

# Modern Java IN ACTION

Urma • Fusco • Mycroft

**M**odern applications take advantage of innovative designs, including microservices, reactive architectures, and streaming data. Modern Java features like lambdas, streams, and the long-awaited Java Module System make implementing these designs significantly easier. It's time to upgrade your skills and meet these challenges head on!

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## What's Inside

- Thoroughly revised edition of Manning's bestselling *Java 8 in Action*
- New features in Java 8, Java 9, and beyond
- Streaming data and reactive programming
- The Java Module System

Written for developers familiar with core Java features.

**Raoul-Gabriel Urma** is CEO of Cambridge Spark. **Mario Fusco** is a senior software engineer at Red Hat. **Alan Mycroft** is a University of Cambridge computer science professor; he cofounded the Raspberry Pi Foundation.

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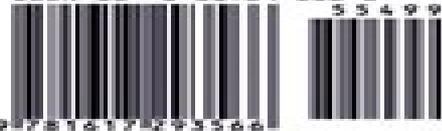
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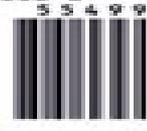
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# Java 8 9 In Action Second Edition Lambda Streams

**Yi-Tong Ma**



## Java 8 9 In Action Second Edition Lambda Streams:

**Modern Java in Action** Raoul-Gabriel Urma, Mario Fusco, Alan Mycroft, 2018-11-15 Summary Manning's bestselling Java 8 book has been revised for Java 9 In *Modern Java in Action* you'll build on your existing Java language skills with the newest features and techniques Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Modern applications take advantage of innovative designs including microservices reactive architectures and streaming data Modern Java features like lambdas streams and the long awaited Java Module System make implementing these designs significantly easier It's time to upgrade your skills and meet these challenges head on About the Book *Modern Java in Action* connects new features of the Java language with their practical applications Using crystal clear examples and careful attention to detail this book respects your time It will help you expand your existing knowledge of core Java as you master modern additions like the Streams API and the Java Module System explore new approaches to concurrency and learn how functional concepts can help you write code that's easier to read and maintain What's inside Thoroughly revised edition of Manning's bestselling Java 8 in Action New features in Java 8 Java 9 and beyond Streaming data and reactive programming The Java Module System About the Reader Written for developers familiar with core Java features About the Author Raoul Gabriel Urma is CEO of Cambridge Spark Mario Fusco is a senior software engineer at Red Hat Alan Mycroft is a University of Cambridge computer science professor he cofounded the Raspberry Pi Foundation Table of Contents PART 1 FUNDAMENTALS Java 8 9 10 and 11 what's happening Passing code with behavior parameterization Lambda expressions PART 2 FUNCTIONAL STYLE DATA PROCESSING WITH STREAMS Introducing streams Working with streams Collecting data with streams Parallel data processing and performance PART 3 EFFECTIVE PROGRAMMING WITH STREAMS AND LAMBDA Collection API enhancements Refactoring testing and debugging Domain specific languages using lambdas PART 4 EVERYDAY JAVA Using Optional as a better alternative to null New Date and Time API Default methods The Java Module System PART 5 ENHANCED JAVA CONCURRENCY Concepts behind CompletableFuture and reactive programming CompletableFuture composable asynchronous programming Reactive programming PART 6 FUNCTIONAL PROGRAMMING AND FUTURE JAVA EVOLUTION Thinking functionally Functional programming techniques Blending OOP and FP Comparing Java and Scala Conclusions and where next for Java *Modern Java in Action* Raoul-Gabriel Urma, Alan Mycroft, Mario Fusco, 2018-09-26 Summary Manning's bestselling Java 8 book has been revised for Java 9 In *Modern Java in Action* you'll build on your existing Java language skills with the newest features and techniques Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Modern applications take advantage of innovative designs including microservices reactive architectures and streaming data Modern Java features like lambdas streams and the long awaited Java Module System make implementing these designs significantly easier It's time to upgrade your skills and meet these challenges head on About the

