2006 DVD contains video presentations of topics sample API specification other resources

Framework Design Guidelines KRZYSZTOF. CWALINA,Brad Abrams,2018-06-09 Framework Design Guidelines Second Edition teaches developers the best practices for designing reusable libraries for the Microsoft NET Framework Expanded and updated for NET 3.5 this new edition focuses on the design issues that directly affect the programmability of a class library specifically its publicly accessible APIs This book can improve the work of any NET developer producing code that other developers will use It includes copious annotations to the guidelines by thirty five 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 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 Second Edition is the only definitive source of best practices for managed code API development direct from the architects themselves Downloadable files can be found at the book's web page Included in these files are the Designing NET Class Libraries video series and instructional presentations by the authors on design guidelines for developing classes and components that extend the NET Framework A sample API specification and other useful resources and tools are also included

Framework Design Guidelines

Krzysztof Cwalina,Jeremy Barton,Brad Abrams,2020 Master Today's Best Practices for Building Reusable NET Frameworks Libraries and Components Framework Design Guidelines has long been the definitive guide to best practices for developing components and component libraries in Microsoft NET Now this third edition has been fully revised to reflect game changing API design innovations introduced 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

Pro .NET Best Practices Stephen Ritchie,2012-01-24 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

Windows Communication Foundation 3.5 Unleashed
Craig McMurty,Nigel Watling,Matt Winkler,Marc Mercuri,2008-10-07 Windows Communication Foundation WCF is Microsoft s dynamic technology for allowing autonomous software to communicate Superseding earlier technologies such as COM DCOM NET Remoting ASP NET Web Services and the Web Services Enhancements for NET WCF provides a single solution that is designed to always be the best way to exchange data among software entities It also provides the infrastructure for developing the next generation of Web Services with support for the WS family of specifications and a new serialization system for enhanced performance In the 3 5 release WCF has been expanded to include support for REST JSON and Syndication RSS and Atom services further broadening the possibilities for what can be done For information technology professionals WCF supplies an impressive array of administration tools that enterprises and software vendors can use to reduce the cost of ownership of their solutions without writing a single line of code Most important WCF delivers on the promise of model driven software development with the new software factory approach by which one can iteratively design solutions in a modeling language and generate executables from lower level class libraries Windows Communication Foundation 3 5 Unleashed is designed to be the essential resource for software developers and architects working with WCF The book guides readers through a conceptual understanding of all the facilities of WCF and provides step by step guides to applying the technology to practical problems As evangelists at Microsoft for WCF WF and CardSpace Craig McMurtry Marc Mercuri Nigel Watling and Matt Winkler are uniquely positioned to write this book They had access to the development team and to the product as it was being built Their work with enterprises and outside software vendors has given them unique insight into how others see the software how they want to apply it and the challenges they face in doing so Gives you nearly 100 best practices for programming with WCF Provides detailed coverage of how to version services that you will not find

anywhere else Delves into using WCF together with Windows Workflow Foundation WF and Windows CardSpace Provides detailed coverage of the new high performance data contract serializer for NET Walks you through creating secure reliable transacted messaging and how to understand the available options Introduces you to federated claims based security and shows you how to incorporate SAML and WS Trust security token services into your architecture Provides step by step instructions for how to customize every aspect of WCF Shows you how to add behaviors communication channels message encoders and transports Presents options for implementing publish subscribe solutions Gives clear guidance on peer to peer communications with WCF

Accelerated C# 2005 Trey Nash, 2007-02-01 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

Accelerated VB 2005 Trey Nash, 2007-04-30 Accelerated VB 2005 provides the fastest path to Visual Basic expertise for anyone already familiar with object oriented programming While books introduce VB very few also explain optimizing its use with the NET common language runtime CLR But this book both teaches core VB language concepts and covers in depth the concepts and techniques for professionally exploiting the power of VB and the CLR You ll quickly master VB 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 many months or years discovering the best ways to design and code VB when this book will show you how to do things the right way right from the start Youll quickly gain thorough understanding of VB 2005 This book covers the all new features of VB 2005 Authors Guy Fouch and Trey Nash describe and explain VB best practices The book presents canonical forms for VB classes and interfaces Examples demonstrate bullet proof exception safe code and efficient multithreaded applications

