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# Learning Reactive Programming with Java 8

Learn how to use RxJava and its reactive Observables to build fast, concurrent, and powerful applications through detailed examples

Nickolay Tsvetinov

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PUBLISHING

# Learning Reactive Programming With Java 8

**Richard M Reese**



## **Learning Reactive Programming With Java 8:**

*Learning Reactive Programming with Java 8* Nickolay Tsvetinov,2015-06-19 If you are a Java developer that knows how to write software and would like to learn how to apply your existing skills to reactive programming this book is for you

**Learning Reactive Programming with Java 8** Nickolay Tsvetinov,2015-06-24 Whether you are a Java expert or at a beginner level you ll benefit from this book because it will teach you a brand new way of coding and thinking The book starts with an explanation of what reactive programming is why it is so appealing and how we can integrate it in to Java It continues by introducing the new Java 8 syntax features such as lambdas and function references and some functional programming basics From this point on the book focuses on RxJava in depth It goes through creating Observables transforming filtering and combining them and concurrency and testing to finish with extending the library itself This book is a definite tutorial in RxJava filled with a lot of well described examples It explains reactive programming concepts in plain and readable language without scientific formulas and terms

**Learning Java Functional Programming** Richard M Reese,2015-10-14 Create robust and maintainable Java applications using the functional style of programming About This Book Explore how you can blend object oriented and functional programming styles in Java Use lambda expressions to write flexible and succinct code A tutorial that strengthens your fundamentals in functional programming techniques to enhance your applications Who This Book Is For If you are a Java developer with object oriented experience and want to use a functional programming approach in your applications then this book is for you All you need to get started is familiarity with basic Java object oriented programming concepts What You Will Learn Use lambda expressions to simplify code Use function composition to achieve code fluency Apply streams to simply implementations and achieve parallelism Incorporate recursion to support an application s functionality Provide more robust implementations using Optionals Implement design patterns with less code Refactor object oriented code to create a functional solution Use debugging and testing techniques specific to functional programs In Detail Functional programming is an increasingly popular technology that allows you to simplify many tasks that are often cumbersome and awkward using an object oriented approach It is important to understand this approach and know how and when to apply it Functional programming requires a different mindset but once mastered it can be very rewarding This book simplifies the learning process as a problem is described followed by its implementation using an object oriented approach and then a solution is provided using appropriate functional programming techniques Writing succinct and maintainable code is facilitated by many functional programming techniques including lambda expressions and streams In this book you will see numerous examples of how these techniques can be applied starting with an introduction to lambda expressions Next you will see how they can replace older approaches and be combined to achieve surprisingly elegant solutions to problems This is followed by the investigation of related concepts such as the Optional class and monads which offer an additional approach to handle problems Design patterns have been instrumental in solving common problems You

will learn how these are enhanced with functional techniques To transition from an object oriented approach to a functional one it is useful to have IDE support IDE tools to refactor debug and test functional programs are demonstrated through the chapters The end of the book brings together many of these functional programming techniques to create a more comprehensive application You will find this book a very useful resource to learn and apply functional programming techniques in Java Style and approach In this tutorial each chapter starts with an introduction to the terms and concepts covered in that chapter It quickly progresses to contrast an object oriented approach with a functional approach using numerous code examples

*Reactive Programming with Java 8*, 2018 Learn reactive programming with Java 8 Learn how to write asynchronous concurrent and resilient Java applications using frameworks such as RxJava and Akka

*Spring Boot 2.0 Projects* Mohamed Shazin Sadakath, 2018-07-30 Develop diverse real life projects including most aspects of Spring Boot Key Features Run production grade based applications using the Spring WebFlux framework Learn to develop high performance asynchronous applications with Spring Boot Create robust microservice based applications with Kotlin using Spring Boot Book Description Spring is one of the best tools available on the market for developing web enterprise and cloud ready software The goal of Spring Boot is to provide a set of tools for quickly building Spring applications that are easy to configure and that make it easy to create and run production grade Spring based applications Spring Boot 2 0 Projects will get you acquainted with important features of the latest version of this application building tool and will cover basic as well as advanced topics The book starts off by teaching you how to create a web application using Spring Boot followed by creating a Spring Boot based simple blog management system that uses Elasticsearch as the data store As you make your way through the chapters you ll build a RESTful web services application using Kotlin and the Spring WebFlux framework Spring WebFlux is a new framework that helps in creating a reactive application in a functional way Toward the end of the book you will build a taxi hailing API with reactive microservices using Spring Boot and a Twitter clone with a Spring Boot backend Finally you ll learn how to build an asynchronous email formatter What you will learn Learn the fundamental features of Spring Boot 2 0 Customize Spring Boot 2 0 applications Build a basic web application Use Redis to build a taxi hailing API Create a simple blog management system and a Twitter clone Develop a reactive RESTful web service with Kotlin using Spring Boot Who this book is for This book is for competent Spring developers who wish to understand how to develop complex yet scalable applications with Spring Boot You must have a good knowledge of Java programming and be familiar with the basics of Spring

