

Thinking In Linq Harnessing The Power Of Functional Programming In Net Applications

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[Code Complete](#) - Steve McConnell 2004-06-09
Widely considered one of the best practical guides to programming, Steve McConnell's original CODE COMPLETE has been helping

developers write better software for more than a decade. Now this classic book has been fully updated and revised with leading-edge practices—and hundreds of new code

samples—illustrating the art and science of software construction. Capturing the body of knowledge available from research, academia, and everyday commercial practice, McConnell synthesizes the most effective techniques and must-know principles into clear, pragmatic guidance. No matter what your experience level, development environment, or project size, this book will inform and stimulate your thinking—and help you build the highest quality code. Discover the timeless techniques and strategies that help you: Design for minimum complexity and maximum creativity Reap the benefits of collaborative development Apply defensive programming techniques to reduce and flush out errors Exploit opportunities to refactor—or evolve—code, and do it safely Use construction practices that are right-weight for your project Debug problems quickly and effectively Resolve critical construction issues early and correctly Build quality into the beginning, middle, and end of your project

Thinking in LINQ - Sudipta Mukherjee 2014-12-03
LINQ represents a paradigm shift for developers used to an imperative/object oriented programming style, because LINQ draws on functional programming principles. Thinking in LINQ addresses the differences between these two by providing a set of succinct recipes arranged in several groups, including: Basic and extended LINQ operators Text processing Loop refactoring Monitoring code health Reactive Extensions (Rx.NET) Building domain-specific languages Using the familiar "recipes" approach, Thinking in LINQ shows you how to approach building LINQ-based solutions, how such solutions are different from what you already know, and why they're better. The recipes cover a wide range of real-world problems, from using LINQ to replace existing loops, to writing your own Swype-like keyboard entry routines, to finding duplicate files on your hard drive. The goal of these recipes is to get you "thinking in LINQ," so you can use the techniques in your own code to

write more efficient and concise data-intensive applications.

Pro WPF and Silverlight MVVM - Gary Hall
2011-08-07

WPF and Silverlight are unlike any other user interface (UI) technologies. They have been built to a new paradigm that—if harnessed correctly—can yield unprecedented power and performance. This book shows you how to control that power to produce clean, testable, maintainable code. It is now recognized that any non-trivial WPF or Silverlight application needs be designed around the Model-View-ViewModel (MVVM) design pattern in order to unlock the technology's full data-binding potential. However, the knowledge of how to do this is missing from a large part of the development community—even amongst those who work with WPF and Silverlight on a daily basis. Too often there is a reliance on programmatic interaction between controls and not enough trust in the technologies' data-binding capabilities. This leads to a clouding of

design values and an inevitable loss of performance, scalability, and maintainability throughout the application. Pro WPF and Silverlight MVVM will show you how to arrange your application so that it can grow as much as required in any direction without danger of collapse.

.NET Design Patterns - Praseed Pai 2017-01-31

Explore the world of .NET design patterns and bring the benefits that the right patterns can offer to your toolkit today About This Book Dive into the powerful fundamentals of .NET framework for software development The code is explained piece by piece and the application of the pattern is also showcased. This fast-paced guide shows you how to implement the patterns into your existing applications Who This Book Is For This book is for those with familiarity with .NET development who would like to take their skills to the next level and be in the driver's seat when it comes to modern development techniques. Basic object-oriented C#

programming experience and an elementary familiarity with the .NET framework library is required. What You Will Learn Put patterns and pattern catalogs into the right perspective Apply patterns for software development under C#/.NET Use GoF and other patterns in real-life development scenarios Be able to enrich your design vocabulary and well articulate your design thoughts Leverage object/functional programming by mixing OOP and FP Understand the reactive programming model using Rx and RxJs Writing compositional code using C# LINQ constructs Be able to implement concurrent/parallel programming techniques using idioms under .NET Avoiding pitfalls when creating compositional, readable, and maintainable code using imperative, functional, and reactive code. In Detail Knowing about design patterns enables developers to improve their code base, promoting code reuse and making their design more robust. This book focuses on the practical aspects of programming

in .NET. You will learn about some of the relevant design patterns (and their application) that are most widely used. We start with classic object-oriented programming (OOP) techniques, evaluate parallel programming and concurrency models, enhance implementations by mixing OOP and functional programming, and finally to the reactive programming model where functional programming and OOP are used in synergy to write better code. Throughout this book, we'll show you how to deal with architecture/design techniques, GoF patterns, relevant patterns from other catalogs, functional programming, and reactive programming techniques. After reading this book, you will be able to convincingly leverage these design patterns (factory pattern, builder pattern, prototype pattern, adapter pattern, facade pattern, decorator pattern, observer pattern and so on) for your programs. You will also be able to write fluid functional code in .NET that would leverage concurrency and parallelism! Style and

approach This tutorial-based book takes a step-by-step approach. It covers the major patterns and explains them in a detailed manner along with code examples.

