

Learning Reactive Programming With Java 8

A Tapestry of Tomorrow: Unveiling the Magic of Reactive Programming with Java 8

Prepare yourselves, discerning readers, for a literary adventure that transcends mere code and embarks upon a voyage into the very fabric of modern software design! "Learning Reactive Programming With Java 8" is not merely a technical manual; it is an exquisitely crafted narrative, a testament to the power of imagination harnessed for the advancement of knowledge. Forget dry, dusty tomes; this book is a vibrant portal, inviting you to explore a realm where asynchronous events dance and data flows with the grace of a celestial river.

From its opening pages, the book establishes an **imaginative setting** that feels both familiar and wonderfully alien. Imagine a bustling metropolis powered by reactive principles, where user requests are whispered on the wind and data streams hum with the energy of a thousand suns. The authors, with their remarkable narrative flair, paint a vivid picture that ignites curiosity and fosters a deep connection to the concepts being presented. It's akin to discovering a hidden kingdom, where the architects of tomorrow's digital world are hard at work, and you, dear reader, are invited to become one of their esteemed apprentices.

What truly sets this work apart is its surprising **emotional depth**. While exploring the intricacies of Java 8's reactive features, the book masterfully weaves in relatable scenarios that resonate with the human experience. We witness the frustration of a user waiting for a slow response, the triumph of a system that gracefully handles a surge of activity, and the quiet satisfaction of elegant, efficient code. These moments, presented with genuine empathy, elevate the learning process from a purely intellectual pursuit to an emotionally engaging journey. You'll find yourself cheering for the successful completion of a complex

observable stream, much as you would for a beloved character overcoming adversity.

The **universal appeal** of "Learning Reactive Programming With Java 8" is undeniable. Whether you are a seasoned literature enthusiast seeking a novel perspective on problem-solving, a young adult on the cusp of a thrilling technological discovery, or an academic reader craving rigorous yet accessible instruction, this book speaks to you. Its clear explanations, coupled with its captivating storytelling, ensure that the complex world of reactive programming becomes an exciting, approachable frontier for all.

The strengths of this magnificent work are manifold:

Enchanting World-Building: The authors don't just explain reactive programming; they invite you to inhabit it. The metaphorical landscapes and allegorical characters make abstract concepts tangible and memorable.

Profound Emotional Resonance: By connecting technical challenges to human emotions, the book fosters a deeper understanding and a genuine appreciation for well-designed systems.

Accessible Brilliance: Complex topics are demystified through clear prose, engaging examples, and a consistent, encouraging tone that banishes any hint of intimidation.

Timeless Relevance: The principles of reactive programming are fundamental to modern software development. This book equips you with knowledge that will remain valuable for years to come, making it an investment in your intellectual future.

This is a book that demands to be savored, revisited, and shared. It's a rare gem that manages to be both profoundly informative and wonderfully entertaining. The authors have achieved something truly special – they have made learning about reactive programming feel like embarking on a grand and rewarding quest.

We offer a **heartfelt recommendation** for "Learning Reactive Programming With Java 8." It has a remarkable ability to capture hearts worldwide because it transcends the technical and touches upon the fundamental human desire to create, to innovate, and to build systems that delight and serve. It's a book that sparks not just understanding, but also a genuine passion for the craft.

In conclusion, do not let this opportunity pass you by. "Learning Reactive Programming With Java 8" is not just a book; it is a **timeless classic worth experiencing**. It is an invitation to a magical journey that will undoubtedly leave an indelible mark on your

understanding of software and your appreciation for elegant, powerful design. This book's **lasting impact** is assured, as it empowers readers with knowledge and inspires them with its sheer brilliance. We strongly encourage you to pick up a copy and discover the wonders that await!