**Learning Spring Boot 3.0** Greg L. Turnquist, 2022-12-30 Build Java web apps without wasting any time with this third edition of the best selling Spring Boot guide for beginners updated and enhanced with defining features of Spring Boot 3 Purchase of the print or Kindle book includes a free eBook PDF Key Features Learn Spring Boot in a cohesive manner with this practical guide by a core Spring contributor Discover popular Java developer tools such as GraalVM native images serving up JSON and more Build secure scalable and manageable web applications from zero to

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Karanam,2017-06-28 Develop cloud native applications with microservices using Spring Boot Spring Cloud and Spring Cloud Data Flow About This Book Explore the new features and components in Spring Evolve towards micro services and cloud native applications Gain powerful insights into advanced concepts of Spring and Spring Boot to develop applications more effectively Understand the basics of Kotlin and use it to develop a quick service with Spring Boot Who This Book Is For This book is for an experienced Java developer who knows the basics of Spring and wants to learn how to use Spring Boot to build applications and deploy them to the cloud What You Will Learn Explore the new features in Spring Framework 5 0 Build microservices with Spring Boot Get to know the advanced features of Spring Boot in order to effectively develop and monitor applications Use Spring Cloud to deploy and manage applications on the Cloud Understand Spring Data and Spring Cloud Data Flow Understand the basics of reactive programming Get to know the best practices when developing applications with the Spring Framework Create a new project using Kotlin and implement a couple of basic services with unit and integration testing In Detail Spring 5 0 is due to arrive with a myriad of new and exciting features that will change the way we ve used the framework so far This book will show you this evolution from solving the problems of testable applications to building distributed applications on the cloud The book begins with an insight into the new features in Spring 5 0 and shows you how

to build an application using Spring MVC You will realize how application architectures have evolved from monoliths to those built around microservices You will then get a thorough understanding of how to build and extend microservices using Spring Boot You will also understand how to build and deploy Cloud Native microservices with Spring Cloud The advanced features of Spring Boot will be illustrated through powerful examples We will be introduced to a JVM language that s quickly gaining popularity Kotlin Also we will discuss how to set up a Kotlin project in Eclipse By the end of the book you will be equipped with the knowledge and best practices required to develop microservices with the Spring Framework Style and approach This book follows an end to end tutorial approach with lots of examples and sample applications covering the major building blocks of the Spring framework

**Learning RxJava** Thomas Nield,2017-06-20 Reactive Programming with Java and ReactiveX About This Book Explore the essential tools and operators RxJava provides and know which situations to use them in Delve into Observables and Subscribers the core components of RxJava used for building scalable and performant reactive applications Delve into the practical implementation of tools to effectively take on complex tasks such as concurrency and backpressure Who This Book Is For The primary audience for this book is developers with at least a fundamental mastery of Java Some readers will likely be interested in RxJava to make programs more resilient concurrent and scalable Others may be checking out reactive programming just to see what it is all about and to judge whether it can solve any problems they may have What You Will Learn Learn the features of RxJava 2 that bring about many significant changes including new reactive types such as Flowable Single Maybe and Completable Understand how reactive programming works and the mindset to think reactively Demystify the Observable and how it quickly expresses data and events as sequences Learn the various Rx operators that transform filter and combine data and event sequences Leverage multicasting to push data to multiple destinations and cache and replay them Discover how concurrency and parallelization work in RxJava and how it makes these traditionally complex tasks trivial to implement Apply RxJava and Retrolambda to the Android domain to create responsive Android apps with better user experiences Use RxJava with the Kotlin language to express RxJava more idiomatically with extension functions data classes and other Kotlin features In Detail RxJava is a library for composing asynchronous and event based programs using Observable sequences for the JVM allowing developers to build robust applications in less time Learning RxJava addresses all the fundamentals of reactive programming to help readers write reactive code as well as teach them an effective approach to designing and implementing reactive libraries and applications Starting with a brief introduction to reactive programming concepts there is an overview of Observables and Observers the core components of RxJava and how to combine different streams of data and events together You will also learn simpler ways to achieve concurrency and remain highly performant with no need for synchronization Later on we will leverage backpressure and other strategies to cope with rapidly producing sources to prevent bottlenecks in your application After covering custom operators testing and debugging the book dives into hands on examples using RxJava on Android as well as Kotlin Style and

approach This book will be different from other Rx books taking an approach that comprehensively covers Rx concepts and practical applications

