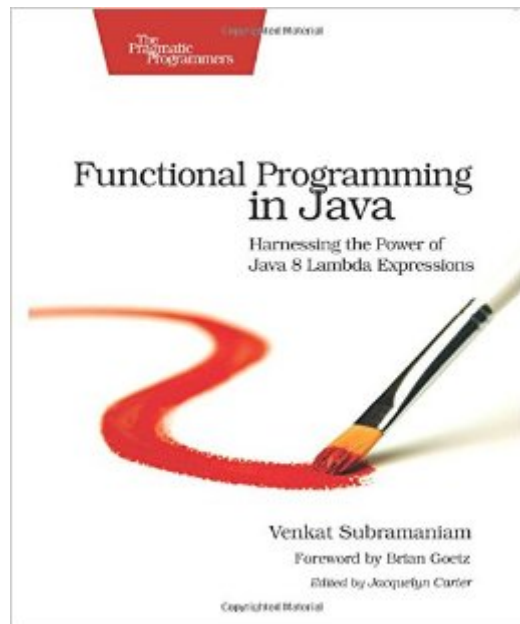


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Functional Programming In Java: Harnessing The Power Of Java 8 Lambda Expressions



Synopsis

Intermediate level, for programmers fairly familiar with Java, but new to the functional style of programming and lambda expressions. Get ready to program in a whole new way. Functional Programming in Java will help you quickly get on top of the new, essential Java 8 language features and the functional style that will change and improve your code. This short, targeted book will help you make the paradigm shift from the old imperative way to a less error-prone, more elegant, and concise coding style that's also a breeze to parallelize. You'll explore the syntax and semantics of lambda expressions, method and constructor references, and functional interfaces. You'll design and write applications better using the new standards in Java 8 and the JDK. Lambda expressions are lightweight, highly concise anonymous methods backed by functional interfaces in Java 8. You can use them to leap forward into a whole new world of programming in Java. With functional programming capabilities, which have been around for decades in other languages, you can now write elegant, concise, less error-prone code using standard Java. This book will guide you through the paradigm change, offer the essential details about the new features, and show you how to transition from your old way of coding to an improved style. In this book you'll see popular design patterns, such as decorator, builder, and strategy, come to life to solve common design problems, but with little ceremony and effort. With these new capabilities in hand, Functional Programming in Java will help you pick up techniques to implement designs that were beyond easy reach in earlier versions of Java. You'll see how you can reap the benefits of tail call optimization, memoization, and effortless parallelization techniques. Java 8 will change the way you write applications. If you're eager to take advantage of the new features in the language, this is the book for you. What you need: Java 8 with support for lambda expressions and the JDK is required to make use of the concepts and the examples in this book.

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Customer Reviews

This is an excellent book for experienced Java developers who want to learn the new functional programming (FP) aspects of Java 8. Highly recommended. Throughout the book, Venkat shows how to implement simple examples that are easy to wrap your head around using the old imperative style of Java, and then rewrites the examples using FP. That approach is very effective and accomplishes two things: 1. Having both imperative and FP implementations of the same examples make it much easier to understand the FP implementations because experienced Java developers can relate FP to the way they're used to writing code. Without the imperative versions, I don't think the FP versions would be nearly as clear to experienced Java developers without a FP background. 2. The differences between the imperative and FP versions of the code are striking. The FP versions are shorter, simpler, and once you are comfortable with the FP constructs, easier to understand. And by avoiding mutable objects, you don't have to deal with trying to get your code to work properly in a multi-threaded environment - something that is nearly impossible with imperative Java. The main difference between imperative and FP is that with the former, you specify how you want to do things, whereas with FP, you specify only what you want to do, leaving the details to FP constructs such as the map() function. Venkat's approach makes that difference abundantly clear. If you're new to Java, then this is probably not the book for you. However, if you've been writing imperative Java code for a while, I can't imagine a better way to learn the functional aspects of Java 8.

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