Mastering Reactive Programming with Java and Project Reactor: Unlock the Secrets of Expert-Level Skills
Hands-On Reactive Programming in Spring 5
Reactive Programming with RxJava
Hands-On Reactive Programming with Clojure
Mastering Spring Reactive Programming for High Performance Web Apps
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Learning Reactive Programming with Java 8
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Hands-on Reactive Programming with Java 12
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unlock the full potential of your programming capabilities with mastering reactive programming with java and project reactor unlock the secrets of expert level skills this comprehensive guide is meticulously crafted for experienced developers seeking to delve deep into the world of reactive programming as modern applications demand higher responsiveness and scalability understanding the principles and mechanisms of reactive systems becomes not just advantageous but essential this book will equip you with the knowledge to design systems that are robust flexible and adept at handling the complex demands of today's dynamic environments dive into the intricacies of project reactor as each chapter systematically unravels the complexities of non blocking operations stream composition state management and error handling gain invaluable insights into optimizing data flow leveraging advanced operators and seamlessly integrating reactive and non reactive systems whether it's managing concurrency tuning performance or implementing robust error handling strategies this book offers a wealth of information best practices and expert guidance through a practical and analytical approach you will be empowered to transform theoretical concepts into innovative real world applications beyond foundational knowledge this book prepares you to tackle the challenges of testing and debugging reactive systems with confidence embrace advanced testing techniques explore performance tuning and learn to create scalable and maintainable solutions mastering reactive programming with java and project reactor is your essential companion in mastering the art and science of reactive programming paving the way for you to lead and innovate in this transformative field whether enhancing current systems or pioneering new solutions you'll have the expertise to drive success and innovation in your projects

today businesses need a new type of system that can remain responsive at all times this result is achievable and is called reactive which means it reacts to changes the development of such systems is a complex task requiring a deep understanding of the domain the developers of the spring framework help with the reactive version

in today's app driven era when programs are asynchronous and responsiveness is so vital reactive programming can help you write code that's more reliable easier to scale and better performing with this practical book java developers will first learn how to view problems in the reactive way and then build programs that leverage the best features of

this exciting new programming paradigm authors tomasz nurkiewicz and ben christensen include concrete examples that use the rxjava library to solve real world performance issues on android devices as well as the server you ll learn how rxjava leverages parallelism and concurrency to help you solve today s problems this book also provides a preview of the upcoming 2.0 release write programs that react to multiple asynchronous sources of input without descending into callback hell get to that aha moment when you understand how to solve problems in the reactive way cope with observables that produce data too quickly to be consumed explore strategies to debug and to test programs written in the reactive style efficiently exploit parallelism and concurrency in your programs learn about the transition to rxjava version 2

learn how to use rxclojure to deal with stateful computations key featuresleverage the features of functional reactive programming using clojurecreate dataflow based systems that are the building blocks of reactive programminguse different functional reactive programming frameworks techniques and patterns to solve real world problemsbook description reactive programming is central to many concurrent systems and can help make the process of developing highly concurrent event driven and asynchronous applications simpler and less error prone this book will allow you to explore reactive programming in clojure 1.9 and help you get to grips with some of its new features such as transducers reader conditionals additional string functions direct linking and socket servers hands on reactive programming with clojure starts by introducing you to functional reactive programming frp and its formulations as well as showing you how it inspired compositional event systems ces it then guides you in understanding reactive programming as well as learning how to develop your ability to work with time varying values thanks to examples of reactive applications implemented in different frameworks you ll also gain insight into some interesting reactive design patterns such as the simple component circuit breaker request response and multiple master replication finally the book introduces microservices based architecture in clojure and closes with examples of unit testing frameworks by the end of the book you will have gained all the knowledge you need to create applications using different reactive programming approaches what you will learnunderstand how to think in terms of time varying values and event streamscreate compose and transform observable sequences using reactive extensionsbuild a ces framework from scratch using core.async as its foundationdevelop a simple clojurescript game using reagentintegrate om and rxjs in a web applicationimplement

a reactive api in amazon services aws discover helpful approaches to backpressure and error handlingget to grips with futures and their applicationswho this book is for if you re interested in using reactive programming to build asynchronous and concurrent applications this is the book for you basic knowledge of clojure programming is necessary to understand the concepts covered in this book

tagline master reactive programming build solutions with reactive spring key features step by step approach to mastering reactor and spring webflux practical projects to apply and reinforce reactive programming skills real world solutions for building scalable and efficient reactive systems description mastering spring reactive programming for high performance apps is a comprehensive guide designed for developers looking to master reactive programming with spring webflux and reactor whether you re a beginner seeking to understand the fundamentals or an experienced developer aiming to enhance your asynchronous programming skills this book delivers a clear step by step approach to take you from basic concepts to advanced real world applications focused on practical real world implementations the book teaches you how to build optimize and maintain efficient reactive systems it guides you through creating scalable event driven applications handling complex asynchronous tasks and managing distributed systems using webflux libraries and the reactor framework by addressing real world challenges this book equips readers to improve system performance and resource management ensuring applications are built for high scalability and resilience beyond technical knowledge the book imparts industry best practices offering expert tips to help you avoid common pitfalls and apply reactive programming principles effectively by the end of this journey you ll not only understand the power of reactive architectures but also be ready to apply these skills to build scalable resilient solutions that solve real world problems making you a valuable asset in the competitive software development landscape what will you learn understand the core principles of reactive programming with spring master the reactor framework for building reactive applications utilize spring webflux for asynchronous programming and enhanced performance develop reactive web applications with webclient and reactive repositories implement messaging systems with reactive streams for real time communication apply testing debugging and monitoring techniques for reactive applications in production who is this book for this book is tailored for software developers seeking to understand reactive programming concepts in spring and the advantages of utilizing the reactive framework readers should have a basic understanding

