

Java 8 in Action: Lambdas, Streams, and functional-style programming by Raoul-Gabriel Urma



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Java 8 In Action Ebook Raoul Gabriel Urma

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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.

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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.

About the Reader: Written for developers familiar with core Java features.

About the Author: Raoul Gabriel Urbina 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.

MongoDB in Action by Kyle Banker, Douglas Garrett, Peter Bakum, Shaun Verch, 2016-03-29. Summary: MongoDB in Action, Second Edition, is a completely revised and updated version. It introduces MongoDB 3.0 and the document-oriented database model. This perfectly paced book gives you both the big picture you'll need as a developer and enough low-level detail to satisfy system engineers. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

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system engineers Lots of examples will help you develop confidence in the crucial area of data modeling You'll also love the deep explanations of each feature including replication auto sharding and deployment What's Inside Indexes queries and standard DB operations Aggregation and text searching Map reduce for custom aggregations and reporting Deploying for scale and high availability Updated for MongoDB 3.0 About the Reader Written for developers No previous MongoDB or NoSQL experience is assumed About the Authors After working at MongoDB Kyle Banker is now at a startup Peter Bakum is a developer with MongoDB expertise Shaun Verch has worked on the core server team at MongoDB A Genentech engineer Doug Garrett is one of the winners of the MongoDB Innovation Award for Analytics A software architect Tim Hawkins has led search engineering at Yahoo Europe Technical Contributor Wouter Thielen Technical Editor Mihalis Tsoukalos Table of Contents PART 1 GETTING STARTED A database for the modern web MongoDB through the JavaScript shell Writing programs using MongoDB PART 2 APPLICATION DEVELOPMENT IN MONGODB Document oriented data Constructing queries Aggregation Updates atomic operations and deletes PART 3 MONGODB MASTERY Indexing and query optimization Text search WiredTiger and pluggable storage Replication Scaling your system with sharding Deployment and administration

Modern Java in Action Video Edition Raoul-Gabriel Urma, Mario Fusco, Alan Mycroft, 2018 A comprehensive and practical introduction to the modern features of the latest Java releases with excellent examples Oleksandr Mandryk EPAM Systems Manning's bestselling Java 8 book has been revised for Java 9 and 10 In Modern Java in Action you'll build on your existing Java language skills with the newest features and techniques 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 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 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 My Java code improved significantly after reading this book I was able to take the clear examples and immediately put them into practice Holly Cummins IBM Hands on Java 8 and 9 simply and elegantly explained Deepak Bhaskaran Salesforce A lot of great examples and use cases for streams concurrency and reactive programming Rob Pacheco Synopsys NARRATED BY SARAH DAWE AND LOU FERNANDEZ *Programming Promises in Java 8 Using Completable Futures* Raoul-Gabriel Urma, 2017 Reactive and

asynchronous applications are growing in popularity but what is the best way to build them This course helps you apply the latest concurrency techniques to develop state of the art Java applications necessary for the microservices service oriented architecture SOA model It builds upon the theory described in the associated Asynchronous Programming in Java course by refactoring several projects using Java 8 s CompletableFuture class It explains the concept behind CompletableFuture examines the problems they solve for Java developers and shows through examples how to use the API productively in practice The course is designed for software architects and intermediate to advanced level Java developers Understand how to program event driven reactive code using Java 8 and CompletableFuture Gain experience implementing reactive code in a readable and maintainable way Learn to build reliable and performant Java apps for the microservices SOA model Raoul Gabriel Urma is CEO of Cambridge Spark a learning community for data scientists and developers in the UK Co author of Java 8 in Action Manning Publications Raoul has delivered over 100 technical talks at international conferences He s worked for Google eBay Oracle and Goldman Sachs and holds a PhD in Computer Science from the University of Cambridge Richard Warburton is a software engineer teacher and Java Champion He s worked as a developer in such diverse areas as low latency trading systems statistical analytics static analysis compilers and network protocols Author of Java 8 Lambdas O Reilly Media Richard holds a PhD in Computer Science from The University of Warwick