How to Make Money in Intraday Trading -

Ashwani Gujral 2018-05-05

Professional Visual Studio 2017 - Bruce Johnson
2017-10-18

Skip the basics and delve right into Visual Studio 2017 advanced features and tools. *Professional Visual Studio 2017* is the industry-favorite guide to getting the most out of Microsoft's primary programming technology. From touring the new UI to exploiting advanced functionality, this book is designed to help professional developers become more productive. A unique IDE-centric approach provides a clear path through the typical workflow while exploring the nooks and crannies that can make your job easier. Visual Studio 2017 includes a host of features aimed at improving developer productivity and UI, and this

book covers them all with clear explanation, new figures, and expert insight. Whether you're new to VS or just upgrading, this all-inclusive guide is an essential resource to keep within arm's reach. Visual Studio 2017 fixes the crucial issues that kept professionals from adopting VS 2015, and includes new features and tools that streamline the developer's job. This book provides the straightforward answers you need so you can get up to speed quickly and get back to work. Master the core functionality of Visual Studio 2017. Dig into the tools that make writing code easier. Tailor the environment to your workflow, not the other way around. Work your way through configuration, debugging, building, deployment, customizing, and more. Microsoft is changing their release cadence—it's only been about two years since the last release—so developers need to quickly get a handle on new tools and features if they hope to remain productive. The 2017 release is designed specifically to help you get more done, in less time, with greater accuracy.

and attention to detail. If you're ready to get acquainted, Professional Visual Studio 2017 is your ideal guide.

Functional Thinking - Neal Ford 2014-06-30

If you're familiar with functional programming basics and want to gain a much deeper understanding, this in-depth guide takes you beyond syntax and demonstrates how you need to think in a new way. Software architect Neal Ford shows intermediate to advanced developers how functional coding allows you to step back a level of abstraction so you can see your programming problem with greater clarity. Each chapter shows you various examples of functional thinking, using numerous code examples from Java 8 and other JVM languages that include functional capabilities. This book may bend your mind, but you'll come away with a much better grasp of functional programming concepts. Understand why many imperative languages are adding functional capabilities Compare functional and imperative solutions to

common problems Examine ways to cede control of routine chores to the runtime Learn how memoization and laziness eliminate hand-crafted solutions Explore functional approaches to design patterns and code reuse View real-world examples of functional thinking with Java 8, and in functional architectures and web frameworks Learn the pros and cons of living in a paradigmatically richer world If you're new to functional programming, check out Josh Backfield's book *Becoming Functional*.

Instant .NET 4.5 Extension Methods How-to
- Shawn R. McLean 2013-04-24

Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. The book is packed with quick recipes on creating and extending extension methods in your .NET applications. This book is for developers in C# and the .NET framework, with a basic understanding of language syntax and OOP concepts. Readers are expected to have some experience in finding their way around

Visual Studio.

The C# Player's Guide (eBook) - R. B. Whitaker
2012-09-27

Book of F# - Dave Fancher 2014-03-01

F# brings the power of functional-first programming to the .NET Framework, a platform for developing software in the Microsoft Windows ecosystem. If you're a traditional .NET developer used to C# and Visual Basic, discovering F# will be a revelation that will change how you code, and how you think about coding. In *The Book of F#*, Microsoft MVP Dave Fancher shares his expertise and teaches you how to wield the power of F# to write succinct, reliable, and predictable code. As you learn to take advantage of features like default immutability, pipelining, type inference, and pattern matching, you'll be amazed at how efficient and elegant your code can be. You'll also learn how to: * Exploit F#'s functional nature using currying, partial application, and delegation * Streamline type

creation and safety with record types and discriminated unions * Use collection types and modules to handle data sets more effectively * Use pattern matching to decompose complex types and branch your code within a single expression * Make your software more responsive with parallel programming and asynchronous workflows * Harness object orientation to develop rich frameworks and interact with code written in other .NET languages * Use query expressions and type providers to access and manipulate data sets from disparate sources Break free of that old school of programming. *The Book of F#* will show you how to unleash the expressiveness of F# to create smarter, leaner code.

Visual Basic .NET and XML - Rod Stephens
2002-09-18

An accessible and step-by-step approach to using VB.NET and XML enterprise application development XML is a tool for interacting with, describing, and transporting data between

machines across networks and across the Internet—perfectly suited for Microsoft's .NET plan to fully integrate the Internet into distributed computing. By using real-world and fully-functional examples, this book quickly brings Visual Basic programmers and developers up to speed on XML for enterprise application development. The authors include an overview of XML and how it works with VB.NET, then explain how to use it to manipulate data in distributed environments. Companion Web site at www.vb-helper.com features the complete working code for all the examples built in the book. Microsoft Technologies .NET Platform: The next big overhaul to Microsoft's technologies that will bring enterprise distributed computing to the next level by fully integrating the Internet into the development platform. This will allow interaction between any machine, on any platform, and on any device. Visual Basic.NET: The update to this popular visual programming language will offer greater Web functionality,

more sophisticated object-oriented language features, links to Microsoft's new common runtime, and a new interface. ASP.NET: A programming framework (formerly known as Active Server Pages) for building powerful Web-based enterprise applications; can be programmed using VB.NET or C#. C#: Microsoft's new truly object-oriented programming language that builds on the strengths of C++ and the ease of Visual Basic; promises to give Sun's Java a run for its money.

Learning Functional Programming in Go -

Lex Sheehan 2017-11-24

Function literals, Monads, Lazy evaluation, Currying, and more About This Book Write concise and maintainable code with streams and high-order functions Understand the benefits of currying your Golang functions Learn the most effective design patterns for functional programming and learn when to apply each of them Build distributed MapReduce solutions using Go Who This Book Is For This book is for

Golang developers comfortable with OOP and interested in learning how to apply the functional paradigm to create robust and testable apps. Prior programming experience with Go would be helpful, but not mandatory. What You Will Learn

- Learn how to compose reliable applications using high-order functions
- Explore techniques to eliminate side-effects using FP techniques such as currying
- Use first-class functions to implement pure functions
- Understand how to implement a lambda expression in Go
- Compose a working application using the decorator pattern
- Create faster programs using lazy evaluation
- Use Go concurrency constructs to compose a functionality pipeline
- Understand category theory and what it has to do with FP