of java programming and familiarity with object oriented programming principles prior experience with the spring framework and web development will be beneficial for grasping more advanced topics such as asynchronous processing and reactive systems

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dive into the dynamic world of reactive programming with reactive programming with rxjava and spring boot your comprehensive guide to developing responsive resilient and scalable applications this book provides an in depth exploration of reactive programming principles and their practical implementation using rxjava and spring boot two of the leading technologies revolutionizing application development throughout the chapters you ll gain a solid foundation in reactive programming starting from its conceptual framework to hands on coding examples learn how to harness the power of rxjava for managing asynchronous data streams with ease transforming filtering and combining data in a declaratively efficient manner discover how spring boot simplifies the development of reactive applications offering a seamless integration with rxjava and other reactive frameworks through spring webflux and r2dbc for database access reactive programming with rxjava and spring boot is meticulously crafted for java developers software architects and anyone passionate about modern application development whether you re looking to enhance your programming skills build high performance web applications or understand the nuances of reactive systems this book is an essential resource it walks you through real world examples best practices and common pitfalls providing you with the knowledge and tools to excel in the rapidly evolving landscape of reactive programming embrace the reactive paradigm and elevate your development expertise with reactive programming with rxjava and spring boot paving the way for building better software faster and more efficiently

manage your angular development using reactive programming growing in popularity and now an essential part of any professional web developer s toolkit reactive programming can enrich your development and make your code more efficient featuring a core application to explore and build yourself this book shows you how to utilize ngrx store as

a state management with redux pattern and how to utilize ngrx effects to define a better and more robust application architecture through working code examples you will understand every aspect of reactive programming with angular so that you ll be able to develop maintainable readable code reactive programming with angular and ngrx is ideal for developers already familiar with javascript angular or other languages and who are looking for more insight into their angular projects use this book to start mastering reactive programming today what you ll learnsee how the boilerplate and webpack work p pullconstruct components efficientlybr liliutilize ngrx extensions and rxjsbr liliorganize state management with reducers actions and side effectsbr li ulp who this book is for developers who are already familiar with javascript and angular and want to move onto more advanced development

leverage the power of reactive programming in php about this book develop an interesting multiplayer browser game written in rxjs and re implement it using rxphp enhance existing reactive applications by building a cli tool combining symfony console implement gearman and rabbit mq for asynchronous communication who this book is for this book is aimed at people with a solid knowledge of php and programming languages in general we also assume they have at least a little experience with other technologies such as javascript node js and others what you will learn how to work with the rxphp library and see what it offers via many examples use the rxphp library in combination with symfony console the different approaches to using symfony3 s event dispatcher component test your reactive php code using phpunit analyze php source code and apply a custom set of rules by building a cli tool in detail reactive programming helps us write code that is concise clear and readable combining the power of reactive programming and php one of the most widely used languages will enable you to create web applications more pragmatically php reactive programming will teach you the benefits of reactive programming via real world examples with a hands on approach you will create multiple projects showing rxphp in action alone and in combination with other libraries the book starts with a brief introduction to reactive programming clearly explaining the importance of building reactive applications you will use the rxphp library built a reddit cli using it and also re implement the symfony3 event dispatcher with rxphp you will learn how to test your rxphp code by writing unit tests moving on to more interesting aspects you will implement a web socket backend by developing a browser game you will learn to implement quite complex reactive systems while avoiding pitfalls such as circular

dependencies by moving the rxjs logic from the frontend to the backend the book will then focus on writing extendable rxphp code by developing a code testing tool and also cover using rxphp on both the server and client side of the application with a concluding chapter on reactive programming practices in other languages this book will serve as a complete guide for you to start writing reactive applications in php style and approach this book will teach readers how to build reactive applications in a step by step manner it will also present several examples of reactive applications implemented with different frameworks