Advanced ASP.NET AJAX Server Controls For .NET Framework 3.5 Adam Calderon, Joel Rumerman, 2008-06-26 ASP NET AJAX server controls can encapsulate even the most powerful AJAX functionality helping you build more elegant maintainable and scalable applications This is the first comprehensive code rich guide to custom ASP NET AJAX server controls for experienced ASP NET developers Unlike other books on ASP NET AJAX this book focuses solely on server control development and reflects the significant improvements in ASP NET 3 5 AJAX and the latest Visual Studio 2008 features for streamlining AJAX development Adam Calderon and Joel Rumerman first review the core Microsoft AJAX Library and JavaScript techniques needed to support a rich client side experience Next they build upon these techniques showing how to create distributable AJAX enabled controls that include rich browser independent JavaScript client side functionality The authors thoroughly explain both the JavaScript and NET aspects of control development and how these two distinct

environments come together to provide a foundation for building a rich user experience using ASP.NET AJAX. Create object oriented cross browser JavaScript that supports .NET style classes, interfaces, inheritance and method overloading. Work with components, behaviors and controls and learn how they relate to DOM elements. Learn Sys.Application and the part it plays in object creation, initialization and events in the Microsoft AJAX Library. Build Extender and Script controls that provide integrated script generation for their corresponding client side counterparts. Localize ASP.NET AJAX controls including client script. Discover ASP.NET AJAX client and server communication architecture and the new support for Windows Communication Foundation (WCF). Understand ASP.NET AJAX Application Services. Create custom Application Services. Design controls for a partial postback environment. Understand the AJAX Control Toolkit architecture and the many features it provides. Develop highly interactive controls using the AJAX Control Toolkit. Understand AJAX Control Toolkit architecture and build controls that utilize the toolkit.

Effective REST Services via .NET Kenn Scribner, Scott Seely, 2009-04-17. 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 most sophisticated Web services and today's .NET platform is packed with tools for effective REST development. Now for the first time there's a complete practical guide to building REST based services with .NET development technologies. Long time .NET and Web services developers and authors Kenn Scribner and Scott Seely explain why REST fits so smoothly into the Internet ecosystem, why RESTful services are so much easier to build, what it means to be RESTful and how to identify behaviors that are not RESTful. Next they review the core Internet standards and .NET technologies used to develop RESTful solutions and show exactly how to apply them on both the client and server side. Using detailed code examples Scribner and Seely begin with simple ASP.NET techniques and then introduce increasingly powerful options including Windows Communication Foundation (WCF) and Microsoft's cloud computing initiative Azure. Coverage includes Accessing RESTful services from desktop applications using Windows Forms and WPF. Supporting Web client operations using Silverlight 2.0, JavaScript and other technologies. Understanding how IIS 7.0 processes HTTP requests and using that knowledge to build better REST services. Constructing REST services based on traditional ASP.NET constructs. Utilizing the ASP.NET MVC Framework to implement RESTful services more effectively. Taking advantage of WCF 3.5's powerful REST specific capabilities. Creating RESTful data views effortlessly with ADO.NET Data Services. Leveraging Microsoft's Azure cloud computing platform to build innovative new services. Choosing the right .NET technology for each REST application or service.