In Detail Functional programming is a popular programming paradigm that is used to simplify many tasks and will help you write flexible and succinct code. It allows you to decompose your programs into smaller, highly reusable components, without applying conceptual restraints on how the

software should be modularized. This book bridges the language gap for Golang developers by showing you how to create and consume functional constructs in Golang. The book is divided into four modules. The first module explains the functional style of programming; pure functional programming (FP), manipulating collections, and using high-order functions. In the second module, you will learn design patterns that you can use to build FP-style applications. In the next module, you will learn FP techniques that you can use to improve your API signatures, to increase performance, and to build better Cloud-native applications. The last module delves into the underpinnings of FP with an introduction to category theory for software developers to give you a real understanding of what pure functional programming is all about, along with applicable code examples. By the end of the book, you will be adept at building applications the functional way. Style and approach This book takes a pragmatic approach and shows you

techniques to write better functional constructs in Golang. We'll also show you how use these concepts to build robust and testable apps.

[The C# Programming Yellow Book](#) - Rob Miles
2018-10-19

Learn C# from first principles the Rob Miles way. With jokes, puns, and a rigorous problem solving based approach. You can download all the code samples used in the book from here: <http://www.robmiles.com/s/Yellow-Book-Code-Samples-64.z>

Microsoft Dynamics 365 Extensions

Cookbook - Rami Mounla 2017-06-07

More than 80 recipes to help you leverage the various extensibility features available for Microsoft Dynamics and solve problems easily
About This Book Customize, configure, and extend the vanilla features of Dynamics 365 to deliver bespoke CRM solutions fit for any organization Implement business logic using point-and-click configuration, plugins, and client-side scripts with MS Dynamics 365 Built a

DevOps pipeline as well as Integrate Dynamics 365 with Azure and other platforms Who This Book Is For This book is for developers, administrators, consultants, and power users who want to learn about best practices when extending Dynamics 365 for enterprises. You are expected to have a basic understand of the Dynamics CRM/365 platform. What You Will Learn Customize, configure, and extend Microsoft Dynamics 365 Create business process automation Develop client-side extensions to add features to the Dynamics 365 user interface Set up a security model to securely manage data with Dynamics 365 Develop and deploy clean code plugins to implement a wide range of custom behaviors Use third-party applications, tools, and patterns to integrate Dynamics 365 with other platforms Integrate with Azure, Java, SSIS, PowerBI, and Octopus Deploy Build an end-to-end DevOps pipeline for Dynamics 365 In Detail Microsoft Dynamics 365 is a powerful tool. It has many unique features that empower

organisations to bridge common business challenges and technology pitfalls that would usually hinder the adoption of a CRM solution. This book sets out to enable you to harness the power of Dynamics 365 and cater to your unique circumstances. We start this book with a no-code configuration chapter and explain the schema, fields, and forms modeling techniques. We then move on to server-side and client-side custom code extensions. Next, you will see how best to integrate Dynamics 365 in a DevOps pipeline to package and deploy your extensions to the various SDLC environments. This book also covers modern libraries and integration patterns that can be used with Dynamics 365 (Angular, 3 tiers, and many others). Finally, we end by highlighting some of the powerful extensions available. Throughout we explain a range of design patterns and techniques that can be used to enhance your code quality; the aim is that you will learn to write enterprise-scale quality code. Style and approach This book takes a recipe-

based approach, delivering practical examples and use cases so that you can identify the best possible approach to extend your Dynamics 365 deployment and tackle your specific business problems.

Unity in Action - Joseph Hocking 2018-03-27 Summary Manning's bestselling and highly recommended Unity book has been fully revised! Unity in Action, Second Edition teaches you to write and deploy games with the Unity game development platform. You'll master the Unity toolset from the ground up, adding the skills you need to go from application coder to game developer. Foreword by Jesse Schell, author of The Art of Game Design Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Build your next game without sweating the low-level details. The Unity game development platform handles the heavy lifting, so you can focus on game play, graphics, and user experience. With support for C#

programming, a huge ecosystem of production-quality prebuilt assets, and a strong dev community, Unity can get your next great game idea off the drawing board and onto the screen! About the Book Unity in Action, Second Edition teaches you to write and deploy games with Unity. As you explore the many interesting examples, you'll get hands-on practice with Unity's intuitive workflow tools and state-of-the-art rendering engine. This practical guide exposes every aspect of the game dev process, from the initial groundwork to creating custom AI scripts and building easy-to-read UIs. And because you asked for it, this totally revised Second Edition includes a new chapter on building 2D platformers with Unity's expanded 2D toolkit. What's Inside Revised for new best practices, updates, and more! 2D and 3D games Characters that run, jump, and bump into things Connect your games to the internet About the Reader You need to know C# or a similar language. No game development knowledge is

assumed. About the Author Joe Hocking is a software engineer and Unity expert specializing in interactive media development. Table of Contents PART 1 - First steps Getting to know Unity Building a demo that puts you in 3D space Adding enemies and projectiles to the 3D game Developing graphics for your game PART 2 - Getting comfortable Building a Memory game using Unity's 2D functionality Creating a basic 2D Platformer Putting a GUI onto a game Creating a third-person 3D game: player movement and animation Adding interactive devices and items within the game PART 3 - Strong finish Connecting your game to the internet Playing audio: sound effects and music Putting the parts together into a complete game Deploying your game to players' devices C++ AMP - Ade Miller 2012-09-15 Capitalize on the faster GPU processors in today's computers with the C++ AMP code library—and bring massive parallelism to your project. With this practical book, experienced C++ developers

will learn parallel programming fundamentals with C++ AMP through detailed examples, code snippets, and case studies. Learn the advantages of parallelism and get best practices for harnessing this technology in your applications. Discover how to: Gain greater code performance using graphics processing units (GPUs) Choose accelerators that enable you to write code for GPUs Apply thread tiles, tile barriers, and tile static memory Debug C++ AMP code with Microsoft Visual Studio Use profiling tools to track the performance of your code