discover how project reactor enhances the reactive programming paradigm and allows you to build scalable asynchronous applications key features use reactive apis flux and mono to implement reactive extensions create concurrent applications without the complexity of java s concurrent api understand techniques to implement event driven and reactive applications book description reactor is an implementation of the java 9 reactive streams specification an api for asynchronous data processing this specification is based on a reactive programming paradigm enabling developers to build enterprise grade robust applications with reduced complexity and in less time hands on reactive programming with reactor shows you how reactor works as well as how to use it to develop reactive applications in java the book begins with the fundamentals of reactor and the role it plays in building effective applications you will learn how to build fully non blocking applications and will later be guided by the publisher and subscriber apis you will gain an understanding how to use two reactive composable apis flux and mono which are used extensively to implement reactive extensions all of these components are combined using various operations to build a complete solution in addition to this you will get to grips with the flow api and understand backpressure in order to control overruns you will also study the use of spring webflux an extension of the reactor framework for building microservices by the end of the book you will have gained enough confidence to build reactive and scalable microservices what you will learn explore benefits of the reactive paradigm and the reactive streams api discover the impact of flux and mono implications in reactor expand and repeat data in stream processing get to grips with various types of processors and choose the best one understand how to map errors to make corrections easier create robust tests using testing utilities offered by reactor find the best way to schedule the execution of code who this book is for if you re looking to develop event and data driven applications easily with reactor this book is for you sound knowledge of java

fundamentals is necessary to understand the concepts covered in the book

discover the power of functional programming lazy evaluation monads concurrency and immutability to create succinct and expressive implementations key featuresget a solid understanding of how to apply functional programming concepts in typescriptexplore typescript runtime features such as event loop closures and prototypesgain deeper knowledge on the pros and cons of typescriptbook description functional programming is a powerful programming paradigm that can help you to write better code however learning functional programming can be complicated and the existing literature is often too complex for beginners this book is an approachable introduction to functional programming and reactive programming with typescript for readers without previous experience in functional programming with javascript typescript or any other programming language the book will help you understand the pros cons and core principles of functional programming in typescript it will explain higher order functions referential transparency functional composition and monads with the help of effective code examples using typescript as a functional programming language you ll also be able to brush up on your knowledge of applying functional programming techniques including currying laziness and immutability to real world scenarios by the end of this book you will be confident when it comes to using core functional and reactive programming techniques to help you build effective applications with typescript what you will learnunderstand the pros and cons of functional programming delve into the principles patterns and best practices of functional and reactive programming use lazy evaluation to improve the performance of applicationsexplore functional optics with ramda gain insights into category theory functional data structures such as functors and monads use functions as values so that they can be passed as arguments to other functionswho this book is for this book is designed for readers with no prior experience of functional programming with javascript typescript or any other programming language some familiarity with typescript and web development is a must to grasp the concepts in the book easily

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

build fault tolerant robust and distributed applications in scala key features understand and use the concepts of reactive programming to build distributed systems running on multiple nodes learn how reactive architecture reduces complexity throughout the development process get to grips with functional reactive programming and reactive microservices book description reactive programming is a scalable fast way to build applications and one that helps us write code that is concise clear and readable it can be used for many purposes such as guis robotics music and others and is central to many concurrent systems this book will be your guide to getting started with reactive programming in scala you will begin with the fundamental concepts of reactive programming and gradually move on to working with asynchronous data streams you will then start building an application using akka actors and extend it using the play framework you will also learn about reactive stream specifications event sourcing techniques and different methods to integrate akka streams into the play framework this book will also take you one step forward by showing you the advantages of the lagom framework while working with reactive microservices you will also learn to scale applications using multi node clusters and test secure and deploy your microservices to the cloud by the end of the book you will have gained the knowledge to build robust and distributed systems with scala and akka what you will learn understand the fundamental principles of reactive and functional programming develop applications utilizing features of the akka framework explore techniques to integrate scala akka and play together learn about reactive streams with real time use cases develop reactive applications with play scala akka and akka streams develop and deploy reactive microservices using the lagom framework and conductr who this book is for this book is for scala developers who would like to build fault tolerant scalable distributed systems no knowledge of reactive programming is required

learn how to institute reactive programming rp for your back end development with node

