Covers Play, Akka, and Reactive Streams

Reactive
Web Applications

Manuel Bernhardt
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Reactive Web Applications Manuel Bernhardt,2016-06-27 Summary Reactive Web Applications teaches web developers how to benefit from the reactive application architecture and presents hands on examples using the Play framework Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Reactive applications build on top of components that communicate asynchronously as they react to user and system events As a result they become scalable responsive and fault tolerant Java and Scala developers can use the Play Framework and the Akka concurrency toolkit to easily implement reactive applications without building everything from scratch About the Book Reactive Web Applications teaches web developers how to benefit from the reactive application architecture and presents hands on examples using Play Akka Scala and Reactive Streams This book starts by laying out the fundamentals required for writing functional and asynchronous applications and quickly introduces Play as a framework to handle the plumbing of your application The book alternates between chapters that introduce reactive ideas asynchronous programming with futures and actors managing distributed state with CQRS and practical examples that show you how to build these ideas into your applications What s Inside Reactive application architecture Basics of Play and Akka Examples in Scala Functional and asynchronous programming About Reader Description For readers comfortable programming with a higher level language such as Java or C and who can read Scala code No experience with Play or Akka needed About the Author Manuel Bernhardt is a passionate engineer author and speaker As a consultant he guides companies through the technological and organizational transformation to distributed computing Table of Contents PART 1 GETTING STARTED WITH REACTIVE WEB APPLICATIONS Did you say reactive Your first reactive web application Functional programming primer Quick introduction to Play PART 2 CORE CONCEPTS Futures Actors Dealing with state Responsive user interfaces PART 3 ADVANCED TOPICS Reactive Streams Deploying reactive Play applications Testing reactive web applications

Scala Reactive Programming Rambabu Posa,2018-02-28 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 Web 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   Hands-On Reactive Programming with Reactor Rahul Sharma,2018-09-29 Discover how project Reactor enhances the reactive programming paradigm and allows you to build scalable asynchronous applications Key FeaturesUse reactive APIs Flux and Mono to implement reactive extensionsCreate concurrent applications without the complexity of Java s concurrent APIUnderstand techniques to implement event driven and reactive applicationsBook 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 learnExplore benefits of the Reactive paradigm and the Reactive Streams APIDiscover the impact of Flux and Mono implications in ReactorExpand and repeat data in stream processingGet to grips with various types of processors and choose the best oneUnderstand how to map errors to make corrections easierCreate robust tests using testing utilities offered by ReactorFind the best way to schedule the execution of codeWho 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   **Mastering Functional Programming** Anatolii Kmetiuk,2018-08-31 Learn how functional programming can help you in deploying web servers and working with databases in a declarative and pure way Key Features Learn functional programming from scratch Program applications with side effects in a pure way Gain

expertise in working with array tools for functional programming Book Description In large projects it can get difficult keeping track of all the interdependencies of the code base and how its state changes at runtime Functional Programming helps us solve these problems It is a paradigm specifically designed to deal with the complexity of software development This book will show you how the right abstractions can reduce complexity and make your code easy to read and understand Mastering Functional Programming begins by touching upon the basics such as what lambdas are and how to write declarative code with the help of functions It then moves on to more advanced concepts such as pure functions and type classes the problems they aim to solve and how to use them in real world scenarios You will also explore some of the more advanced patterns in the world of functional programming such as monad transformers and Tagless Final In the concluding chapters you will be introduced to the actor model implement it in modern functional languages and explore the subject of parallel programming By the end of the book you will have mastered the concepts entailing functional programming along with object oriented programming OOP to build robust applications What you will learn Write reliable and scalable software based on solid foundations Explore the cutting edge of computer science research Effectively solve complex architectural problems in a robust way Avoid unwanted outcomes such as errors or delays and focus on business logic Write parallel programs in a functional style using the actor model Use functional data structures and collections in your day to day work Who this book is for If you are from an imperative and OOP background this book will guide you through the world of functional programming irrespective of which programming language you use   Introduction to Scala Programming Professional Level CPA John Kimani,Dr. James Scott,2023-06-17 Introduction to Scala Object Oriented Programming in Scala Functional Programming in Scala Collections and Pattern Matching Concurrency and Parallelism in Scala Building Applications with Scala Advanced Topics in Scala Collaborative Development with Scala   *Scala for Java Developers* Thomas Alexandre,2014-04-25 This step by step guide is full of easy to follow code taken from real world examples explaining the migration and integration of Scala in a Java project If you are a Java developer or a Java architect working in Java EE based solutions and want to start using Scala in your daily programming this book is ideal for you This book will get you up and running quickly by adopting a pragmatic approach with real world code samples No prior knowledge of Scala is required   **Mastering Scala** Cybellium,2023-09-26 Are you ready to dive into the world of advanced programming with confidence and expertise Mastering Scala is your gateway to unlocking the true power of the Scala programming language Whether you re an experienced developer seeking to expand your horizons or a programming enthusiast ready to embark on a transformative journey this comprehensive guide will equip you with the skills to develop elegant scalable and high performance software Key Features 1 In Depth Exploration of Scala Fundamentals Immerse yourself in the core concepts of Scala programming from its unique blend of object oriented and functional paradigms to its expressive syntax Build a strong foundation that enables you to tackle complex programming challenges 2 Functional