Contingency, Irony, and Solidarity - Richard Rorty
1989-02-24

In this 1989 book Rorty argues that thinkers such as Nietzsche, Freud, and Wittgenstein have enabled societies to see themselves as historical contingencies, rather than as expressions of underlying, ahistorical human nature or as realizations of suprahistorical goals. This ironic perspective on the human condition is valuable on a private level, although it cannot advance the

social or political goals of liberalism. In fact Rorty believes that it is literature not philosophy that can do this, by promoting a genuine sense of human solidarity. A truly liberal culture, acutely aware of its own historical contingency, would fuse the private, individual freedom of the ironic, philosophical perspective with the public project of human solidarity as it is engendered through the insights and sensibilities of great writers. The book has a characteristically wide range of reference from philosophy through social theory to literary criticism. It confirms Rorty's status as a uniquely subtle theorist, whose writing will prove absorbing to academic and nonacademic readers alike.

[LINQ in Action](#) - Steve Eichert 2008-01-31

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.

LINQ Pocket Reference - Joseph Albahari
2008-02-26

This guide has the detail needed to grasp Microsoft's new querying technology, and concise explanations to help users learn it quickly. For those already applying LINQ, the book serves as an on-the-job reference.

C# 6.0 Cookbook - Jay Hilyard 2015-09-29

Completely updated for C# 6.0, the new edition of this bestseller offers more than 150 code recipes to common and not-so-common problems that C# programmers face every day. More than a third of the recipes have been rewritten to take advantage of new C# 6.0 features. If you prefer solutions to general C# language instruction and quick answers to theory, this is your book. C# 6.0 Cookbook offers new recipes for asynchronous methods, dynamic objects, enhanced error handling, the Roslyn compiler, and more. Here are some of topics covered: Classes and generics Collections, enumerators, and iterators Data types LINQ and Lambda expressions Exception handling Reflection and dynamic programming Regular expressions Filesystem interactions Networking and the Web XML usage Threading, Synchronization, and Concurrency Each recipe in the book includes tested code that you can download from oreilly.com and reuse in your own applications, and each one includes a detailed

discussion of how and why the underlying technology works. You don't have to be an experienced C# or .NET developer to use C# 6.0 Cookbook. You just have to be someone who wants to solve a problem now, without having to learn all the related theory first.

The Book of F# - Dave Fancher 2014-03-01

F# brings the power of functional-first programming to the .NET Framework, a platform for developing software in the Microsoft Windows ecosystem. If you're a traditional .NET developer used to C# and Visual Basic, discovering F# will be a revelation that will change how you code, and how you think about coding. In The Book of F#, Microsoft MVP Dave Fancher shares his expertise and teaches you how to wield the power of F# to write succinct, reliable, and predictable code. As you learn to take advantage of features like default immutability, pipelining, type inference, and pattern matching, you'll be amazed at how efficient and elegant your code can be. You'll also learn how to: -Exploit F#'s

functional nature using currying, partial application, and delegation -Streamline type creation and safety with record types and discriminated unions -Use collection types and modules to handle data sets more effectively - Use pattern matching to decompose complex types and branch your code within a single expression -Make your software more responsive with parallel programming and asynchronous workflows -Harness object orientation to develop rich frameworks and interact with code written in other .NET languages -Use query expressions and type providers to access and manipulate data sets from disparate sources Break free of that old school of programming. The Book of F# will show you how to unleash the expressiveness of F# to create smarter, leaner code.

Programming Visual Basic 2008 - Tim Patrick
2008-05-27

Ever since Visual Basic was merged into .NET, it's become the core language for creating business applications with Windows. The latest version, VB

2008, is even more useful -- and provides even more incentive for migrating from VB 6. All it lacks is a good book on how to harness its power. Programming Visual Basic 2008 fills the void. Written in a lively and engaging style by a developer who's grown up with Visual Basic, including both VB 6 and VB .NET, this hands-on guide addresses the core topics of the new VB, from basic to complex, with plenty of code examples. Programming Visual Basic 2008 also examines .NET programming from the application level with a chapter-by-chapter plan for developing, documenting, and deploying a full data-driven application. You learn, step-by-step, how to build and deploy a library management system, complete with patron, inventory, and barcode support. The book's broad range of topics include: VB language and its syntax An overview of the .NET Framework Object-oriented development in VB and .NET Generic objects, collections, and nullable types Design and management of software projects Integrating

desktop features with Windows Forms Database design with SQL Server 2008 Database interface design with ADO.NET The new LINQ feature, and how to use it within VB and .NET Embedding XML within application source code Encryption and authentication in .NET Interacting with data stored in files and directories Web development using ASP.NET Deploying an application to a user's workstation And much more Programming Visual Basic 2008 is ideal for VB 6 programmers who are ready to move to .NET, as well as VB.NET programmers who wish to improve their project-focused software development skills. Programming novices and developers coming from other languages will find the book valuable because of its language instruction and project design knowledge. Once you finish the book, you will have a firm grasp of VB 2008's core concepts and language elements, and understand how to build VB projects as they were intended -- as complete, cohesive solutions.