js up to now rp has most often been used in front end development but with its cutting edge approach you can also transform your back end programming reactive programming with node js will show you the paradigms of rp why you should use it and the variations available to you you will learn how to use the main libraries necessary to provide an enhanced development experience in node js including rxjs bacon js kefir js and highland js you will also create a custom library that provides a variety of key features and learn how to scale up a system developed using rp in node js ideal for back end developers with knowledge of node js or javascript this book enables you to get up and running with rp in node js and revolutionize your back end development what you ll learn review the variations of reactive programming use the main libraries that provide this type of development experience in node js create a custom library scale up a system developed using rp in node js who this book is for any back end developers who understand node js or are advanced enough to pick up the basics ideal for developers who have an interest in learning about this different programming paradigm that s being used more and more every day

reactive programming is a programming paradigm oriented toward data flows and the propagation of change programming with asynchronous data streams apps in recent times have an abundance of real time events of every kind that create a highly interactive experience for the user however the right tools are needed to manage these and reactive programming is the answer this course is a step by step guide to creating applications with java 12 by applying reactive programming you will get hands on experience each section will build on the previous one so that you will be able to make your app responsive and reliable by implementing reactive principles with java you ll also apply the best data structures and algorithms that optimize functions all using functional reactive programming resource description page

this book will teach you how to build robust asynchronous and event driven applications with ease about this book learn about java 9 s flow api reactive programming along with kafka and mockito and how these aspects are utilized by rxjava build fast and concurrent applications with ease without the complexity of java s concurrent api and shared states with the help of spring explore a wide variety of code examples to easily get used to all the features and tools provided by rxjavawho this book is forthis book targets existing java developers who want to understand reactive programming and build responsive and

resilient asynchronous applications using reactive stream implementations what you will learn understand the reactive manifesto grasp the reactive streams types introduced in java 9 in the form of the flow api use rxjava a reactive streams implementation to build asynchronous applications build responsiveness and resilience into applications using rxjava operators demonstrate the usage of hystrix a latency and fault tolerance library from netflix that uses rxjava implement reactive web applications using spring framework 5 and rxjavain detailreactive programming is an asynchronous programming model that helps you tackle the essential complexity that comes with writing such applications using reactive programming to start building applications is not immediately intuitive to a developer who has been writing programs in the imperative paradigm to tackle the essential complexity reactive programming uses declarative and functional paradigms to build programs this book sets out to make the paradigm shift easy this book begins by explaining what reactive programming is the reactive manifesto and the reactive streams specification it uses java 9 to introduce the declarative and functional paradigm which is necessary to write programs in the reactive style it explains java 9's flow api an adoption of the reactive streams specification from this point on it focuses on rxjava 2.0 covering topics such as creating transforming filtering combining and testing observables it discusses how to use java's popular framework spring to build event driven reactive applications you will also learn how to implement resiliency patterns using hystrix by the end you will be fully equipped with the tools and techniques needed to implement robust event driven reactive applications style and approachthis book is a tutorial about reactive programming in java using apis as well as the rxjava library packed with a lot of well described examples it explains reactive programming concepts in plain and readable language

delve into the dynamic realm of reactive programming with advanced reactive programming integrating rxjava with spring boot applications your definitive guide to crafting responsive resilient and scalable solutions this book offers an in depth exploration of advanced reactive programming concepts and their practical implementation using rxjava and spring boot to revolutionize modern application development gain a robust understanding of reactive programming progressing from foundational principles to practical coding applications harness rxjava's capabilities for managing asynchronous data streams enabling efficient data transformation filtering and combination explore how spring boot simplifies the creation of reactive applications

seamlessly integrating rxjava with cutting edge technologies such as spring webflux and r2dbc for optimal database interaction advanced reactive programming integrating rxjava with spring boot applications is expertly tailored for java developers software architects and technology enthusiasts aiming to master modern application development whether you re looking to elevate your programming skills design high performance web applications or grasp the intricacies of reactive systems this book is a vital resource it guides you through real world scenarios best practices and common challenges equipping you with the expertise to excel in the dynamic field of reactive programming embrace the reactive paradigm and enhance your development prowess with advanced reactive programming integrating rxjava with spring boot applications laying the foundation for building superior software with increased speed and efficiency

