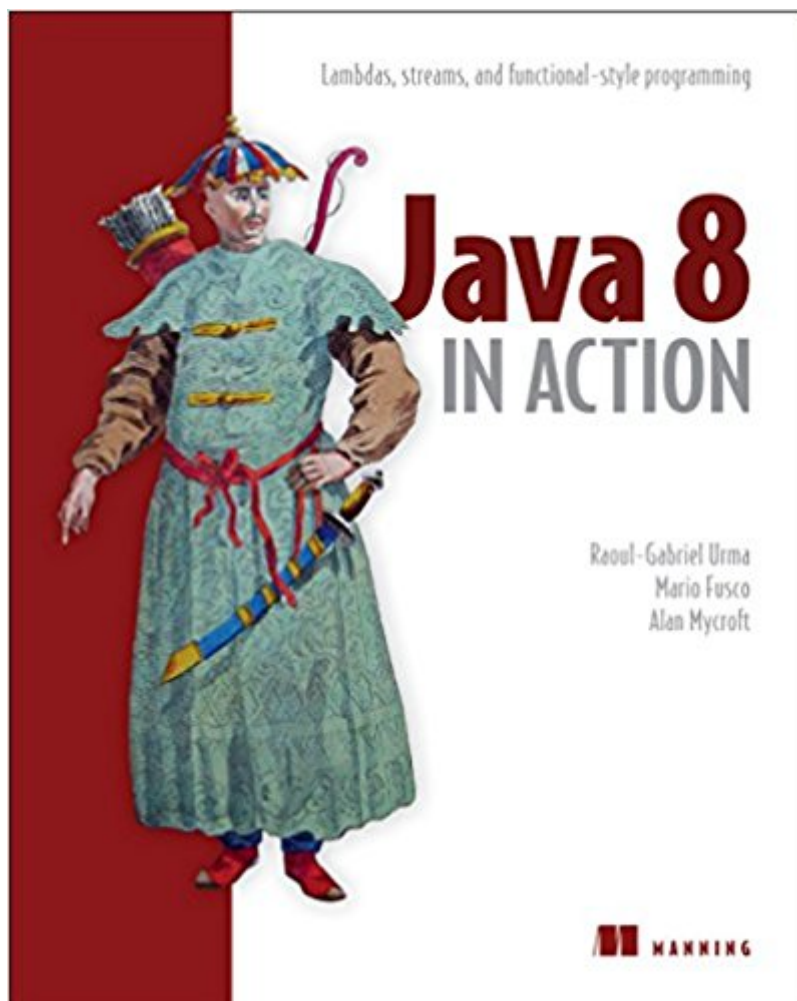The book was found

Java 8 In Action: Lambdas, Streams, And Functional-style Programming

Synopsis

SummaryJava 8 in Action is a clearly written guide to the new features of Java 8. The book covers lambdas, streams, and functional-style programming. With Java 8's functional features you can now write more concise code in less time, and also automatically benefit from multicore architectures. It's time to dig in!Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.About the BookEvery new version of Java is important, but Java 8 is a game changer. Java 8 in Action is a clearly written guide to the new features of Java 8. It begins with a practical introduction to lambdas, using real-world Java code. Next, it covers the new Streams API and shows how you can use it to make collection-based code radically easier to understand and maintain. It also explains other major Java 8 features including default methods, Optional, CompletableFuture, and the new Date and Time API. This book is written for programmers familiar with Java and basic OO programming. What's InsideHow to use Java 8's powerful new featuresWriting effective multicore-ready applicationsRefactoring, testing, and debuggingAdopting functional-style programmingQuizzes and quick-check questionsAbout the AuthorsRaoul-Gabriel Urma is a software engineer, speaker, trainer, and PhD candidate at the University of Cambridge. Mario Fusco is an engineer at Red Hat and creator of the lambdaj library. Alan Mycroft is a professor at Cambridge and cofounder of the Raspberry Pi Foundation.Table of ContentsPART 1 FUNDAMENTALSJava 8: why should you care?Passing code with behavior parameterizationLambda expressionsPART 2 FUNCTIONAL-STYLE DATA PROCESSINGIntroducing streamsWorking with streamsCollecting data with streamsParallel data processing and performancePART 3 EFFECTIVE JAVA 8 PROGRAMMINGRefactoring, testing, and debuggingDefault methods Using Optional as a better alternative to null CompletableFuture: composable asynchronousprogrammingNew Date and Time APIPART 4 BEYOND JAVA 8Thinking functionallyFunctional programming techniquesBlending OOP and FP: comparing Java 8 and Scala Conclusions and where next for JavaAPPENDIXESMiscellaneous language updatesMiscellaneous library updatesPerforming multiple operations in parallelon a streamLambdas and JVM bytecode

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Customer Reviews

Raoul-Gabriel Urma has worked as a software engineer for Oracle's Java Platform Group, Google's Python team, Ebay, and Goldman Sachs as well as for several startup projects. He's currently completing a PhD in Computer Science at the University of Cambridge and is a regular speaker and instructor.Mario Fusco is a senior software engineer at Red Hat working on Drools, the JBoss rule engine. He created the open source library lambdaj, an internal Java DSL for manipulating collections in a functional way.Alan Mycroft is Professor of Computer Science at the University of Cambridge, where he researches programming languages, their semantics, optimization and implementation. He is a co-founder and Trustee of the Raspberry Pi Foundation.

I love this book! I've been using it to help me find good ways to refactor my Java code. It's written in a way that shows you step by step on how to transition from common ways of doing things in Java 7 to the Java 8 streams way. Even though some refactoring that makes code more terse can also make the code super difficult to read, the suggested changes from this book are incredibly easy to understand.I also like that the book has found a great balance of giving good usable information without being too simplistic or convoluted.

Great informative book, I've recommended this to several friends. Coming from .net with many of these features it is not difficult, but it is good to see how java does it, even if it was actually clearer to me in .net I actually learned more of a computer science perspective with this book in terms of the reason for streams and the meaning of terms such as predicate and why the functional interface exists as such. For this CS perspective I give the book five stars.

What makes this book so great is it not only presents the material in a very readable yet thorough way, it also gives a great sense of context for why this material matters, comparing freely against

other competing implementations of similar ideas (eg Guava or Scala). What a find -- I love it when I find a rare programming book like this!So many lesser titles, especially when the topic is about essentially an API, tend to read like a computer-generated API doc. But this title reads more like a friendly professor showing you the key ideas which drove the API design, so that the APIs themselves make sense and therefore become easy to learn.

Lots of useful info on the new features of Lambdas and Streams. There are exercises in each chapter to make sure you are learning the topics.Highly recommended.

An excellent but verbose companion book to the also excellent but terse "Java 8 for the Seriously Impatient", by Cay Horstman.

I have read many programming books as a Java Hobbyist, this has to be one of the best I have read. The authors clear and concise explanation of functional programming concepts are remarkable. If this guys were in my town I would buy all them a beer.

I am almost half way through this book. Overall, this is a solid guide to all the new features of Java 8. Each concept is gently introduced and then discussed in detail. There are plenty of quizzes and practice problems along the way to really reinforce all the different ways you can use the powerful new functionality. Highly recommend this book.

Perfect book and delivered on time

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