Professional SharePoint 2010 Development

- Thomas Rizzo 2010-07-23

Learn to leverage the features of the newest version of SharePoint, in this update to the bestseller More than simply a portal, SharePoint is Microsoft's popular content management solution for building intranets and Web sites or hosting wikis and blogs. Offering broad coverage on all aspects of development for the SharePoint platform, this comprehensive book shows you exactly what SharePoint does, how to build solutions, and what features are accessible within SharePoint. Written by one of the most recognized names in SharePoint development, Professional SharePoint 2010 Development offers an extensive selection of field-tested best practices that shows you how to leverage the vast power of this multi-faceted tool to build custom workflow and content management applications. Plus, you'll discover how to take advantage of the new features to roll out new SharePoint sites or upgrade existing sites. SharePoint guru Tom Rizzo offers broad coverage

of the newest version of SharePoint, Microsoft's popular content management solution Addresses how the new version adds enhanced developer support for ASP.NET, Ajax, LINQ, and Silverlight Demonstrates how to take advantage of new features, including improvements to offline and mobile client capabilities, social networking additions, and more Covers user experience development, platform services, social media features, event handling, the business data catalog, forms and workflow, business intelligence, and more With this book, you'll get exhaustive coverage on the many possibilities that exist with SharePoint.

Adaptive Code via C# - Gary McLean Hall
2014-10-10

Agile coding with design patterns and SOLID principles As every developer knows, requirements are subject to change. But when you build adaptability into your code, you can respond to change more easily and avoid disruptive rework. Focusing on Agile

programming, this book describes the best practices, principles, and patterns that enable you to create flexible, adaptive code--and deliver better business value. Expert guidance to bridge the gap between theory and practice Get grounded in Scrum: artifacts, roles, metrics, phases Organize and manage architectural dependencies Review best practices for patterns and anti-patterns Master SOLID principles: single-responsibility, open/closed, Liskov substitution Manage the versatility of interfaces for adaptive code Perform unit testing and refactoring in tandem See how delegation and abstraction impact code adaptability Learn best ways to implement dependency interjection Apply what you learn to a pragmatic, agile coding project Get code samples at:

<http://github.com/garymclean/AdaptiveCode>
[Building a Web 2.0 Portal with ASP.NET 3.5](#) -

Omar AL Zabir 2007-12-21

If you think you're well-versed in ASP.NET, think again. This exceptional guide gives you a master

class in site building with ASP.NET 3.5 and other cutting-edge Microsoft technologies. You learn how to develop rock-solid web portal applications that can withstand millions of hits every day while surviving scalability and security pressures -- not just for mass-consumer homepages, but also for dashboards that deliver powerful content aggregation for enterprises. Written by Omar AL Zabir, co-founder and CTO of Pageflakes, Building a Web 2.0 Portal with ASP.NET 3.5 demonstrates how to develop portals similar to My Yahoo!, iGoogle, and Pageflakes using ASP.NET 3.5, ASP.NET AJAX, Windows Workflow Foundation, LINQ and .NET 3.5. Through the course of the book, AL Zabir builds an open source Ajax-enabled portal prototype (available online at www.droptthings.com), and walks you through the design and architectural challenges, advanced Ajax concepts, performance optimization techniques, and server-side scalability problems involved. You learn how to: Implement a highly decoupled architecture following the popular n-

tier, widget-based application model Provide drag-and-drop functionality, and use ASP.NET 3.5 to build the server-side part of the web layer Use LINQ to build the data access layer, and Windows Workflow Foundation to build the business layer as a collection of workflows Build client-side widgets using JavaScript for faster performance and better caching Get maximum performance out of the ASP.NET AJAX Framework for faster, more dynamic, and scalable sites Build a custom web service call handler to overcome shortcomings in ASP.NET AJAX 1.0 for asynchronous, transactional, cache-friendly web services Overcome JavaScript performance problems, and help the user interface load faster and be more responsive Solve scalability and security problems as your site grows from hundreds to millions of users Deploy and run a high-volume production site while solving software, hardware, hosting, and Internet infrastructure problems Building a Web 2.0 Portal with ASP.NET 3.5 also presents real-world

ASP.NET challenges that the author has solved in building educational and enterprise portals, plus thirteen production disasters common to web applications serving millions of users. If you're ready to build state-of-the art, high-volume web applications, this book has exactly what you need.

LiNQ. - 1981

Blockchain Revolution - Don Tapscott 2016-05-10
Blockchain technology is powering our future. As the technology behind cryptocurrencies like bitcoin and Facebook's Libra, open software platforms like Ethereum, and disruptive companies like Ripple, it's too important to ignore. In this revelatory book, Don Tapscott, the bestselling author of *Wikinomics*, and his son, blockchain expert Alex Tapscott, bring us a brilliantly researched, highly readable, and essential book about the technology driving the future of the economy. Blockchain is the ingeniously simple, revolutionary protocol that

allows transactions to be simultaneously anonymous and secure by maintaining a tamperproof public ledger of value. Though it's best known as the technology that drives bitcoin and other digital currencies, it also has the potential to go far beyond currency, to record virtually everything of value to humankind, from birth and death certificates to insurance claims, land titles, and even votes. Blockchain is also essential to understand if you're an artist who wants to make a living off your art, a consumer who wants to know where that hamburger meat really came from, an immigrant who's tired of paying big fees to send money home to your loved ones, or an entrepreneur looking for a new platform to build a business. And those examples are barely the tip of the iceberg. As with major paradigm shifts that preceded it, blockchain technology will create winners and losers. This book shines a light on where it can lead us in the next decade and beyond.