Programming Mastery Discover the beauty of functional programming in Scala Learn how to leverage higher order functions immutability and pattern matching to create clean maintainable code that is both concise and powerful 3 Concurrency and Parallelism Dive into Scala s concurrent and parallel programming capabilities Explore actors Futures and parallel collections to build responsive highly performant applications that excel in a multi core world 4 Advanced Data Structures and Algorithms Elevate your programming skills by mastering advanced data structures and algorithms in Scala From sets and maps to trees and graphs learn how to solve intricate problems using Scala s powerful abstractions 5 Building Robust Applications Explore best practices for structuring and organizing your Scala projects Gain insights into error handling testing and writing code that is not only functional but also robust and easy to maintain 6 Leveraging Scala s Ecosystem Maximize your productivity by exploring the vibrant ecosystem of Scala libraries and frameworks From web development to data analysis discover tools that will help you create software efficiently and effectively 7 Type System and Advanced Language Features Dive into Scala s sophisticated type system and explore advanced language features like implicits and type classes Craft expressive type safe code that reflects the elegance of Scala 8 Performance Optimization Master the art of optimizing Scala applications for top notch performance Learn profiling techniques memory management and concurrency tuning to ensure your software runs efficiently 9 Deployment and DevOps Navigate the landscape of deploying Scala applications to various environments Discover containerization and adopt DevOps practices that streamline your development to production pipeline Who This Book Is For Mastering Scala is an indispensable companion for developers of all skill levels who are passionate about mastering the Scala programming language Whether you re a novice programmer or an experienced coder eager to embrace Scala s unique features this book will guide you through the language s intricacies and empower you to create sophisticated high performance software   *Mastering Play Framework for Scala* Shiti Saxena,2015-05-29 This book is intended for those developers who are keen to master the internal workings of Play Framework to effectively build and deploy web related apps   <u>Reactive Programming with Scala and Akka</u> Prasanna Kumar Sathyanarayanan,Suraj Atreya,2016-02-29 Harness reactive programming to build scalable and fault tolerant distributed systems using Scala and AkkaAbout 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 ForIf 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 actorsIn DetailToday 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 approachThis 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 **Akka Cookbook** Hector Veiga Ortiz,Piyush Mishra,2017-05-26 Learn how to use the Akka framework to build effective applications in Scala About This Book Covers a discussion on Lagom the newest launched Akka framework that is built to create complex microservices easily The recipe approach of the book allows the reader to know important and independent concepts of Scala and Akka in a seamless manner Provides a comprehensive understanding of the Akka actor model and implementing it to create reactive web applications Who This Book Is For If you are a Scala developer who wants to build scalable and concurrent applications then this book is for you Basic knowledge of Akka will help you take advantage of this book What You Will Learn Control an actor using the ContolAware mailbox Test a fault tolerant application using the Akka test kit Create a parallel application using futures and agents Package and deploy Akka application inside Docker Deploy remote actors programmatically on different nodes Integrate Streams with Akka actors Install Lagom and create a Lagom project In Detail Akka is an open source toolkit that simplifies the construction of distributed and concurrent applications on the JVM This book will teach you how to develop reactive applications in Scala using the Akka framework This book will show you how to build concurrent scalable and reactive applications in Akka You will see how to create high performance applications extend applications build

