Thinking in LINQ

Harnessing the power of functional programing in .NET applications

A PRACTICAL GUIDE TO APPLYING FUNCTIONAL PROGRAMMING TECHNIQUES TO WRITE MORE EFFICIENT QUERIES IN LINQ

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

William E. Clark

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

  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   *Functional Programming in C#, Second Edition* Enrico Buonanno,2022-02-08 Real world examples and practical techniques for functional programming in C without the jargon and theory In Functional Programming in C Second Edition you will learn how to Use higher order functions to reduce duplication and do more with less code Use pure functions to write code that is easy to test and optimize Write pleasant APIs that accurately describe your program s behavior Use dedicated types to handle nullability system errors and validation rules predictably and elegantly Write composable code without the overhead of an IoC container Functional Programming in C has helped thousands of developers apply functional thinking to C code Its practical examples and spot on treatment of FP concepts makes it the perfect guide for proficient C programmers This second edition is fully revised to cover new functional inspired features in the most recent releases of C including tuples async streams pattern matching and records Each chapter is packed with awesome perspectives and epiphany moments on how functional programming can change the way you code Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Turbocharge your C code Good functional techniques will improve concurrency state management event handling and maintainability of your software This book gives you practical answers to why how and where to add functional programing into your C coding practice About the book Functional Programming in C Second Edition teaches functional thinking for real world problems It reviews the C language features that allow you to program functionally and through many practical examples shows the power of function composition data driven programming and immutable data structures All code examples work with NET 6 and C 10 What s inside Higher order functions reduce duplication and do more with less code Code based on pure functions is easy to test and optimize Write pleasant APIs that accurately describe your program s behavior Write a Web API in a functional style Monadic composition with LINQ About the reader For intermediate C programmers About the author Enrico Buonanno studied Computer Science at Columbia University and has over 15 years of experience as a developer architect and trainer Table of Contents PART 1

GETTING STARTED 1 Introducing functional programming 2 Thinking in functions 3 Why function purity matters PART 2 CORE TECHNIQUES 4 Designing function signatures and types 5 Modeling the possible absence of data 6 Patterns in functional programming 7 Designing programs with function composition PART 3 FUNCTIONAL DESIGNS 8 Functional error handling 9 Structuring an application with functions 10 Working effectively with multi argument functions 11 Representing state and change 12 A short introduction to functional data structures 13 Event sourcing A functional approach to persistence PART 4 ADVANCED TECHNIQUES 14 Lazy computations continuations and the beauty of monadic composition 15 Stateful programs and stateful computations 16 Working with asynchronous computations 17 Traversable and stacked monads 18 Data streams and the Reactive Extensions 19 An introduction to message passing concurrency **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 *Functional Programming in C#* Enrico Buonanno,2017-08-12 Summary Functional Programming in C teaches you to apply functional thinking to real world problems using the C language The book with its many practical examples is written for proficient C programmers with no prior FP experience It will give you an awesome new perspective Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Functional programming changes the way you think about code For C developers FP techniques can greatly improve state management concurrency event handling and long term code maintenance And C offers the flexibility that allows you to benefit fully from the application of functional techniques This book gives you the awesome power of a new perspective About the Book Functional Programming in C teaches you to apply functional thinking to real world problems using the C language You ll start by learning the principles of functional programming and the language features that allow you to program functionally As you explore the many practical examples you ll learn the power of function composition data

