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# F# 4.0 Design Patterns



## Synopsis

**Key Features** This book provides a path if you are coming from imperative and object-oriented paradigms. It will take you to an intermediate level of functional programming in a very practical manner to write enterprise-quality idiomatic F# code. Tackle complex computing problems by fully embracing the functional-first F# paradigm to generate simple code. Packed full of practical coding examples to help you master F# programming and generate optimal code. **Book Description** Design 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 "Gang of Four" 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 learn** Acquire the practical knowledge to use the main functional design patterns. Realign some imperative and object-oriented principles under the functional approach. Make use of the 3 R<sup>TM</sup>s (retain, recognize, and reuse) in your professional activities. Develop your confidence in building and combining first-order and higher-order functions. Learn to use core language pattern matching effectively. Build custom abstract data types off embedded ones. Recognize and measure the difference in resource consumption between sequences and materialized data structures. Master writing generic polymorphic code. **About the Author** Gene 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/>.

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