microservices with Lagom and more We will explore Akka s actor model and show you how to incorporate concurrency into your applications The book puts a special emphasis on performance improvement and how to make an application available for users We also make a special mention of message routing and construction By the end of this book you will be able to create a high performing Scala application using the Akka framework Style and approach This highly practical recipe based approach will allow you to build scalable robust and reactive applications using the Akka framework **Reactive Messaging Patterns with the Actor Model** Vaughn Vernon,2015-07-13 USE THE ACTOR MODEL TO BUILD SIMPLER SYSTEMS WITH BETTER PERFORMANCE AND SCALABILITY Enterprise software development has been much more difficult and failure prone than it needs to be Now veteran software engineer and author Vaughn Vernon offers an easier and more rewarding method to succeeding with Actor model Reactive Messaging Patterns with the Actor Model shows how the reactive enterprise approach Actor model Scala and Akka can help you overcome previous limits of performance and scalability and skillfully address even the most challenging non functional requirements Reflecting his own cutting edge work Vernon shows architects and developers how to translate the longtime promises of Actor model into practical reality First he introduces the tenets of reactive software and shows how the message driven Actor model addresses all of them making it possible to build systems that are more responsive resilient and elastic Next he presents a practical Scala bootstrap tutorial a thorough introduction to Akka and Akka Cluster and a full chapter on maximizing performance and scalability with Scala and Akka Building on this foundation you ll learn to apply enterprise application and integration patterns to establish message channels and endpoints efficiently construct route and transform messages and build robust systems that are simpler and far more successful Coverage Includes How reactive architecture replaces complexity with simplicity throughout the core middle and edges The characteristics of actors and actor systems and how Akka makes them more powerful Building systems that perform at scale on one or many computing nodes Establishing channel mechanisms and choosing appropriate channels for each application and integration challenge Constructing messages to clearly convey a sender s intent in communicating with a receiver Implementing a Process Manager for your Domain Driven Designs Decoupling a message s source and destination and integrating appropriate business logic into its router Understanding the transformations a message may experience in applications and integrations Implementing persistent actors using Event Sourcing and reactive views using CQRS Find unique online training on Domain Driven Design Scala Akka and other software craftsmanship topics using the for comprehension website at forcomprehension com **Scala Functional Programming** Amara Hawthorn,2025-07-06 Unlock the full potential of Scala s functional programming paradigm to architect reactive fault tolerant and high performance systems Scala Functional Programming Building Reactive Systems with Akka and Streams is your definitive guide to building robust applications that thrive under concurrency distributed architecture and real time data flows This hands on project driven book walks you through the core principles of pure functional programming combining them with the actor based

concurrency model of Akka and the stream processing power of Akka Streams From modeling data immutably and applying monads effectively to handling backpressure and building event driven microservices this book equips developers with the tools to write elegant testable and reactive Scala code Ideal for intermediate to advanced developers this book offers deep dives into Building resilient actors with Akka Leveraging Akka Streams for real time data pipelines Writing pure functions higher order functions and leveraging type safety Embracing functional design patterns to model complex logic Creating responsive elastic and message driven architectures Whether you re modernizing legacy systems or creating next gen cloud native services this book provides the techniques and insights to build scalable systems that never break under pressure Elevate your Scala expertise Master the functional mindset Build reactive systems that scale   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 streamsand 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   **Scala Programming Projects** Mikael Valot,Nicolas Jorand,2018-09-29 Discover unique features and powerful capabilities of Scala Programming as you build projects in a wide range of domains Key FeaturesDevelop a range of Scala projects from web applications to big data analysisLeverage full power of modern web programming using Play FrameworkBuild real time data pipelines in Scala with a Bitcoin transaction analysis appBook Description Scala is a type safe JVM language that incorporates object oriented and functional programming OOP and FP aspects This book gets you started with essentials of software development by guiding you through various aspects of Scala programming helping you bridge the gap between learning and implementing You will learn about the unique features of Scala through diverse applications and experience simple yet powerful approaches for software development Scala Programming Projects will help you build a number of applications beginning with simple projects such as a financial independence calculator and advancing to other projects such as a shopping application and a Bitcoin transaction analyzer You will be able to use various Scala features such as its OOP and FP capabilities and learn how to write concise reactive and concurrent applications in a type safe manner You will also learn how to use top notch libraries such as Akka and Play and integrate Scala apps with Kafka Spark and Zeppelin along with deploying applications on a cloud platform By