flow programming immutable data structures and monadic composition with LINQ What s Inside Write readable team friendly code Master async and data streams Radically improve error handling Event sourcing and other FP patterns About the Reader Written for proficient C programmers with no prior FP experience About the Author Enrico Buonanno studied computer science at Columbia University and has 15 years of experience as a developer architect and trainer Table of Contents PART 1 CORE CONCEPTS Introducing functional programming Why function purity matters Designing function signatures and types Patterns in functional programming Designing programs with function composition PART 2 BECOMING FUNCTIONAL Functional error handling Structuring an application with functions Working effectively with multi argument functions Thinking about data functionally Event sourcing a functional approach to persistence PART 3 ADVANCED TECHNIQUES Lazy computations continuations and the beauty of monadic composition Stateful programs and stateful computations Working with asynchronous computations Data streams and the Reactive Extensions An introduction to message passing concurrency   F# in Action Isaac Abraham,2024-05-21 F is designed to make functional programming practical and accessible especially for developers working on the NET platform This book will get you started In F in Action you will learn how to Write performant and robust systems with succinct F code Model domains quickly easily and accurately with F s type system Design solutions using functional programming patterns Ingest and process disparate data sources Develop data driven web applications Unit test F code Effectively model data using a variety of techniques Use scripts to rapidly explore domains About the technology F is a simple robust and highly performant programming language It lets you keep your code simple in even the most complex applications and its language core is perfect for learning the fundamentals of functional programming F runs on NET so you can work cross platform and take advantage of battle tested NET components It s succinct and flexible perfect for everything from command line tools to web apps to data analysis and machine learning   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   *Functional Programming in C#* Oliver Sturm,2011-03-21 Take advantage of the growing trend in functional programming C is the number one language used by NET developers and one of the most popular programming languages in the world It has many built in functional programming features but most are complex and little understood With the shift to functional programming increasing at a rapid pace you need to know how to leverage your existing skills to take advantage of this trend Functional Programming in C leads you along a path that begins with the historic value of functional ideas Inside C MVP and functional programming expert Oliver Sturm explains the details of relevant language features in C and describes theory and practice of using functional techniques in C including currying partial application composition memoization and monads Next he provides practical and versatile examples which combine approaches to solve problems in several different areas including complex scenarios like concurrency and high performance calculation frameworks as well as simpler use cases like Web Services and business logic implementation Shows how C developers can leverage their existing skills to take advantage of functional programming Uses very little math theory and instead focuses on providing solutions to real development problems with functional programming methods unlike traditional functional programming titles Includes examples ranging from simple cases to more complex scenarios Let Functional Programming in C show you how to get in front of the shift toward functional programming   *Expert F#* Antonio Cisternino,Adam Granicz,Don Syme,2008-02-06 Expert F is about practical programming in a beautiful language that puts the power and elegance of functional programming into the hands of NET developers In combination with NET F achieves unrivaled levels of programmer productivity and program clarity This books serves as The authoritative guide to F by the designer of F A comprehensive reference of F concepts syntax and features A treasury of expert F techniques for practical real world programming While inspired by OCaml F isn t just another functional programming language Drawing on many of the strengths of both OCaml and NET it s a general purpose language ideal for real world development F integrates functional imperative and object oriented programming styles so you can flexibly and elegantly solve programming problems and brings NET development alive with interactive execution Whatever your background you ll find that F is easy to learn fun to use and extraordinarily powerful F will help change the way you think about and go about programming Written by F s designer and two active contributors Expert F is the authoritative comprehensive and in depth guide to the language and its use Designed to help others become experts the book gives a thorough introduction to the F language from quick essentials to in depth advanced topics such as active pattern matching aggregate data types and operators sequence expressions lazy values mutable data and side effects generics type augmentations functional decomposition and code organization The second half of the book is devoted to examining the practical application of F providing elegant solutions to common programming tasks including user interface implementation data access web and distributed programming symbolic and numerical computations concurrent programming testing profiling andinteroperability with other languages The latest hot developments in F and NET are also

addressed including Active Patterns implicit class construction integration with LINQ over relational data meta programming and useful tips for working with Visual Studio and F command line tools The worlds foremost experts in F show you how to program in F the way they do   **Real-World Functional Programming** Tomas Petricek,Jonathan Skeet,2009-11-30 Functional programming languages like F Erlang and Scala are attractingattention as an efficient way to handle the new requirements for programmingmulti processor and high availability applications Microsoft s new F is a truefunctional language and C uses functional language features for LINQ andother recent advances Real World Functional Programming is a unique tutorial that explores thefunctional programming model through the F and C languages The clearlypresented ideas and examples teach readers how functional programming differsfrom other approaches It explains how ideas look in F a functionallanguage as well as how they can be successfully used to solve programmingproblems in C Readers build on what they know about NET and learn wherea functional approach makes the most sense and how to apply it effectively inthose cases The reader should have a good working knowledge of C No prior exposure toF or functional programming is required 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   **Introducing Functional Programming Using C#** Vaskaran Sarcar,2023-09-22 Understand the power of C a multi paradigm language This book will help you learn analyze and harness the functional aspects of C so you can create a better program The book is divided into two parts Part I starts with an overview of functional programming FP It covers the building blocks for FP functions and immutability You will learn about the built in supports for FP first and higher order functions HOF functional purity and side effects different forms of immutability and much more Part II includes discussions on functional composition using pipelining and currying It also explains how to handle temporal coupling and discusses partial functions and useful functional patterns such as Map Bind Filter and Fold Author Vaskaran Sarcar takes you through functional exception handling mechanisms and provides additional tips to make your programs more efficient After reading the book you will understand and be able to implement key aspects of FP You will be able to produce better code and refactor existing code by combining the best techniques from both FP and object oriented programming OOP paradigms What Will You Learn Understand how the concepts of functional programming FP can be implemented using C Refactor existing code following the FP paradigm to make it more readable maintainable and predictive Know how advanced features such as delegates lambdas generics can be used differently Understand how to efficiently use features such as lambda expressions and type inference as C includes explicit language extensions to support functional programming Who This Book Is For C developers familiar with object oriented programming OOP who want to harness the power of functional programming FP