Leveraging the Wisdom of the Crowd in Software

Testing - Mukesh Sharma 2014-09-19
Its scale, flexibility, cost effectiveness, and fast turnaround are just a few reasons why crowdsourced testing has received so much attention lately. While there are a few online resources that explain what crowdsourced testing is all about, there's been a need for a book that covers best practices, case studies, and the future of this technique.F

Masterminds of Programming - Federico Biancuzzi 2009-03-21

Masterminds of Programming features exclusive interviews with the creators of several historic and highly influential programming languages. In this unique collection, you'll learn about the processes that led to specific design decisions, including the goals they had in mind, the trade-offs they had to make, and how their experiences have left an impact on programming today. Masterminds of Programming includes individual interviews with: Adin D. Falkoff: APL Thomas E. Kurtz: BASIC Charles H. Moore: FORTH Robin

Milner: ML Donald D. Chamberlin: SQL Alfred Aho, Peter Weinberger, and Brian Kernighan: AWK Charles Geschke and John Warnock: PostScript Bjarne Stroustrup: C++ Bertrand Meyer: Eiffel Brad Cox and Tom Love: Objective-C Larry Wall: Perl Simon Peyton Jones, Paul Hudak, Philip Wadler, and John Hughes: Haskell Guido van Rossum: Python Luiz Henrique de Figueiredo and Roberto Ierusalimsky: Lua James Gosling: Java Grady Booch, Ivar Jacobson, and James Rumbaugh: UML Anders Hejlsberg: Delphi inventor and lead developer of C# If you're interested in the people whose vision and hard work helped shape the computer industry, you'll find Masterminds of Programming fascinating.

Programming F# 3.0 - Chris Smith 2012-10-09
Why learn F#? With this guide, you'll learn how this multi-paradigm language not only offers you an enormous productivity boost through functional programming, but also lets you develop applications using your existing object-oriented and imperative programming skills.

You'll quickly discover the many advantages of the language, including access to all the great tools and libraries of the .NET platform. Reap the benefits of functional programming for your next project, whether you're writing concurrent code, or building data- or math-intensive applications. With this comprehensive book, former F# team member Chris Smith gives you a head start on the fundamentals and walks you through advanced concepts of the F# language. Learn F#'s unique characteristics for building applications Gain a solid understanding of F#'s core syntax, including object-oriented and imperative styles Make your object-oriented code better by applying functional programming patterns Use advanced functional techniques, such as tail-recursion and computation expressions Take advantage of multi-core processors with asynchronous workflows and parallel programming Use new type providers for interacting with web services and information-rich environments Learn how well F# works as a

scripting language

Microsoft Visual C# Step by Step - John Sharp
2015-10-28

Your hands-on guide to Microsoft Visual C# fundamentals with Visual Studio 2015 Expand your expertise--and teach yourself the fundamentals of programming with the latest version of Visual C# with Visual Studio 2015. If you are an experienced software developer, you'll get all the guidance, exercises, and code you need to start building responsive, scalable Windows 10 and Universal Windows Platform applications with Visual C#. Discover how to: Quickly start creating Visual C# code and projects with Visual Studio 2015 Work with variables, operators, expressions, and methods Control program flow with decision and iteration statements Build more robust apps with error, exception, and resource management Master the essentials of Visual C# object-oriented programming Use enumerations, structures, generics, collections, indexers, and other

advanced features Create in-memory data queries with LINQ query expressions Improve application throughput and response time with asynchronous methods Decouple application logic and event handling Streamline development with new app templates Implement the Model-View-ViewModel (MVVM) pattern Build Universal Windows Platform apps that smoothly adapt to PCs, tablets, and Windows phones Integrate Microsoft Azure cloud databases and RESTful web services About You For software developers who are new to Visual C# or who are upgrading from older versions Readers should have experience with at least one programming language No prior Microsoft .NET or Visual Studio development experience required

[Complete Guide to Test Automation](#) - Arnon Axelrod 2018-09-22

Rely on this robust and thorough guide to build and maintain successful test automation. As the software industry shifts from traditional waterfall paradigms into more agile ones, test automation

becomes a highly important tool that allows your development teams to deliver software at an ever-increasing pace without compromising quality. Even though it may seem trivial to automate the repetitive tester's work, using test automation efficiently and properly is not trivial. Many test automation endeavors end up in the "graveyard" of software projects. There are many things that affect the value of test automation, and also its costs. This book aims to cover all of these aspects in great detail so you can make decisions to create the best test automation solution that will not only help your test automation project to succeed, but also allow the entire software project to thrive. One of the most important details that affects the success of the test automation is how easy it is to maintain the automated tests. Complete Guide to Test Automation provides a detailed hands-on guide for writing highly maintainable test code. What You'll Learn Know the real value to be expected from test automation Discover the key traits that

will make your test automation project succeed
Be aware of the different considerations to take into account when planning automated tests vs. manual tests
Determine who should implement the tests and the implications of this decision
Architect the test project and fit it to the architecture of the tested application
Design and implement highly reliable automated tests
Begin gaining value from test automation earlier
Integrate test automation into the business processes of the development team
Leverage test automation to improve your organization's performance and quality, even without formal authority
Understand how different types of automated tests will fit into your testing strategy, including unit testing, load and performance testing, visual testing, and more
Who This Book Is For
Those involved with software development such as test automation leads, QA managers, test automation developers, and development managers. Some parts of the book assume hands-on experience in writing code in an object-

oriented language (mainly C# or Java), although most of the content is also relevant for nonprogrammers.