Accelerated C# 2008 Trey Nash, 2008-02-07. Many books introduce C# but if you don't have the time to read 1200 pages Accelerated C# 2008 gives you everything you need to know about C# 2008 in a concentrated 500 pages of must know information and best practices. C# 2008 offers powerful new features and Accelerated C# 2008 is the fastest path to mastery for both experienced C# programmers moving to C# 2008 and programmers moving to C# from another object oriented language. You'll quickly master C# syntax while learning how the CLR simplifies many programming tasks. You

It 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 right from the start
 Comprehensively and concisely explains both C 2005 and C 2008 features Focuses on the language itself and on how to use C 2008 proficiently for all NET application development Concentrates on how C features work and how to best use them for robust high performance code

Essential LINQ Charlie Calvert,Dinesh Kulkarni,2009-03-12 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 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

Designing Forms for Microsoft Office InfoPath and Forms Services 2007 Scott Roberts,Hagen Green,2007-02-05 Microsoft Office InfoPath represents a revolutionary leap in XML technologies and a new paradigm for gathering business critical information I am delighted that Scott Roberts and Hagen Green two distinguished members of the InfoPath product team decided to share their experience in this book From the Foreword by Jean Paoli cocreator of XML 1 0 and Microsoft Office InfoPath Microsoft Office InfoPath 2007 offers breakthrough tools for gathering managing and integrating business critical information and creating efficient forms driven processes Two longtime members of Microsoft s InfoPath product team have

written the first comprehensive hands on guide to building successful XML based solutions with InfoPath 2007 The book opens with a practical primer on the fundamentals of InfoPath form template design for information workers and application developers at all levels of experience It then moves into advanced techniques for customizing integrating and extending form templates with all the code examples and detail needed by professional developers Learn how to Design form templates create blank form templates insert and customize controls use advanced formatting and construct and lay out views Work with data start with XML data or schema manually edit data sources and understand design time visuals Add custom business logic to forms and integrate them with other applications Retrieve and query data from external data sources including XML files databases SharePoint lists Web services and ADO NET DataSets Submit and receive form data using ADO NET Save preview and publish to e mail SharePoint and more Build reusable components with template parts Create workflows with SharePoint and InfoPath E Mail Forms Administer Forms Services and Web enabled form templates Build advanced form templates using C form code custom controls add ins and the new InfoPath 2007 managed object model Design form templates using Visual Studio Tools for Office VSTO Update secure and optimize your form templates List of Figures List of Tables Foreword Preface About the Authors PART I Designing Forms Chapter 1 Introduction to InfoPath 2007 Chapter 2 Basics of InfoPath Form Design Chapter 3 Working with Data Chapter 4 Advanced Controls and Customization Chapter 5 Adding Logic without Code Chapter 6 Retrieving Data from External Sources Chapter 7 Extended Features of Data Connections Chapter 8 Submitting Form Data Chapter 9 Saving and Publishing Chapter 10 Building Reusable Components Chapter 11 Security and Deployment Chapter 12 Creating Reports Chapter 13 Workflow Chapter 14 Introduction to Forms Services Part II Advanced Form Design Chapter 15 Writing Code in InfoPath Chapter 16 Visual Studio Tools for Microsoft Office InfoPath 2007 Chapter 17 Advanced Forms Services Chapter 18 Hosting InfoPath Chapter 19 Building Custom Controls Using ActiveX Technologies Chapter 20 Add ins Chapter 21 Importers and Exporters Appendix Further Reading Index

Essential ASP.NET 2.0 Fritz Onion,Keith Brown,2006-10-30 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 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

The .NET Developer's Guide to Directory Services Programming Joe Kaplan,Ryan Dunn,2006-05-08 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

Visual Studio Tools for Office Eric Carter, Eric Lippert, 2006-04-26 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