   Functional C# Wisnu Anggoro,2016-12-30 Uncover the secrets of functional programming using C and change the way you approach your applications forever About This Book This book focuses on the functional paradigm of C which will give you a whole new angle on coding with C It illustrates the advantages that functional programming brings to the table and the

associated coding benefits This practical guide covers all the aspects of functional programming and provides solutions that can be applied in business scenarios Who This Book Is For This book is suitable for C developers with basic prior knowledge of C and with no functional programming experience at all What You Will Learn Develop an application using the functional approach Implement unit testing to functionally program code Create efficient code using functional programming Work through a LINQ query so you can work with data Compose asynchronous programs to create a responsive application Use recursion in function programming in order to simplify code Optimize the program code using Laziness and Caching Techniques In Detail Functional programming makes your application faster improves performance and increases your productivity C code is written at a higher level of abstraction so that code will be closer to business requirements abstracting away many low level implementation details This book bridges the language gap for C developers by showing you how to create and consume functional constructs in C We also bridge the domain gap by showing how functional constructs can be applied in business scenarios We ll take you through lambda expressions and extension methods and help you develop a deep understanding of the concepts and practices of LINQ and recursion in C By the end of the book you will be able to write code using the best approach and will be able to perform unit testing in functional programming changing how you write your applications and revolutionizing your projects Style and approach This book takes a pragmatic approach and shows you techniques to write better functional constructs in C We ll also show you how these concepts can be applied in business scenarios **Real-World Functional Programming with Examples in F♯ and C#** Tomas Petricek,Jon Skeet,2009 Functional programming languages like F Erlang and Scala are attracting attention as an efficient way to handle the new requirements for programming multi processor and high availability applications Microsoft s new F is a true functional language and C uses functional language features for LINQ and other recent advances Real World Functional Programming is a unique tutorial that explores the functional programming model through the F and C languages The clearly presented ideas and examples teach readers how functional programming differs from other approaches It explains how ideas look in F a functional language as well as how they can be successfully used to solve programming problems in C Readers build on what they know about NET and learn where a functional approach makes the most sense and how to apply it effectively in those cases The reader should have a good working knowledge of C No prior exposure to F or functional programming is required **Functional Programming with C#** Simon J. Painter,2023-09-12 After decades of relative obscurity functional programming is finally coming into its own With concise easy to read code that supports asynchronous concurrent processing aspects of functional programming have begun to appear in several traditionally object oriented languages such as C and Java This practical book shows C programmers how to use functional programming features without having to navigate an entirely new language Because of the shared runtime environment common to C and F languages it s possible to use most of F s functional features in C as well Author Simon J Painter explains how you can write functional code in C right away