Inside Microsoft Dynamics AX 2012 R3 - Microsoft Dynamics AX Team 2014

Explores the architecture, components, and tools of Microsoft Dynamics AX 2012 R3, including forms, security, SharePoint integration, workflow infrastructure, reporting, automating tasks and document distribution, and application domain frameworks.

Microsoft Visual Studio 2015 Unleashed - Lars Powers 2015-08-07

Microsoft Visual Studio 2015 empowers you to write next-generation applications for any modern environment: mobile, web, cloud, universal Windows 10/8.x, database, and beyond. This end-to-end deep dive will help working developers squeeze maximum productivity out of Microsoft's powerful new toolset. The authors combine authoritative and detailed information about Microsoft's latest IDE, with extensive

insights and best practices drawn from decades of development experience. Developers will quickly get comfortable with Visual Studio 2015's updated interface, master its new capabilities, leverage its extensive new support for open standards, and discover multiple opportunities to leverage its .NET 4.6 platform and language improvements. By focusing entirely on Visual Studio 2015 Professional, the authors go deeper into Microsoft's core product than ever before. You'll find expert coverage of everything from debugging through deploying to Azure, IDE extension and automation through cross-platform mobile development. Throughout, this book's focus is relentlessly practical: how to apply Microsoft's tools to build better software, faster. Detailed information on how to... Master Visual Studio 2015's updated interface and key tools: Solutions, Projects, Browsers, Explorers, Editors, and Designers to improve productivity Develop robust cross-platform mobile apps for Windows, iOS, and Android using Apache Cordova

templates for Visual Studio Use the new ASP.NET 5 to build modern web solutions that run on Windows, Mac, or Linux Develop Single Page Applications (SPAs) based on HTML5 and rich client-side JavaScript frameworks such as Knockout, AngularJS, Bootstrap, and more Accelerate cloud development with the Azure SDK, QuickStart templates, and Azure management portal Create mobile service solutions using ASP.NET Web API and WCF Streamline data development across multiple platforms with Entity Framework 7 Develop modern Microsoft Office business applications Perform robust, automated unit testing as you code, increasing your confidence in changes and refactoring Extend the VS 2015 IDE and Code Editor by creating custom, productivity-enhancing solutions Download all examples and source code presented in this book from informit.com/title/9780672337369 as they become available.

Hands-On Parallel Programming with C# 8 and

.NET Core 3 - Shakti Tanwar 2019-12-20
Enhance your enterprise application development skills by mastering parallel programming techniques in .NET and C# Key Features Write efficient, fine-grained, and scalable parallel code with C# and .NET Core Experience how parallel programming works by building a powerful application Learn the fundamentals of multithreading by working with IIS and Kestrel Book Description In today's world, every CPU has a multi-core processor. However, unless your application has implemented parallel programming, it will fail to utilize the hardware's full processing capacity. This book will show you how to write modern software on the optimized and high-performing .NET Core 3 framework using C# 8. Hands-On Parallel Programming with C# 8 and .NET Core 3 covers how to build multithreaded, concurrent, and optimized applications that harness the power of multi-core processors. Once you've understood the fundamentals of threading and concurrency,

you'll gain insights into the data structure in .NET Core that supports parallelism. The book will then help you perform asynchronous programming in C# and diagnose and debug parallel code effectively. You'll also get to grips with the new Kestrel server and understand the difference between the IIS and Kestrel operating models. Finally, you'll learn best practices such as test-driven development, and run unit tests on your parallel code. By the end of the book, you'll have developed a deep understanding of the core concepts of concurrency and asynchrony to create responsive applications that are not CPU-intensive. What you will learn Analyze and break down a problem statement for parallelism Explore the APM and EAP patterns and how to move legacy code to Task Apply reduction techniques to get aggregated results Create PLINQ queries and study the factors that impact their performance Solve concurrency problems caused by producer-consumer race conditions Discover the synchronization primitives available in .NET

CoreUnderstand how the threading model works with IIS and KestrelFind out how you can make the most of server resourcesWho this book is for If you want to learn how task parallelism is used to build robust and scalable enterprise architecture, this book is for you. Whether you are a beginner to parallelism in C# or an experienced architect, you'll find this book useful to gain insights into the different threading models supported in .NET Standard and .NET Core. Prior knowledge of C# is required to understand the concepts covered in this book.

[Beginning JQuery 2 for ASP.NET Developers](#) - Bipin Joshi 2013-12-07

jQuery is the most popular JavaScript library in use today, appearing on nearly two thirds of the 10,000 most visited sites on the web. With this sort of popularity, it's clear that ASP.NET developers can't afford to miss out. By combining jQuery with ASP.NET you get the best of both worlds: the client-side interactivity and responsiveness of JavaScript with the robustness

and extensibility of Microsoft's web stack. Beginning jQuery 2 for ASP.NET Developers shows you how. To begin with, you'll find out how jQuery hooks up with your ASP.NET controls, and simplifies event handling by keeping it in the browser. Then you'll learn to handle dynamic content and responsive layouts by interacting with the DOM. Effects and animations are one of the most popular uses of the jQuery library, so we cover that next—showing you how to get a sleek modern look and feel to your site using some of the vast library of JavaScript that's already out there waiting to be used. Ajax is one of the areas where jQuery really shines, so you'll find out how to make Ajax calls to a web service and get data onto a page without waiting for slow ASP.NET postbacks every time. And no book on jQuery would be complete without jQuery Mobile: the popular mobile web framework that gets you writing sites that work across all the major mobile platforms. What you'll learnSelect DOM elements using powerful jQuery selectorsUse

