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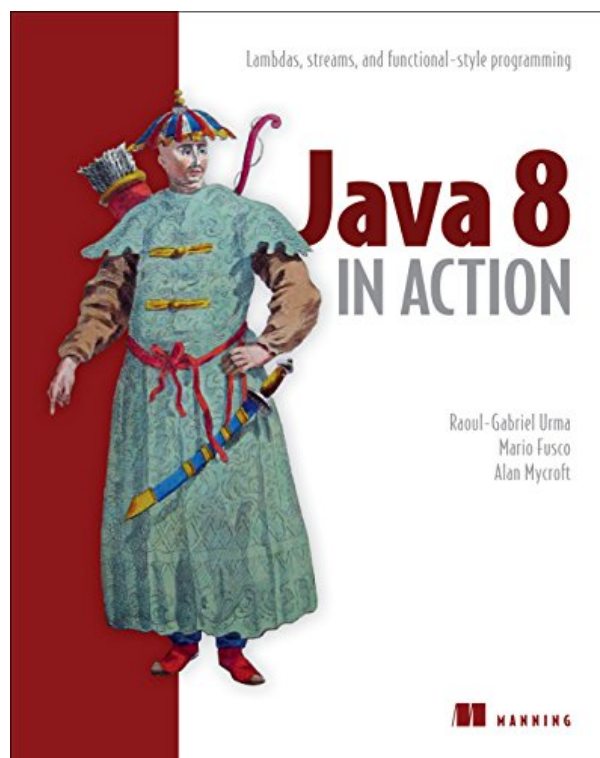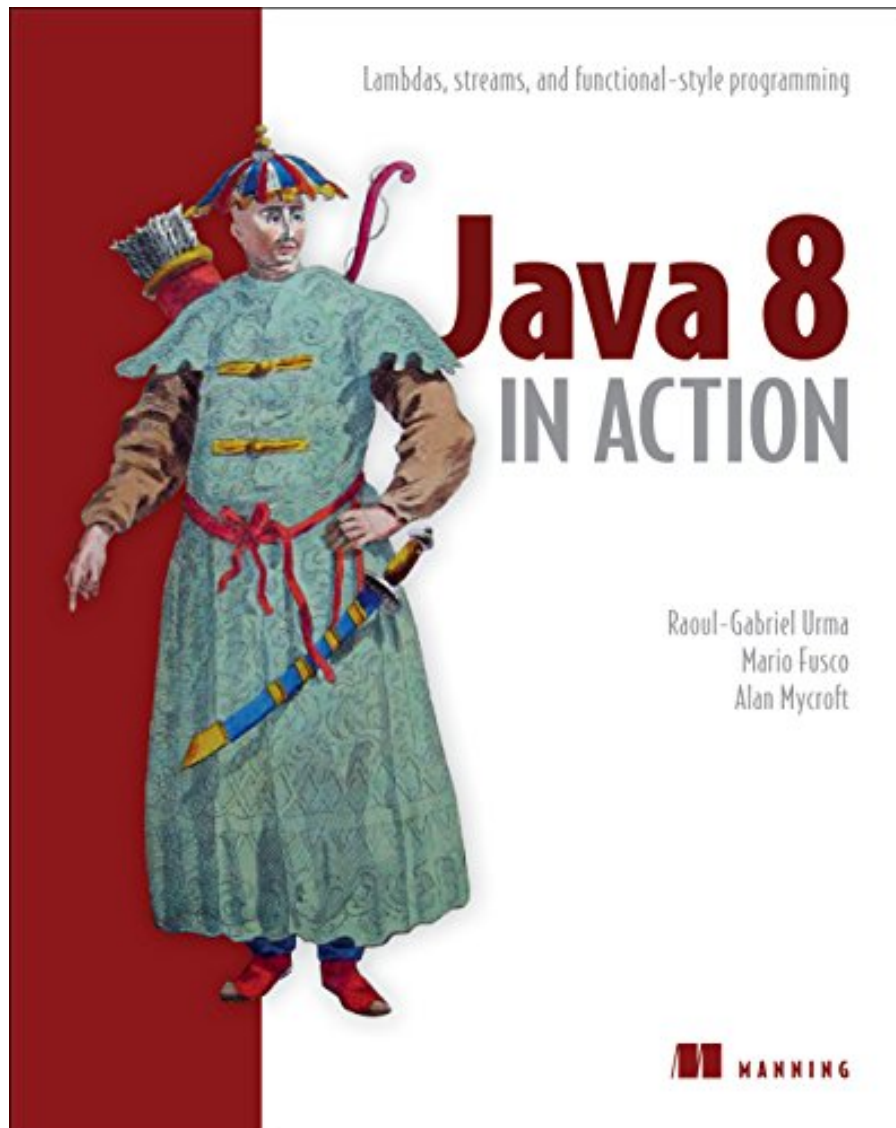

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About the Author

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.

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Summary

Java 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 Book

Every 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 Inside

- How to use Java 8's powerful new features
- Writing effective multicore-ready applications
- Refactoring, testing, and debugging
- Adopting functional-style programming
- Quizzes and quick-check questions

About the Authors

Raoul-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.

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By Jerry Tan

This is a concise and well-written introduction to Java 8.

With a bevy of new features, Java 8 represents a sea change in how the language has started to move in the direction of functional programming (likely as a result of the competitive pressures exerted by other JVM languages such as Scala), and this book offers an interesting take on all of that, from soup to nuts.