without having to install dependencies or features newer than NET 3 You ll learn why functional programming concepts can bring immediate benefit to your work Learn what functional programming is and how it originated Discover features of the functional paradigm using a more familiar language Start coding functionally in C right away without relying on third party libraries Write code that s more robust less error prone and easier to test Examine less conventional ways to look at structures available in C Explore the practicalities of using functional C in a business environment **Functional Programming with C#** Alex Yagur,2024-07-31 Explore functional programming in C with the help of clear explanations practical examples and hands on exercises and write efficient modular and readable code Key Features Master functional programming in C for expressive modular code Apply advanced concepts such as error handling and asynchronous programming to overcome real world challenges Gain practical coding skills through practical application and self assessment questions Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn an era where software complexity is increasing by the day functional programming offers a paradigm that simplifies code maintenance and enhances reliability Functional Programming with C takes you on an exhaustive journey into functional programming within C The book familiarizes you with the core principles and benefits of functional programming juxtaposing it with imperative and object oriented paradigms You ll get to grips with the functional features of C and learn to write expressive modular code through expressions pure functions and higher order functions As you advance you ll explore advanced concepts such as error handling and asynchronous programming which will equip you with the practical skills that you need to tackle real world challenges By comparing functional programming in C with other languages and providing additional resources this book ensures that you re well equipped to continue your journey toward mastery in functional programming By the end of this book you ll have gained a thorough understanding of functional programming techniques such as recursion memoization and composition empowering you to write robust maintainable code What you will learn Understand the core principles of functional programming Differentiate functional imperative and OOP paradigms Write expressive code with higher order functions Handle errors effectively using functional techniques Utilize asynchronous programming for concurrent tasks Grasp advanced concepts such as recursion and memoization Who this book is for This book is for intermediate to advanced C developers looking to expand their programming paradigm horizons Software engineers developers and programmers familiar with C and object oriented programming who want to delve deeper into functional programming concepts will find this book very useful This book is ideal for professionals aiming to enhance code modularity readability and scalability While prior knowledge of C is necessary beginners with a strong grasp of programming fundamentals can also benefit from the clear explanations and practical exercises provided *F# in Action* Kunigunde Adalwolf,2025-11-05 F in Action is your practical hands on guide to thinking and coding functionally written specifically for experienced NET developers This book bridges the gap between your existing object oriented knowledge and the functional first paradigm showing you how to build

more robust concise and maintainable applications without leaving the NET ecosystem you know and love You ll move quickly from theory to practice discovering how F s immutability by default powerful type system and pattern matching can eliminate entire categories of common bugs Learn to write cleaner more expressive code for complex business logic data processing and concurrent systems Inside you will learn to Think Functionally Shift your mindset from imperative C to the declarative style of F Write Safer Code Leverage F s advanced type system like discriminated unions and options to make invalid states unrepresentable Integrate Seamlessly Call F code from C and vice versa allowing you to introduce F into your existing NET projects incrementally Tackle Concurrency Write simpler safer asynchronous and parallel code that avoids the pitfalls of shared mutable state Model Complex Domains Use Type Driven Development to build systems that are correct by construction This book is your key to unlocking a more powerful and productive way to build software on NET Grab your copy and put F into action today **Professional F# 2.0** Ted Neward,Aaron Erickson,Talbott Crowell,Rick Minerich,2010-10-26 This is a book on the F programming language On the surface of things that is an intuitively obvious statement given the title of this book However despite the apparent redundancy in saying it aloud the sentence above elegantly describes what this book is about The authors are not attempting to teach developers how to accomplish tasks from other languages in this one nor are they attempting to evangelize the language or its feature set or its use over other languages They assume that you are considering this book because you have an interest in learning the F language its syntax its semantics its pros and cons and its use in concert with other parts of the NET ecosystem The intended reader is a NET developer familiar with at least one of the programming languages in the NET ecosystem That language might be C or Visual Basic or perhaps C CLI IronPython or IronRuby **C++ Functional Programming for Starters: A Practical Guide with Examples** William E. Clark,2025-03-31 C Functional Programming for Starters A Practical Guide with Examples offers a detailed and accessible introduction to the fusion of functional programming principles with C Bridging traditional programming methodologies with functional paradigms this book serves as a comprehensive resource for developers aiming to explore and implement functional programming concepts in real world applications It starts by establishing the foundational C concepts essential for functional programming drawing a clear path from basic constructs to more complex functional techniques The book meticulously unpacks the intricacies of functional programming featuring deep dives into topics such as lambdas recursive algorithms and higher order functions Readers will gain a thorough understanding of how to design immutable data structures manage error handling dynamically and build concurrent systems with enhanced efficiency Practical exercises and examples further solidify the learning experience allowing readers to apply theoretical concepts in a hands on manner Intended for both novice and experienced developers C Functional Programming for Starters guides readers through the setup of a functional development environment and imparts best practices for building testing and debugging functional code By the end of this book readers will possess the tools and knowledge to harness the power of