Dependency Injection Principles, Practices, and Patterns Mark Seemann, Steven van Deursen, 2019-03-06 Summary Dependency Injection Principles Practices and Patterns teaches you to use DI to reduce hard coded dependencies between application components You'll start by learning what DI is and what types of applications will benefit from it Then you'll work through concrete scenarios using C# and the .NET framework to implement DI in your own projects As you dive into the thoroughly explained examples you'll develop a foundation you can apply to any of the many DI libraries for .NET and .NET Core Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Dependency Injection DI is a great way to reduce tight coupling between software components Instead of hard coding dependencies such as specifying a database driver you make those connections through a third party Central to application frameworks like ASP .NET Core DI enables you to better manage changes and other complexity in your software About the Book Dependency Injection Principles Practices and Patterns is a revised and expanded edition of the bestselling classic Dependency Injection in .NET It teaches you DI from the ground up featuring relevant examples patterns and anti patterns for creating loosely coupled well structured applications The well annotated code and diagrams use C# examples to illustrate principles that work flawlessly with modern object oriented languages and DI libraries What's Inside Refactoring existing code into loosely coupled code DI techniques that work with statically typed OO languages Integration with common .NET frameworks Updated examples illustrating DI in .NET

Core About the Reader For intermediate OO developers About the Authors Mark Seemann is a programmer software architect and speaker who has been working with software since 1995 including six years with Microsoft Steven van Deursen is a seasoned NET developer and architect and the author and maintainer of the Simple Injector DI library Table of Contents PART 1 Putting Dependency Injection on the map The basics of Dependency Injection What why and how Writing tightly coupled code Writing loosely coupled code PART 2 Catalog DI patterns DI anti patterns Code smells PART 3 Pure DI Application composition Object lifetime Interception Aspect Oriented Programming by design Tool based Aspect Oriented Programming PART 4 DI Containers DI Container introduction The Autofac DI Container The Simple Injector DI Container The Microsoft Extensions DependencyInjection DI Container **The C# Programming Language** Anders Hejlsberg, Scott Wiltamuth, Peter Golde, 2006 C is a simple modern object oriented and type safe programming language that combines the high productivity of rapid application development languages with the raw power of C and C This book provides the complete specification of the language along with descriptions reference materials and code samples from the C design team

Accelerated VB 2008 Trey Nash, 2008-03-11 Visual Basic 2008 offers powerful new features and Accelerated VB 2008 is the fastest path to mastering them and the rest of Visual Basic for both experienced Visual Basic programmers moving to VB 2008 and programmers moving to Visual Basic from another object oriented language Many books introduce VB but very few also explain how to use it optimally with the NET common language runtime CLR This book teaches both core Visual Basic language concepts and how to wisely employ VB idioms and object oriented design patterns to exploit the power of VB and the CLR Accelerated VB 2008 is both a rapid tutorial and a permanent reference You ll quickly master VB 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 VB when this book will show you how to do things the right way right from the start Comprehensively and concisely explains both Visual Basic 2005 and Visual Basic 2008 features Focuses on the language itself and on how to use Visual Basic 2008 proficiently for all NET application development Concentrates on how VB features work and how to best use them for robust high performance code *Visual Studio Team System* James W. Newkirk, Will W. Stott, 2007-05-17 Visual Studio Team System VSTS gives Microsoft development teams a powerful integrated toolset for Agile development Visual Studio Team System Better Software Development for Agile Teams is a comprehensive start to finish guide to making the most of VSTS in real world Agile environments Using a book length case study the authors show how to use VSTS to improve every aspect of software development step by step from project planning through design and from coding through testing and deployment Agile consultant Will Stott and Microsoft development lead James Newkirk carefully integrate theory and practice offering hands on exercises practical insights into core Extreme Programming XP techniques and much more Coverage includes Using VSTS to support the transition to Agile values and techniques Forming Agile teams and building effective process frameworks

Leveraging Team Foundation Version Control to help teams manage change and share their code effectively Implementing incremental builds and integration with Team Foundation Build Making the most of VSTS tools for Test Driven Development and refactoring Bringing agility into software modeling and using patterns to model solutions more effectively Using the FIT integrated testing framework to make sure customers are getting what they need Estimating prioritizing and planning Agile projects

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