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[Modern Java Recipes](#) Ken Kousen,2017-08-11 The introduction of functional programming concepts in Java SE 8 was a drastic change for this venerable object oriented language Lambda expressions method references and streams fundamentally changed the idioms of the language and many developers have been trying to catch up ever since This cookbook will help With more than 70 detailed recipes author Ken Kousen shows you how to use the newest features of Java to solve a wide range of problems For developers comfortable with previous Java versions this guide covers nearly all of Java SE 8 and includes a chapter focused on changes coming in Java 9 Need to understand how functional idioms will change the way you write code This cookbook chock full of use cases is for you Recipes cover The basics of lambda expressions and method references Interfaces in the java util function package Stream operations for transforming and filtering data Comparators and Collectors for sorting and converting streaming data Combining lambdas method references and streams Creating instances and extract values from Java s Optional type New I O capabilities that support functional streams The Date Time API that replaces the legacy Date and Calendar classes Mechanisms for experimenting with concurrency and parallelism

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by learning about lambdas including the lambda syntax target typing and lambda scoping From there Madhu will teach you about interfaces functions streams and stream common operations This video tutorial also covers advanced streams including grouping partitioning and flat map Finally you will learn about parallel streams including serial execution sequential or parallel and performance measurements Once you have completed this computer based training course you will have gained a solid understanding of functional Java programming Resource description page **PRACTICAL JAVA 8;LAMBDA, STREAMS AND NEW RESOURCES** PAULO SILVEIRA;RODRIGO TURINI., **Java Lambdas and Parallel Streams** Michael Müller,2016-11-30 This compact book introduces the concepts of Java lambdas and parallel streams in a concise form It begins by introducing new supporting features such as functional interfaces default methods and more After this the author demonstrates how streams can be parallelized in a very simple way within certain limits no knowledge about the thread management is needed Nevertheless some basic elements in the context of parallelism need to be considered Here the book provides a variety of information and best practices What You Will Learn Master lambdas and streams Work with the default method Harness streams and the stream function Use Stream and Spliterator Take advantage of parallel streams Work with collectors and concurrency Who This Book Is For Experienced Java programmers and developers div div

**What's New in Java 8** Adam L. Davis,2014-05-07 Java 8 is a giant step forward for the Java language In Project Lambda Java gets a new closure syntax lambda expressions method references and default and static methods on interfaces It manages to add many of the features of functional languages without losing the clarity and simplicity Java developers have come to expect In addition many of the existing Java core library classes have been enhanced with the new Streams API This book will help you understand Java 8 including Project Lambda the new Date Time API Streams default methods the Nashorn Javascript engine and more **Java 8 Streams** Sven Ruppert,2013-12-13 Java 8 bringt einige Neuerungen mit sich Eine der greren Vernderungen ist die Einf hrung des neuen Streams API in Verbindung mit Lambdas Zusammen ergeben diese beiden Dinge sehr effektive Werkzeuge f r den Entwickler Wir schauen uns an was genau diese Streams sind wie man sie einsetzen kann und welche Vorteile sich aus dem Einsatz ergeben Beispiele aus dem Bereich der Nebenl ufigkeit und der Integration in JavaFX zeigen auf wie Streams in der t glichen Arbeit eingesetzt werden k nnen Dieses Buch richtet sich an alle Entwickler die sich im Detail mit dem Einsatz von Java 8 besch ftigen wollen egal ob f r das gro e neue Projekt oder die Migration eines Altprojekts Java 8 und insbesondere die neuen Streams werden Ihnen Spa machen gehen Sie es an

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evolve in an interesting manner The java util stream and java util function packages are deeply explored presenting simple ways to work with collections and other data structures Streams and Collectors will be part of your routine and will become as essential as Collections and the java io currently are to your applications Lastly we ll see how the new API java time comes to change from water to wine the way how we work with dates and times

**Mastering Lambdas** Maurice Naftalin,2014-10-17 The Definitive Guide to Lambda Expressions Mastering Lambdas Java Programming in a Multicore World describes how the lambda related features of Java SE 8 will enable Java to meet the challenges of next generation parallel hardware architectures The book explains how to write lambdas and how to use them in streams and in collection processing providing code examples throughout You ll learn how to use lambda expressions to take full advantage of performance improvements provided by today s multicore hardware This Oracle Press book covers Why lambdas were needed and how they will change Java programming Syntax of lambda expressions The basic operation of streams and pipelines Using collectors and reduction to end pipelines Creating streams Spliterators the fork join framework and exceptions Examining stream performance with microbenchmarking API evolution using default methods

