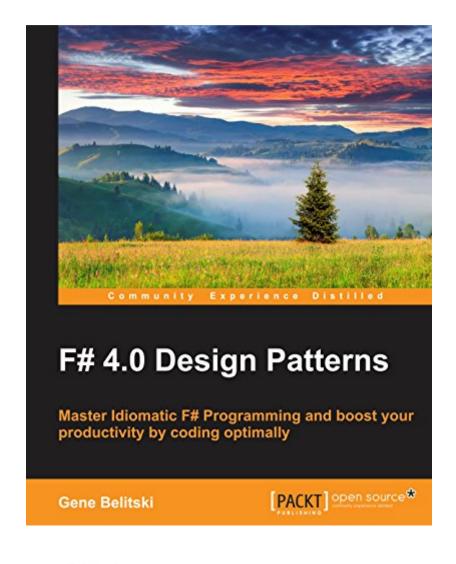
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## F# 4.0 Design Patterns





## Synopsis

Key FeaturesThis book provides a path if you are coming from imperative and object-oriented paradigmsIt will take you to an intermediate level of functional programming in very practical manner to write enterprise-quality idiomatic F# codeTackle complex computing problems by fully embracing the functional-first F# paradigm to generate simple codePacked full of practical coding examples to help you master F# programming and generate optimal codeBook DescriptionDesign patterns is a well-known approach to writing better applications, which captures high-level abstractions that are common in many applications. This book will encourage you to develop an idiomatic F# coding skillset by fully embracing the functional-first F# paradigms. It will also help you harness this powerful tool to write succinct, bug-free, and cross-platform code.F# 4.0 Design Patterns will start off by helping you develop a functional way of thinking. We will show you how beneficial the functional first paradigm is and how to use it to get the optimum results. The book will help you acquire the practical knowledge of the main functional design patterns while avoiding the traditional â œGang of Fourâ • approach. We will take you through pattern matching, immutable data types, and sequences in F#. We will also uncover advanced functional patterns, look at polymorphic functions, data crunching, adjusting code through augmentation, and generalization. Lastly, we take a look at the advanced techniques to equip you with everything you need to write flawless code.What you will learnAcquire the practical knowledge to use the main functional design patternsRealign some imperative and object-oriented principles under the functional approachMake use of the 3 Râ <sup>™</sup>s (retain, recognize, and reuse) in your professional activitiesDevelop your confidence in building and combining first-order and higher-order functionsLearn to use core language pattern matching effectivelyBuild custom abstract data types off embedded onesRecognize and measure the difference in resource consumption between sequences and materialized data structuresMaster writing generic polymorphic codeAbout the AuthorGene Belitski is an accomplished Software Developer with a strong track record, he is known for designing, implementing, and delivering mission critical competitive applications. He has been instrumental in the development of technology supporting the business of collection, analysis, and the distribution of high volumes of temporally complex market data time series. He also has a steadfast engineering mindset, which comes from a solid scientific background. You can find him on Linkedin: https://www.linkedin.com/in/genebelitski, his blog at https://infsharpmajor.wordpress.com/about/, Stackoverflow at http://stackoverflow.com/users/917053/gene-belitski, and is a founding member of: http://fsharp.org/.

## **Book Information**

Print Length: 301 pages Publisher: Packt Publishing (November 4, 2016) Publication Date: November 4, 2016 Sold by:Â Digital Services LLC Language: English ASIN: B01CGKAINU Text-to-Speech: Enabled X-Ray: Not Enabled Word Wise: Not Enabled Lending: Not Enabled Enhanced Typesetting: Not Enabled Best Sellers Rank: #1,125,887 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #729 in Kindle Store > Kindle eBooks > Computers & Technology > Programming > C & C++ #824 in Books > Computers & Technology > Programming > Languages & Tools > C# #824 in Books > Computers & Technology > Databases & Big Data > Data Modeling & Design

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