learn reactive programming in kotlin with rxjava the popularity of reactive programming continues to grow on an ever increasing number of platforms and languages rx lets developers easily and quickly build apps with code that can be understood by other rx developers even over different platforms not only will you learn how to use rxjava to create complex reactive applications on android you ll also see how to solve common application design issues by using rxjava finally you ll discover how to exercise full control over the library and leverage the full power of reactive programming in your apps who this book is for this book is for android developers who already feel comfortable with the android sdk and kotlin and want to dive deep into development with rxjava rxkotlin and rxandroid topics covered in reactive programming with kotlin getting started get an introduction to the reactive programming paradigm learn the terminology involved and see how to begin using rxjava in your projects event management learn how to handle asynchronous event sequences via two key concepts in rx observables and observers being selective see how to work with various events using tools such as filtering transforming combining and timing operators ui development rxjava and companion libraries make it easy to work with the ui of your apps providing a reactive approach to handling user events intermediate topics level up your rxjava knowledge with chapters on reactive networking error handling and schedulers advanced topics round out your rxjava education by learning about app architecture repositories and integrating rxjava with android jetpack and much much more by the end of the book you ll have hands on experience solving common issues in a reactive paradigm and you ll be well on your way to coming up with your own rx patterns and solutions

reactive programming with javascript build fast scalable event driven apps using rxjs observables and functional programming by rufus j andrews are you tired of messy async code struggling to scale your apps ready to finally master modern reactive development welcome to your step by step guide to writing clean efficient real time javascript using the power of rxjs functional programming and proven industry techniques in today s world of live updates real time user experiences and data that never stops flowing traditional code can t keep up but with reactive programming you ll build apps that are faster smarter and ready for the future this practical book will teach you how to master rxjs the go to library for reactive javascript handle data streams and events like a pro write scalable maintainable reactive code with confidence apply functional programming principles the right way avoid common pitfalls like memory leaks and messy callbacks build real time features live search chat apps notifications more integrate with popular frameworks react angular vue and node js real world projects included real time chat application live search filtering dashboard reactive data visualization whether you re a front end developer back end engineer or full stack professional this book gives you the skills to build real time event driven applications that users love while keeping your codebase clean predictable and ready to scale why developers love this book clear beginner friendly explanations perfect for those new to rxjs packed with real world examples and projects covers both front end and back end reactive programming written by rufus j andrews trusted tech educator and developer helps you stay competitive in the modern job market if you re ready to unlock the full power of modern javascript and build apps that react in real time this is your roadmap stop patching problems start building smarter with reactive programming click buy and grab your copy now your journey to scalable real time javascript starts here

harness reactive programming to build scalable and fault tolerant distributed systems using scala and akka about this book use the concepts of reactive programming to build distributed systems running on multiple nodes get to grips with the full range of akka features including the upcoming and cutting edge experimental modules a comprehensive coverage of the principles of frp with real world use cases to solve scalability issues who this book is for if you are a developer who is passionate about building fault tolerant scalable distributed applications using scala and akka then this book will give you a jump start you should be familiar with scala but no prior knowledge of akka and reactive programming is required what you will learn explore functional

programming using scala design an asynchronous non blocking shopping cart application using futures understand the akka actor model and the relationship between actors and threads use the actor supervision feature to build a fault tolerant and resilient application create your own distributed system framework using an akka cluster take a look under the hood to gain perspective on the akka engine see a comprehensive case study of a key value store with concurrent reads and writes model a finite state machine using state driven actors in detail today's web based applications need to scale quickly to tackle the demands of modern users reactive programming is the solution developed to ensure the fault tolerant and robust scaling that is essential for professional applications reactive programming in scala and akka provides a great platform to develop low latency resilient concurrent internet scale applications on the java virtual machine this comprehensive guide will help you get to grips with the concepts of reactive programming in order to build a robust distributed system in scala and akka written in two parts you will first take a walkthrough of the reactive asynchronous and functional concepts in scala before focusing on akka and getting to grips with the details of real world use cases begin with an introduction into functional reactive programming before moving on to writing asynchronous application with non blocking constructs in scala get familiar with the concept of actor based concurrency using akka and features such as akka remoting routing and persistence capabilities to build distributed applications learn to scale applications using a multi node akka cluster and unit test akka actors and get to grips with state machines and how to implement state driven actors using akka finally put your skills to the test with a case study where you will concurrently and asynchronously store and retrieve data from a key value store by progressively working through the akka concepts you will not only be able to write your own distributed system but also appreciate the hidden complexity within the akka ecosystem style and approach this comprehensive guide walks you through the basics of reactive programming in scala and akka explaining some of the most frequently used constructs to the most advanced features and taking you through building a full blown distributed system with the help of real world examples

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