Introducing Java 8 Raoul-Gabriel Urma,2015

Programming Reactive Streams with RxJava Richard Warburton,2017

Reactive and asynchronous applications are growing in popularity but what is the best way to build them This course designed for software architects and intermediate to advanced level Java programmers teaches you how to apply the latest concurrency techniques to develop state of the art Java applications With the rise of microservices and service oriented architectures SOAs asynchronous concurrency is now critical in day to day Java development This course builds upon theory offered in the associated Asynchronous Programming in Java course by refactoring several Java projects using RxJava It explains the concepts behind this popular library shows how RxJava compares with other concurrency concepts and illustrates how to use the library productively in practice Resource description page [Asynchronous Programming in Java](#) Richard Warburton,2017

Reactive and asynchronous applications are growing in popularity but what is the best way to build them This course teaches you how to apply the latest concurrency techniques to develop state of the art Java applications With the rise of microservices and service oriented architecture SOA asynchronous concurrency is now critical to day to day Java development This video designed for software architects and intermediate to advanced level Java developers begins by reviewing the differences between asynchronous and synchronous programming It then looks at the problems Java programmers currently have when using different synchronous programming models before diving deep into non blocking I O timeouts circuit breakers and the different approaches to concurrency Resource description page **Programming Actors with Akka** Raoul-Gabriel Urma,2017

Reactive and asynchronous applications are growing in popularity but what is the best way to build them This

course teaches you how to apply the latest concurrency techniques to develop state of the art Java applications With the rise of microservices and service oriented architectures SOAs asynchronous concurrency is now critical to day to day Java development This video builds on the theory offered in the associated Asynchronous Programming in Java course by refactoring several Java projects using Actors in Akka From there it explains the concepts behind the actor model how the Akka toolkit compares with other concurrency concepts and how to use the Akka API Resource description page **Java 8** Kevin Lyn,2015-10-02 Java 8 is a very powerful programming language and with it you can create impressive applications including the interface and also the functionality Before the release of Java 8 Java experts had been waiting for a long period of time for Lambda expressions Functional interfaces Stream API and default methods which were not provided in the previous releases of Java Here is a preview of what you ll learn Requirements for Java 8 programming Creating a Project and a Class Lambda Expression in Java 8 programming Uses of Lambda Expression in Java 8 Functional Programming in Java 8 Streams in Java 8 Predicates in Java 8 *Java 8* Kevin Lyn,2016-04-12 Java 8 Programming A Step by Step Guide For Beginners FAST and SIMPLE Learning of JAVA Programming Java 8 is a very powerful programming language and with it you can create impressive applications including the interface and also the functionality Before the release of Java 8 Java experts had been waiting for a long period of time for Lambda expressions Functional interfaces Stream API and default methods which were not provided in the previous releases of Java Here is a preview of what you ll learn Requirements for Java 8 programming Creating a Project and a Class Lambda Expression in Java 8 programming Uses of Lambda Expression in Java 8 Functional Programming in Java 8 Streams in Java 8 Predicates in Java 8 Download your copy of Java 8 by scrolling up and clicking Buy Now With 1 Click button [Programming Promises in Java 8](#) Raoul-Gabriel Urma,2017 Reactive and asynchronous applications are growing in popularity but what is the best way to build them This course helps you apply the latest concurrency techniques to develop state of the art Java applications necessary for the microservices service oriented architecture SOA model It builds upon the theory described in the associated Asynchronous Programming in Java course by refactoring several projects using Java 8 s CompletableFuture class It explains the concept behind CompletableFuture examines the problems they solve for Java developers and shows through examples how to use the API productively in practice The course is designed for software architects and intermediate to advanced level Java developers Resource description page **Pro Java 8 Programming** Terrill Brett Spell,2015-05-29 Pro Java 8 Programming covers the core Java development kit It takes advantage of the finer points of the core standard edition SE and development kit version 8 You ll discover the particulars of working with the Java language and APIs to develop applications in many different contexts You will also delve into more advanced topics like lambda expressions closures new i o NIO 2 enums generics XML metadata and the Swing APIs for GUI design and development By the end of the book you ll be fully prepared to take advantage of Java s ease of development and able to create powerful sophisticated Java applications **Java 8 to 21** Shai Almog,2023-07-01 A

comprehensive guide empowering developers with the advanced capabilities of Java

KEY FEATURES

Gain insights into the significant changes and features introduced in Java versions 8 to 21 Learn how to build Java applications with Spring and Spring Boot Monitor diagnose and optimize the performance of your Java applications in production environments