the end of the book you will not only know the ins and outs of Scala but you will also be able to apply it to solve a variety of real world problems What you will learnBuild test and package code using Scala Build ToolDecompose code into functions classes and packages for maintainabilityImplement the functional programming capabilities of ScalaDevelop a simple CRUD REST API using the Play frameworkAccess a relational database using SlickDevelop a dynamic web UI using Scala jsSource streaming data using Spark Streaming and write a Kafka producerUse Spark and Zeppelin to analyze dataWho this book is for If you are an amateur programmer who wishes to learn how to use Scala this book is for you Knowledge of Java will be beneficial but not necessary to understand the concepts covered in this book   *Building Applications with Scala* Diego Pacheco,2017-02-28 Write modern scalable and reactive applications in ScalaAbout This Book Craft a completely reactive functional application from front end to back end Step by step instructions examples and hands on practices designed to help you learn the key secrets and intricacies of Scala app development Comprehensive coverage of all the most popular tools in the Scala ecosystemWho This Book Is ForIf you are a Java or JVM developer who wants to use Scala to build reactive functional applications for the JVM platform then this book is for you Prior knowledge of Java or functional programing would help No Scala knowledge is required What You Will Learn Use Akka to create a chat service for your app Equip yourself with the techniques and tools to build reports and build database persistence with Scala and Slick Develop a customer facing Rest API that makes use of Scala and Spray Make use of the Scala web development principles and scale up the architecture of your application Get familiar with the core principles and concepts of Functional Programming Use the Play framework to create models controllers and views Develop reactive backing frameworks by writing code with RxScala Discover what proper testing entails with Scala using behavior driven developmentIn DetailScala is known for incorporating both object oriented and functional programming into a concise and extremely powerful package However creating an app in Scala can get a little tricky because of the complexity This book will help you dive straight into app development by creating a real reactive and functional application We will provide you with practical examples and instructions using a hands on approach that will give you a firm grounding in reactive functional principles The book will take you through all the fundamentals of app development within Scala as you build an application piece by piece We ve made sure to incorporate everything you need from setting up to building reports and scaling architecture This book also covers the most useful tools available in the Scala ecosystem such as Slick Play and Akka and a whole lot more It will help you unlock the secrets of building your own up to date Scala application while maximizing performance and scalability   *Reactive Application Development* Duncan K. DeVore,Sean A. Walsh,2018-05-26 Summary Reactive Application Development is a hands on guide that teaches you how to build reliable enterprise applications using reactive design patterns Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications Foreword by Jonas Bon r Creator of Akka About the Technology Mission critical applications have to respond instantly to changes in load recover gracefully from failure and satisfy exacting