functional programming within C creating scalable maintainable and high performance applications **Get Programming with F#** Isaac Abraham,2018-02-26 Summary Get Programming with F A guide for NET developers teaches F through 43 example based lessons with built in exercises so you can learn the only way that really works by practicing The book upgrades your NET skills with a touch of functional programming in F You ll pick up core FP principles and learn techniques for iron clad reliability and crystal clarity You ll discover productivity techniques for coding F in Visual Studio functional design and integrating functional and OO code Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Your NET applications need to be good for the long haul F s unique blend of functional and imperative programming is perfect for writing code that performs flawlessly now and keeps running as your needs grow and change It takes a little practice to master F s functional first style so you may as well get programming What s Inside Learn how to write bug free programs Turn tedious common tasks into quick and easy ones Use minimal code to work with JSON CSV XML and HTML data Integrate F with your existing C and VB NET applications Create web enabled applications About the Reader Written for intermediate C and Visual Basic NET developers No experience with F is assumed Table of Contents Unit 1 F AND VISUAL STUDIO Lesson 1 The Visual Studio experience Lesson 2 Creating your first F program Lesson 3 The REPL changing how we develop Unit 2 HELLO F Lesson 4 Saying a little doing a lot Lesson 5 Trusting the compiler Lesson 6 Working with immutable data Lesson 7 Expressions and statements Lesson 8 Capstone 1 Unit 3 TYPES AND FUNCTIONS Lesson 9 Shaping data with tuples Lesson 10 Shaping data with records Lesson 11 Building composable functions Lesson 12 Organizing code without classes Lesson 13 Achieving code reuse in F Lesson 14 Capstone 2 Unit 4 COLLECTIONS IN F Lesson 15 Working with collections in F Lesson 16 Useful collection functions Lesson 17 Maps dictionaries and sets Lesson 18 Folding your way to success Lesson 19 Capstone 3 Unit 5 THE PIT OF SUCCESS WITH THE F TYPE SYSTEM Lesson 20 Program flow in F Lesson 21 Modeling relationships in F Lesson 22 Fixing the billion dollar mistake Lesson 23 Business rules as code Lesson 24 Capstone 4 Unit 6 LIVING ON THE NET PLATFORM Lesson 25 Consuming C from F Lesson 26 Working with NuGet packages Lesson 27 Exposing F types and functionsto C Lesson 28 Architecting hybrid language applications Lesson 29 Capstone 5 Unit 7 WORKING WITH DATA Lesson 30 Introducing type providers Lesson 31 Building schemas from live data Lesson 32 Working with SQL Lesson 33 Creating type provider backed APIs Lesson 34 Using type providers in the real world Lesson 35 Capstone 6 Unit 8 WEB PROGRAMMING Lesson 36 Asynchronous workflows Lesson 37 Exposing data over HTTP Lesson 38 Consuming HTTP data Lesson 39 Capstone 7 Unit 9 UNIT TESTING Lesson 40 Unit testing in F Lesson 41 Property based testing in F Lesson 42 Web testing Lesson 43 Capstone 8 Unit 10 WHERE NEXT Appendix A The F community Appendix B F in my organization Appendix C Must visit F resources Appendix D Must have F libraries Appendix E Other F language feature **LINQ Pocket Reference** Joseph Albahari,Ben Albahari,2008-02-26 Ready to take advantage of LINQ with C 3 0 This guide has the detail you need to grasp Microsoft s new

querying technology and concise explanations to help you learn it quickly And once you begin to apply LINQ the book serves as an on the job reference when you need immediate reminders All the examples in the LINQ Pocket Reference are preloaded into LINQPad the highly praised utility that lets you work with LINQ interactively Created by the authors and free to download LINQPad will not only help you learn LINQ it will have you thinking in LINQ This reference explains LINQ s key concepts such as deferred execution iterator chaining and type inference in lambda expressions The differences between local and interpreted queries C 3 0 s query syntax in detail including multiple generators joining grouping query continuations and more Query syntax versus lambda syntax and mixed syntax queries Composition and projection strategies for complex queries All of LINQ s 40 plus query operators How to write efficient LINQ to SQL queries How to build expression trees from scratch All of LINQ to XML s types and their advanced use LINQ promises to be the locus of a thriving ecosystem for many years to come This small book gives you a huge head start The authors built a tool LINQPad that lets you experiment with LINQ interactively in a way that the designers of LINQ themselves don t support and the tool has all kinds of wonderful features that LINQ SQL and Regular Expression programmers alike will want to use regularly long after they ve read the book Chris Sells Connected Systems Program Manager Microsoft **Advanced C#: Functional Programming Patterns** Walt Ritscher,2020 Functional programming offers developers a straightforward way to tackle modern software problems like massive scale distributed systems and multiple threaded runtimes Curious about how to work functional programming patterns into your NET applications In this course Walt Ritscher shows you how Discover how to leverage the functional programming features in C to transform your code Walt covers key topics such as immutability higher order functions and why expressions are better for functional programs Plus learn how to compose function flow in C using pipelining work with functional programming concepts like map filter and bind in LINQ and more

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

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