jQuery with ASP.NET server controls, ASP.NET MVC form fields and other DOM elements Manipulate and traverse the DOM tree and add jQuery effects to ASP.NET web pages Make Ajax calls and pass JSON data to Web Services, Web Methods, WCF services, controller action methods, HTTP handlers and Web APIs Understand code reuse by creating and using jQuery plugins Get introduced to jQuery UI and jQuery mobile and use them in ASP.NET Web Forms and MVC applications Who this book is for This book is for novice to intermediate developers who want to improve and enhance their ASP.NET Web Forms and ASP.NET MVC projects with client-side scripting. Table of Contents Chapter 1. The JavaScript You Need to Know Chapter 2. A First Look at jQuery Chapter 3. ASP.NET Controls and jQuery Selectors Chapter 4. How jQuery Simplifies Event Handling Chapter 5. The DOM and Dynamic Content Chapter 6. More DOM and Useful jQuery Methods Chapter 7. Great-looking ASP.NET Pages with jQuery Effects

and Animations Chapter 8. Making Ajax Calls to .NET Web Services Chapter 9. Creating and Using jQuery Plug-ins Chapter 10. jQuery UI and jQuery Mobile Chapter 11. Useful jQuery and ASP.NET Recipes Appendix: Learning Resources *Pro LINQ* - Joseph Rattz 2010-12-28 LINQ is the part of the .NET Framework that provides a generic approach to querying data from different data sources. It has quickly become the next must-have skill for .NET developers. *Pro LINQ: Language Integrated Query in C# 2010* is all about code. Literally, this book starts with code and ends with code. Most books show the simplest examples of how to use a method, but they so rarely show how to use the more complex prototypes. This book is different. Demonstrating the overwhelming majority of LINQ operators and prototypes, it is a veritable treasury of LINQ examples. Rather than obscure the relevant LINQ principles in code examples by focusing on a demonstration application you have no interest in writing, this book cuts right to

the chase of each LINQ operator, method, or class. However, where complexity is necessary to truly demonstrate an issue, the examples are right there in the thick of it. For example, code samples demonstrating how to handle concurrency conflicts actually create concurrency conflicts so you can step through the code and see them unfold. Face it, most technical books, while informative, are dull. LINQ need not be dull. Written with a sense of humor, this book will attempt to entertain you on your journey through the wonderland of LINQ and C# 2010.

LINQ Unleashed - Paul Kimmel 2008-08-19
Foreword by Darryl Hogan, Architect Evangelist, Microsoft Corporation
Microsoft's highly anticipated LINQ query technology makes it easy to retrieve any information programmatically from any data source, no matter where it comes from or how it's stored. Using LINQ, developers can query objects, relational databases, XML documents, and ADO.NET datasets--and do it all directly from C# 3.0, leveraging the powerful

capabilities of LINQ. This is a definitive guide to getting real-world results with LINQ, using C# 3.0 and Visual Studio 2008. In LINQ Unleashed, Microsoft MVP Paul Kimmel covers every facet of LINQ programming, showing how LINQ can help you dramatically improve your productivity and build more reliable, maintainable applications. Kimmel begins by reviewing the state-of-the-art C# programming techniques LINQ uses, including anonymous types, partial methods, and Lambda expressions. Next, using realistic examples and easy-to-adapt sample code, he details the most powerful new LINQ techniques for accessing objects, databases, and XML. You'll gain a deep and practical understanding of how LINQ works "under the hood"--and learn how to do everything from selecting data through integrating XML with other data models. Build efficient LINQ queries to .NET objects, SQL databases, and XML content Utilize anonymous types to reduce design time, coding effort, and debugging time Automatically generate .NET

state machines with the new yield return construct Master LINQ query syntax, operators, extension methods, sorting, grouping, aggregate and set operations, and more Make the most of select--and use it in the business layer of your n-tier applications Query relational data stored in Microsoft SQL Server Use nullable types to eliminate unnecessary database access plumbing code Use LINQ with ADO.NET 3.0 and Microsoft's powerful new Entity Framework Extract XML data without the hassles or complexity of XPath Automatically construct XML from CSV files and other non-XML data Query Active Directory by extending LINQ

Functional JavaScript - Michael Fogus 2013-06-01

How can you overcome JavaScript language oddities and unsafe features? With this book, you'll learn how to create code that's beautiful, safe, and simple to understand and test by using JavaScript's functional programming support. Author Michael Fogus shows you how to apply functional-style concepts with Underscore.js, a

JavaScript library that facilitates functional programming techniques. Sample code is available on GitHub at <https://github.com/funjs/book-source>. Fogus helps you think in a functional way to help you minimize complexity in the programs you build. If you're a JavaScript programmer hoping to learn functional programming techniques, or a functional programmer looking to learn JavaScript, this book is the ideal introduction. Use applicative programming techniques with first-class functions Understand how and why you might leverage variable scoping and closures Delve into higher-order functions—and learn how they take other functions as arguments for maximum advantage Explore ways to compose new functions from existing functions Get around JavaScript's limitations for using recursive functions Reduce, hide, or eliminate the footprint of state change in your programs Practice flow-based programming with chains and functional pipelines Discover how to code without using

classes

Professional Refactoring in Visual Basic -

Danijel Arsenovski 2008-03-31

In this one-of-a-kind book, Microsoft MVP Danijel Arsenovski shows you how to utilize the power of refactoring to improve the design of your existing code and become more efficient and productive.

You'll discover how to perform unit testing, refactoring to patterns, and refactoring to upgrade legacy Visual Basic code. As you progress through the chapters, you'll build a prototype application from scratch as Arsenovski walks you step-by-step through each process while offering expert coding tips.