Here are some of the things I liked:

Pro's

* There are numerous quizzes that are generously sprinkled and interspersed throughout the text, which immediately follow the discussion of a given topic and help bolster your understanding of what you just read
* Clear and concise explanations of the new features in Java 8, often with a good dose of background and context which help explain and illuminate the motivating concerns of the language designers for introducing such changes
* Plenty of examples to help you sort out all the new features
* Brief introduction and primer on functional programming and techniques (Chapters 13 and 14), as well as a comparison of Scala and Java, and the blending of OOP with the functional paradigm (Chapter 15). Given the new direction which we're now evolving with the release of Java 8, these are useful things to have in this edition
* And with the bold statement of intent broadcast so clearly with the advent of Java 8, there is a brief look ahead at what will likely be in store for Java 9 and 10 in the near future

Con's

* The book assumes more than just a passing familiarity with Java, and to really appreciate the true extent and degree of recent developments, you need to have worked with several earlier versions of Java (e.g., starting with the introduction of the new for-each loop in Java 5, the tentative foray into parallelism with the introduction of the fork/join framework in Java 7, for instance), and a wary respect for the perennial NullPointerException since time immemorial in order to appreciate what Java 8 is now doing with the belated introduction of something like Optional as a better and more sane alternative to null, and perhaps finally put the last nail in the coffin of Hoare's "billion-dollar mistake."

* The section in Chapter 8 on refactoring and retrofitting existing legacy Java code base with the new features of Java 8 is a bit too short, for my taste, for such an important topic. Refactoring and retrofitting existing code base is a broad church. That said, it does reference other external sources for more info

One other point, which really doesn't qualify as a con, but would be relevant to anyone reading the Kindle edition, and so I'll mention it here anyway, is that in many of the code snippets in the MOBI format, the dash in the arrow token (for the new lambda syntax) is often rendered inadvertently as the line continuation operator, i.e., the dash of the arrow token appears at the end of the line, and then the greater-than symbol of the arrow token appears at the start of the next line, so that the arrow token of the new lambda syntax ends up

getting split in two and hyphenated in the wrong place, which makes you do a double-take, as you try to parse the code with a line-continuation character, before you then realize it's really just the arrow token of the new lambda syntax.

This happens enough in the Kindle edition that it's worth a brief note here. But once you realize that's what's going on, it becomes a non-issue (and even a bit quaint, actually).

I also found the following comparison between Streams and Collections to be particularly useful:

"For readers who like philosophical viewpoints, you can see a stream as a set of values spread out in time. In contrast, a collection is a set of values spread out in space (here, computer memory), which all exist at a single point in time - and which you access using an iterator to access members inside a for-each loop."

That's a very nice, succinct way of putting it, and there are many other nuggets like that to be found in the text.

In sum, I would recommend this book to software developers, enterprise architects, and anyone else curious about the new evolutionary path which Java is now breaking, where the introduction of functional programming features plays a central role, but is by means not the only hint that the language designers are dropping to clue us in that many new and exciting changes are now afoot.14 of 16 people found the following review helpful.
Java 8 - a game changer
By Jan
This is a much needed book for anyone eager to get started with Java 8. Make no mistake, version 8 is a significant evolution of the language and it will change how many developers write their applications!

With that in mind, I'm pleased to say that all the main areas are covered. By these I mean lambdas, single abstract method interfaces, stream processing and default methods. But there's more on offer here with chapters dedicated to refactoring, testing and the revised Date Time API (to name a few).

The authors haven't just covered the feature changes though. As some programmers coming from previous versions of Java might not be entirely familiar with the functional programming paradigm, there is a substantial section of the book that will serve as a thorough introduction. There are also plenty of useful nuggets of information scattered throughout the text that will generally make you a better programmer.

So in summary, this is a great companion to get you started on your Java 8 and functional programming journey – so take the plunge, what are you waiting for?22 of 27 people found the following review helpful.
The real Java 8 Features,explained!!
By Anto
This book is awesome like the Java 8 feature. Loved the book to the core, here are the reasons for it:

1. Book starts with how to pass function in Java older versions and slowly build up on the talk ending up saying only thing we can do about this in older version is to apply strategy pattern, with the help of anonymous class
2. Then author shows how Java 8 itself, made it easy to pass the function without creation of anonymous class, which means without creation of Objects! Arguing how Java 8 made functions as first class citizens.
3. Then it clearly explains, whats the difference between Stream and collection, as its really important to understand.
4. All chapter have sidebar quiz, which is exciting to solve :)

5. Book also does the great job of explaining how we can create our own collectors, with Fork/Join framework.
6. Since lambdas are new to our toolkit, author show cases how they can help us in creating design patterns. Along with the topic of how to debug lambdas if things goes wrong.
7. Thinking functional way lesson, gives rock solid example for thinking in terms of functional programming. Author creates a LazyList to show, how functions can be stored and evaluated lazily when called!
8. At the end of the book, they made a comparison of Java 8 with Scala. How to do features like Pattern matching (in Scala) in Java 8 are covered here.

The book end's with what all changes can Java take and how it can be changed, shows clearly where does Java stands today.

One of the best thing about the book is the appendix. Appendix shows:

1. What all minor changes made to the Java 8
2. What all library got changed in Java 8
3. The last appendix explains about how lambdas is implemented internally, which does make the book outstanding.

Overall a great book for Java developers to get started with Java 8!!!

Disclaimer: I am a volunteer reviewer for Manning Publications and was given a free eBook of Java 8 in action for my service.See all 70 customer reviews...

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