DESCRIPTION

Are you still using Java in the same old way Java 21 has evolved into a dynamic and concise language with a vibrant and rich ecosystem If you re seeking to expand your knowledge of modern Java programming this book is the ideal resource for you This practical book offers valuable guidance on effectively utilizing the latest syntax enhancements in order to write code that is both streamlined and easy to understand It not only provides detailed insights into the inner workings of the Java virtual machine JVM but also equips you with the knowledge necessary to excel in building scalable and resilient applications using a variety of powerful techniques such as Spring Boot Spring Native GraalVM and other innovative methodologies Furthermore the book assists you in navigating the complexities of testing and packaging helping you comprehend and navigate intricate processes It also introduces you to cutting edge deployment methodologies that leverage Docker and Kubernetes ensuring that you stay up to date with the most recent advancements in software development and deployment practices By the time you finish reading this book you will have upgraded your Java programming techniques and gained the ability to fully exploit the latest and greatest advancements in the language

WHAT YOU WILL LEARN

Explore different techniques for developing multithreaded applications in Java Harness the power of modern Java and Spring Boot 3 to elevate your server development capabilities Utilize the power of Docker Kubernetes and Spring Native to streamline your cloud based deployments Integrate unit testing Mockito and continuous integration CI into your Java projects Use Prometheus and Grafana to monitor the performance of your Java applications

WHO THIS BOOK IS FOR

This book is suitable for individuals who are new to Java and have little to no experience but possess a basic understanding of the syntax Additionally it provides valuable insights for developers who may have not utilized Java in a significant timeframe

TABLE OF CONTENTS

- 1 Hello Java
- 2 OOP Patterns
- 3 8 to 21 to GraalVM
- 4 Modern Threading
- 5 It s Springtime in Java
- 6 Testing and CI
- 7 Docker Kubernetes and Spring Native
- 8 Microservices
- 9 Serverless
- 10 Monitoring and Observability

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

Functional Programming in Java Venkat Subramaniam,2014 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

On Java 8 Bruce Eckel,2017-06-16

Teach Yourself Java Programming in 31 Days : Harry. H. Chaudhary.,2014-08-15 Essential Java Skills Made Easy What Special In this book I covered and explained several topics of latest Java 8 Features in detail for Developers Fresher s Topics Like Lambdas Java 8 Functional interface Stream and Time API in Java 8 This Java book doesn t require previous programming experience However if you come from a C or C programming background then you will be able to learn faster Learn the all basics and advanced features of Java programming in no time from Bestseller Java Programming Author Harry H Chaudhary More than 1 67 000 Books Sold This Java Guide starts with the basics and Leads to Advance features of Java in detail with thousands of Java Codes and new features of Java 8 like Lambdas Java 8 Functional interface Stream and Time API in Java 8 I promise this book will make you expert level champion of java Anyone can learn java through this book at expert level The main objective of this java book is not to give you just Java Programming Knowledge I have followed a pattern of improving the question solution of thousands of Codes with clear theory explanations with different Java complexities for each java topic problem and you will find multiple solutions for complex java problems Engineering Students and fresh developers can also use this book This book covers common core syllabus for all Computer Science Professional Degrees If you are really serious then go ahead and make your day with this ultimate java book First Part Teach you how to compile and run a Java program shows you everything you need to develop compile debug and run Java programs And then discusses the keywords syntax and constructs that form the core of the Java language After that it leads you to advanced features of java including multithreaded programming and Applets Learning a new language is no easy task especially when it s an oop s programming language like Java You might think the problem is your brain It seems to have a mind of its own a mind that doesn t always want to take in the dry technical stuff you re forced to study The fact is your brain craves novelty This Java Book is very serious java stuff A complete introduction to Java You ll learn everything from the fundamentals to advanced topics if you ve read this book you know what to expect a visually rich format designed for the way your brain works To use this book does not require any previous programming experience However if you come from a C C background then you will be able to