[Java 8 Streams](#) Sven Ruppert,2015 *Java Lambdas and the Stream API* James McLaughlin,2019 Come up to speed with Java functional programming and write effective Java code with less effort using lambdas and the stream API Make your Java project code more reliable by using the declarative approach provided by these new Java features Learn how to leverage the updated collections API to facilitate common functional programming patterns such as map filter reduce If you ve ever stumbled through constructing for loops and while loops this video will add to your programming toolbox and allow you to leave such heavy lifting to the stream API You ll begin your journey with the syntax of Java lambdas what they are and how to use them You will then be introduced to Java streams and the various ways of creating them for the purpose of processing data You will also learn about the updates which have been made to the Java collections API for supporting streams Along the way you will be taught the streams API and how to use the methods defined in the Stream class to process data sources to obtain the results you desire by employing lambdas with the Stream class operations What You Will Learn Write functional interfaces for defining lambdas Master lambda syntax for implementing anonymous functions Create streams associated with data sources Process data through stream operations Use method references for simplifying lambda expressions Discover parallel and sequential streams and how they differ Who This Video Is For Software developers familiar with Java who wish to employ functional programming techniques in their software projects in order to write reliable compact and easy to read Java code

[Introducing Java 8](#) Raoul-Gabriel Urma,2015 **Simplifying Java 8 with Lambdas** Richard Warburton,2014 In this webcast we go through a series of code examples that show how to use the new lambda expressions feature write more readable and faster collections processing code using the Streams API build complex data processing systems with the new collector abstraction use Lambda expressions in your own code Resource description page [Java 9 Streams](#) Sven

Ruppert,2018-05-09 Java 8 brachte mit der Einführung des Streams API in Verbindung mit Lambdas große Neuerungen mit sich die in Java 9 konsequent weitergeführt werden In seinem shortcut zeigt Sven Ruppert was genau diese Streams sind wie man sie einsetzt und welche Vorteile sich aus dem Einsatz ergeben sowohl für serielle als auch für parallele Nutzung Dabei erläutert er anhand zahlreicher Codebeispiele sehr genau verschiedene Methoden der Implementierung geht bei den Collector und StreamSupport Klassen ins Detail und schließt den großen Bogen zum Paradigma der funktionalen Programmierung

*Reactive Streams in Java* Adam L. Davis,2018-11-29 Get an easy introduction to reactive streams in Java to handle concurrency data streams and the propagation of change in today's applications This compact book includes in depth introductions to RxJava Akka Streams and Reactor and integrates the latest related features from Java 9 and 11 as well as reactive streams programming with the Android SDK Reactive Streams in Java explains how to manage the exchange of stream data across an asynchronous boundary passing elements on to another thread or thread pool while ensuring that the receiving side is not forced to buffer arbitrary amounts of data which can reduce application efficiency After reading and using this book you'll be proficient in programming reactive streams for Java in order to optimize application performance and improve memory management and data exchanges What You Will Learn Discover reactive streams and how to use them Work with the latest features in Java 9 and Java 11 Apply reactive streams using RxJava Program using Akka Streams Carry out reactive streams programming in Android Who This Book Is For Experienced Java programmers *Mastering Lambdas* Maurice Naftalin,2014 Explaining how to write lambdas and how to use them in streams and in collection processing this Oracle Press Guide describes how the lambda related features of Java SE 8 will enable Java to meet the challenges of next generation parallel hardware architectures *Java Lambdas : Introduction to Java 8 Functional Programming* Nathanael Nachenga,2020-06-08 The deep descriptions are provided for Lambdas and Lambda expressions A good starting point especially for those who are still new to lambdas and functional programming as a whole All the complicated concepts have been explained in details from type inference target types to functional interfaces and how and where should we use Lambda expressions [Learning Java Lambda Expressions](#) Peggy Fisher,2016 **Java Lambda Tutorial** [PDF],2014-02-06 JavaScript Python Scala First class function Java 2010 JCD Lambda Closure JavaScript Python Scala Java SE 7 JavaScript Python Scala Java Lambda Closure Java Lambda Java SE 8 Lambda API 2012 Java TWO Java SE 8 Lambda Lambda Lambda Java Paradigm Java Functional programming Java Lambda API 2012 JCD Java Java Java SE 8 2014 3 Java Lambda JDK8 Functional API JDK8 Lambda Lambda Closure JavaScript Closure Python Lambda Closure Scala Java Lambda JDK8 Lambda Java List JDK8 JDK8 Functional API Optional null Consumer Function Predicate Supplier Stream Stream reduce collect Optional Stream flatMap Stream

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