*Learn Spring for Android Application Development* S. M. Mohi Us Sunnat,Igor Kucherenko,2019-01-31 A hands on guide to Android programming with Spring MVC Spring Boot and Spring Security Key FeaturesBuild native Android applications with Spring for AndroidExplore Reactive programming concurrency and multithreading paradigms for building fast and efficient applicationsWrite more expressive and robust code with Kotlin using its coroutines and other latest featuresBook Description As the new official language for Android Kotlin is attracting new as well as existing Android developers As most developers are still working with Java and want to switch to Kotlin they find a combination of these two appealing This book addresses this interest by bringing together Spring a widely used Java SE framework for building enterprise grade applications and Kotlin Learn Spring for Android Application Development will guide you in leveraging some of the powerful modules of the Spring Framework to build lightweight and robust Android apps using Kotlin You will work with various modules such as Spring AOP Dependency Injection and Inversion of Control to develop applications with better dependency management You ll also explore other modules of the Spring Framework such as Spring MVC Spring Boot and Spring Security Each chapter has practice exercises at the end for you to assess your learning By the end of the book you will be fully equipped to develop Android applications with Spring technologies What you will learnGet to grips with the basics of the Spring FrameworkWrite web applications using the Spring Framework with KotlinDevelop Android apps with KotlinConnect a RESTful web service with your app using RetrofitUnderstand JDBC JPA MySQL for Spring and SQLite Room for AndroidExplore Spring Security fundamentals Basic Authentication and OAuth2Delve into Concurrency and Reactive programming using KotlinDevelop testable applications with Spring and AndroidWho this book is for If you re an aspiring Android developer or an existing developer who wants to learn how to use Spring to build robust Android applications in Kotlin this book is for you Though not necessary basic knowledge of Spring will assist with understanding key concepts covered in this book

*Pro Spring 5* Iuliana Cosmina,Rob Harrop,Chris Schaefer,Clarence Ho,2017-10-11 Master Spring basics and core topics and share the authors insights and real world experiences with remoting Hibernate and EJB Beyond the basics you ll learn how to leverage the Spring Framework to build the various tiers and parts of an enterprise Java application transactions web and presentation tiers deployment and much more A full sample application allows you to apply many of the technologies and techniques covered in Pro Spring 5 and see how they work together This book updates the perennial bestseller with the latest that the new Spring Framework 5 has to offer Now in its fifth edition this popular title is by far the most comprehensive and definitive treatment of Spring available It covers the new functional web framework and interoperability with Java 9 After reading this definitive book you ll be armed with the power of Spring to build complex Spring applications top to bottom The agile lightweight open source Spring Framework continues to be the de facto leading enterprise Java application development framework for today s Java programmers and developers

It works with other leading open source agile and lightweight Java technologies such as Hibernate Groovy MyBatis and more Spring now works with Java EE and JPA 2 as well What You ll Learn Discover what s new in Spring Framework 5 Use the Spring Framework with Java 9 Master data access and transactions Work with the new functional web framework Create microservices and other web services Who This Book Is For Experienced Java and enterprise Java developers and programmers Some experience with Spring highly recommended

**Camel in Action** Claus Ibsen,Jonathan Anstey,2018-02-02 Summary Camel in Action Second Edition is the most complete Camel book on the market Written by core developers of Camel and the authors of the highly acclaimed first edition this book distills their experience and practical insights so that you can tackle integration tasks like a pro Forewords by James Strachan and Dr Mark Little Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Apache Camel is a Java framework that implements enterprise integration patterns EIPs and comes with over 200 adapters to third party systems A concise DSL lets you build integration logic into your app with just a few lines of Java or XML By using Camel you benefit from the testing and experience of a large and vibrant open source community About the Book Camel in Action Second Edition is the definitive guide to the Camel framework It starts with core concepts like sending receiving routing and transforming data It then goes in depth on many topics such as how to develop debug test deal with errors secure scale cluster deploy and monitor your Camel applications The book also discusses how to run Camel with microservices reactive systems containers and in the cloud What s Inside Coverage of all relevant EIPs Camel microservices with Spring Boot Camel on Docker and Kubernetes Error handling testing security clustering monitoring and deployment Hundreds of examples in Java and XML About the Reader Readers should be familiar with Java This book is accessible to beginners and invaluable to experts About the Author Claus Ibsen is a senior principal engineer working for Red Hat specializing in cloud and integration He has worked on Apache Camel for the last nine years where he heads the project Claus lives in Denmark Jonathan Anstey is an engineering manager at Red Hat and a core Camel contributor He lives in Newfoundland Canada

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**Intelligent Data Engineering and Automated Learning** ,2005 **Proceedings of the ACM Symposium on Document Engineering (DocEng '01)** Ethan V. Munson,2001 **IEEE International Conference on Advanced Learning Technologies** IEEE

Computer Society,2001 Focusing on computational intelligence this text covers topics on architecture of learning technology systems advanced uses of multimedia and hypermedia integrated learning environments application of AI tools in learning technology and virtual reality **Proceedings** ,2003 *Reactive Programming with Java 8* Chris Anatalio,2018

**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 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 **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

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