advance a bit more rapidly As most readers will know Java is similar in form and spirit to C C Thus knowledge of those languages helps but is not necessary Even if you have never programmed before you can learn to program in Java using this book

Inside Contents Chapters 1 Overview of Java 2 Java Language 3 Control Statements 4 Scanner class Arrays Command Line Args 5 Class Objects in Java 6 Inheritance in Java 7 Object oriented programming 8 Packages in Java 9 Interface in Java 10 String and StringBuffer 11 Exception Handling 12 Multi Threaded Programming 13 Modifiers Visibility modes 14 Wrapper Class 15 Input Output in Java 16 Applet Fundamentals 17 Abstract Windows Toolkit AWT 18 Introduction To AWT Events 19 Painting in AWT 20 java lang Object Class 21 Collection Framework PART II Java 8 Features for Developers 22 Java 8 Features for Developers Lambdas 23 Java 8 Functional interface Stream Time API 24 Key Features that Make Java More Secure than Other Languages

Java 8 Streams Sven Ruppert,2013-12-13 Java 8 bringt einige Neuerungen mit sich Eine der greren Ver nderungen 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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Table of Contents Java 8 In Action Ebook Raoul Gabriel Urma

1. Understanding the eBook Java 8 In Action Ebook Raoul Gabriel Urma
 - The Rise of Digital Reading Java 8 In Action Ebook Raoul Gabriel Urma
 - Advantages of eBooks Over Traditional Books
2. Identifying Java 8 In Action Ebook Raoul Gabriel Urma
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Java 8 In Action Ebook Raoul Gabriel Urma
 - User-Friendly Interface

4. Exploring eBook Recommendations from Java 8 In Action Ebook Raoul Gabriel Urma
 - Personalized Recommendations
 - Java 8 In Action Ebook Raoul Gabriel Urma User Reviews and Ratings
 - Java 8 In Action Ebook Raoul Gabriel Urma and Bestseller Lists
5. Accessing Java 8 In Action Ebook Raoul Gabriel Urma Free and Paid eBooks
 - Java 8 In Action Ebook Raoul Gabriel Urma Public Domain eBooks
 - Java 8 In Action Ebook Raoul Gabriel Urma eBook Subscription Services
 - Java 8 In Action Ebook Raoul Gabriel Urma Budget-Friendly Options
6. Navigating Java 8 In Action Ebook Raoul Gabriel Urma eBook Formats
 - ePub, PDF, MOBI, and More
 - Java 8 In Action Ebook Raoul Gabriel Urma Compatibility with Devices
 - Java 8 In Action Ebook Raoul Gabriel Urma Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Java 8 In Action Ebook Raoul Gabriel Urma
 - Highlighting and Note-Taking Java 8 In Action Ebook Raoul Gabriel Urma
 - Interactive Elements Java 8 In Action Ebook Raoul Gabriel Urma
8. Staying Engaged with Java 8 In Action Ebook Raoul Gabriel Urma
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Java 8 In Action Ebook Raoul Gabriel Urma
9. Balancing eBooks and Physical Books Java 8 In Action Ebook Raoul Gabriel Urma
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Java 8 In Action Ebook Raoul Gabriel Urma
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Java 8 In Action Ebook Raoul Gabriel Urma
 - Setting Reading Goals Java 8 In Action Ebook Raoul Gabriel Urma
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Java 8 In Action Ebook Raoul Gabriel Urma
 - Fact-Checking eBook Content of Java 8 In Action Ebook Raoul Gabriel Urma
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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