requirements for performance cost and reliability That s no small task Reactive designs make it easier to meet these demands through modular message driven architecture innovative tooling and cloud based infrastructure About the Book Reactive Application Development teaches you how to build reliable enterprise applications using reactive design patterns This hands on guide begins by exposing you to the reactive mental model along with a survey of core technologies like the Akka actors framework Then you ll build a proof of concept system in Scala and learn to use patterns like CQRS and Event Sourcing You ll master the principles of reactive design as you implement elasticity and resilience integrate with traditional architectures and learn powerful testing techniques What s Inside Designing elastic domain models Building fault tolerant systems Efficiently handling large data volumes Examples can be built in Scala or Java About the Reader Written for Java or Scala programmers familiar with distributed application designs About the Author Duncan DeVore Sean Walsh and Brian Hanafee are seasoned architects with experience building and deploying reactive systems in production Table of Contents PART 1 FUNDAMENTALS What is a reactive application Getting started with Akka Understanding Akka PART 2 BUILDING A REACTIVE APPLICATION Mapping from domain to toolkit Domain driven design Using remote actors Reactive streaming CQRS and Event Sourcing A reactive interface Production readiness   Learn Scala Programming Slava Schmidt,2018-10-31 A step by step guide in building high performance scalable applications with the latest features of Scala Key FeaturesDevelop a strong foundation in functional programming and Scala s Standard Library STL Get a detailed coverage of Lightbend Lagom the latest microservices framework from LightbendUnderstand the Akka framework and learn event based Programming with Scala Book Description The second version of Scala has undergone multiple changes to support features and library implementations Scala 2 13 with its main focus on modularizing the standard library and simplifying collections brings with it a host of updates Learn Scala Programming addresses both technical and architectural changes to the redesigned standard library and collections along with covering in depth type systems and first level support for functions You will discover how to leverage implicits as a primary mechanism for building type classes and look at different ways to test Scala code You will also learn about abstract building blocks used in functional programming giving you sufficient understanding to pick and use any existing functional programming library out there In the concluding chapters you will explore reactive programming by covering the Akka framework and reactive streams By the end of this book you will have built microservices and learned to implement them with the Scala and Lagom framework What you will learnAcquaint yourself with the new standard library of Scala 2 13Get to grips with the Grok functional paradigmsGet familiar with type system to express domain constraintsUnderstand the actor model and different Akka librariesGrasp the concept of building microservices using Lagom frameworkDeep dive into property based testing and its practical applicationsWho this book is for This book is for beginner to intermediate level Scala developers who would like to advance and gain knowledge of the intricacies of the Scala language expand their functional programming tools and explore actor based concurrency models

Play for Scala Peter Hilton,Erik Bakker,2013-10-03 Summary Play for Scala shows you how to build Scala based web applications using the Play 2 framework This book starts by introducing Play through a comprehensive overview example Then you ll look at each facet of a typical Play application both by exploring simple code snippets and by adding to a larger running example Along the way you ll deepen your knowledge of Scala as a programming language and work with tools like Akka About this Book Play is a Scala web framework with built in advantages Scala s strong type system helps deliver bug free code and the Akka framework helps achieve hassle free concurrency and peak performance Play builds on the web s stateless nature for excellent scalability and because it is event based and nonblocking you ll find it to be great for near real time applications Play for Scala teaches you to build Scala based web applications using Play 2 It gets you going with a comprehensive overview example It then explores each facet of a typical Play application by walking through sample code snippets and adding features to a running example Along the way you ll deepen your knowledge of Scala and learn to work with tools like Akka Written for readers familiar with Scala and web based application architectures No knowledge of Play is assumed Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications What s Inside Intro to Play 2 Play s MVC structure Mastering Scala templates and forms Persisting data and using web services Using Play s advanced features About the Authors Peter Hiltonv Erik Bakker and Francisco Canedo are engineers at Lunatech a consultancy with Scala and Play expertise They are contributors to the Play framework Table of Contents PART 1 GETTING STARTED Introduction to Play Your first Play application PART 2 CORE FUNCTIONALITY Deconstructing Play application architecture Defining the application s HTTP interface Storing data the persistence layer Building a user interface with view templates Validating and processing input with the forms API PART 3 ADVANCED CONCEPTS Building a single page JavaScript application with JSON Play and more Web services iteratees and WebSockets **Reactive Java 9** Manuel Vicente Vivo,2017 **Applied Akka Patterns** Michael Nash,Wade Waldron,2016-12-12 When it comes to big data processing we can no longer ignore concurrency or try to add it in after the fact Fortunately the solution is not a new paradigm of development but rather an old one With this hands on guide Java and Scala developers will learn how to embrace concurrent and distributed applications with the open source Akka toolkit You ll learn how to put the actor model and its associated patterns to immediate and practical use Throughout the book you ll deal with an analogous workforce problem how to schedule a group of people across a variety of projects while optimizing their time and skillsets This example will help you understand how Akka uses actors streams and other tools to stitch your application together Model software that reflects the real world with domain driven design Learn principles and practices for implementing individual actors Unlock the real potential of Akka with patterns for combining multiple actors Understand the consistency tradeoffs in a distributed system Use several Akka methods for isolating and dealing with failures Explore ways to build systems that support availability and scalability Tune your Akka application for performance with JVM tools and dispatchers

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Reactive Web Applications With Scala Play Akka And Reactive Streams Introduction

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