

Functional Programming

Second Edition



Michael Pilquist
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Forewords by Martin Odersky and Daniel Spiewak

Functional Programming Scala Paul Chiusano

Atul S. Khot



Functional Programming Scala Paul Chiusano:

Functional Programming in Scala Paul Chiusano,Runar Bjarnason,2014-09-01 Summary Functional Programming in Scala is a serious tutorial for programmers looking to learn FP and apply it to the everyday business of coding The book guides readers from basic techniques to advanced topics in a logical concise and clear progression In it you ll find concrete examples and exercises that open up the world of functional programming Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Functional programming FP is a style of software development emphasizing functions that don t depend on program state Functional code is easier to test and reuse simpler to parallelize and less prone to bugs than other code Scala is an emerging JVM language that offers strong support for FP Its familiar syntax and transparent interoperability with Java make Scala a great place to start learning FP About the Book Functional Programming in Scala is a serious tutorial for programmers looking to learn FP and apply it to their everyday work The book guides readers from basic techniques to advanced topics in a logical concise and clear progression In it you ll find concrete examples and exercises that open up the world of functional programming This book assumes no prior experience with functional programming Some prior exposure to Scala or Java is helpful What s Inside Functional programming concepts The whys and hows of FP How to write multicore programs Exercises and checks for understanding About the Authors Paul Chiusano and R nar Bjarnason are recognized experts in functional programming with Scala and are core contributors to the Scalaz library Table of Contents PART 1 INTRODUCTION TO FUNCTIONAL PROGRAMMING What is functional programming Getting started with functional programming in Scala Functional data structures Handling errors without exceptions Strictness and laziness Purely functional state PART 2 FUNCTIONAL DESIGN AND COMBINATOR LIBRARIES Purely functional parallelism Property based testing Parser combinators PART 3 COMMON STRUCTURES IN FUNCTIONAL DESIGN Monoids Monads Applicative and traversable functors PART 4 EFFECTS AND I O External effects and I O Local effects and mutable state Stream processing and incremental I O *Functional Programming in Kotlin* Marco Vermeulen,Rúnar Bjarnason,Paul Chiusano,2021-10-05 Functional Programming in Kotlin teaches you how to design and write Kotlin applications using typed functional programming Offering clear examples carefully presented explanations and extensive exercises it moves from basic subjects like types and data structures to advanced topics such as stream processing This book is based on the bestseller Functional Programming in Scala by R nar Bjarnason and Paul Chiusano **Functional Programming in Scala, Second Edition** Michael Pilquist,Paul Chiusano,Rúnar Bjarnasson,2023-06-06 Functional Programming in Scala has helped over 30 000 developers discover the power of functional programming You ll soon see why reviewers have called it mindblowing The book smooths the complexity curve of functional programming making it simple to understand the basics and intuitive to progress to more advanced topics Concrete examples and exercises show you FP in the real world and reveal how it can improve your everyday coding practices This second edition comes packed with the latest

standards of FP as well as full code updates to Scala 3 and its new language features

A Companion Booklet to Functional Programming in Scala Rúnar Bjarnason, Paul Chiusano, 2015-03-06 This full color booklet contains chapter notes hints solutions to exercises addenda and errata for the book Functional Programming in Scala by Paul Chiusano and Runar Bjarnason This material is freely available online but is compiled here as a convenient companion to the book itself All code is colorfully syntax highlighted

Functional Programming in Scala Michael Pilquist, Rúnar Bjarnason, Paul Chiusano, 2023 This international bestseller has been revised with new exercises annotations and full coverage of Scala 3 In Functional Programming in Scala Second Edition you will learn how to Recognize and write purely functional code Work with errors without using exceptions Work with state and concurrency Interact with functional structures that define common behaviors Write code that performs I O without sacrificing functional programming Functional Programming in Scala has helped over 30 000 developers discover the power of functional programming You ll soon see why reviewers have called it mindblowing The book smooths the complexity curve of functional programming making it simple to understand the basics and intuitive to progress to more advanced topics Concrete examples and exercises show you FP in the real world and reveal how it can improve your everyday coding practices This second edition comes packed with the latest standards of FP as well as full code updates to Scala 3 and its new language features About the Technology Functional code is easy to test reuse and parallelize and it s practically immune to whole categories of state related bugs With its strong functional features familiar syntax and seamless interoperability with Java there s no better place to start learning functional programming than the flexible Scala language About the Book In Functional Programming in Scala Second Edition you ll learn functional programming from first principles Hands on exercises and examples make it easy to start thinking and coding functionally This revised edition contains extensive exercise annotations to help you explore FP in depth along with steps to build your own functional libraries in Scala Once the functional lightbulb goes on you ll never look at coding the same way again What s Inside Recognize and write purely functional code Work with errors without using exceptions Work with state and concurrency Interact with functional structures that define common behaviors About the Reader For Java or Scala programmers No knowledge of functional programming required About the Authors Michael Pilquist is the lead maintainer of FS2 a functional streaming library and contributes to the Typelevel ecosystem Paul Chiusano and R nar Bjarnason are recognized experts in functional programming and authors of the first edition of Functional Programming with Scala Quotes Functional programming in Scala both the technique and the book have entrenched themselves firmly in the landscape of the language and ecosystem This new edition is an effective companion for the community inventing tomorrow From the Foreword by Daniel Spiewak Creator of Cats Effect Deepen your understanding of practical functional programming in Scala with this the ultimate guide Bill Venners Artima The first edition of FPiS was one of the turning points in my journey through the FP rabbit hole It was eye opening to be able to prove that one typeclass interface is equivalent to another The book s

second edition preserves the unique vision of FPiS to guide readers via practical coding idioms towards a mathematically rigorous approach in FP Sergei Winitzki Workday *Functional Programming in Scala* Páll Bjarnason, 2014 Functional Programming in Scala is a serious tutorial for programmers looking to learn FP and apply it to the everyday business of coding The book guides readers from basic techniques to advanced topics in a logical concise and clear progression In it you ll find concrete examples and exercises that open up the world of functional programming Functional Programming in Scala is a serious tutorial for programmers looking to learn FP and apply it to their everyday work The book guides readers from basic techniques to advanced topics in a logical concise and clear progression In it you ll find concrete examples and exercises that open up the world of functional programming Summary About the Technology Functional programming FP is a style of software development emphasizing functions that don t depend on program state Functional code is easier to test and reuse simpler to parallelize and less prone to bugs than other code Scala is an emerging JVM language that offers strong support for FP Its familiar syntax and transparent interoperability with Java make Scala a great place to start learning FP About the Book This book assumes no prior experience with functional programming Some prior exposure to Scala or Java is helpful What s Inside Functional programming concepts The whys and hows of FP How to write multicore programs Exercises and checks for understanding About the Authors Paul Chiusano and R nar Bjarnason are recognized experts in functional programming with Scala and are core contributors to the Scalaz library *Functional Programming in Scala Video Edition* Paul Chiusano, 2014 Functional Programming in Scala is a serious tutorial for programmers looking to learn FP and apply it to the everyday business of coding This Video Editions book guides readers from basic techniques to advanced topics in a logical concise and clear progression In it you ll find concrete examples that open up the world of functional programming Functional programming FP is a style of software development emphasizing functions that don t depend on program state Functional code is easier to test and reuse simpler to parallelize and less prone to bugs than other code Scala is an emerging JVM language that offers strong support for FP Its familiar syntax and transparent interoperability with Java make Scala a great place to start learning FP Resource description page *Functional and Reactive Domain Modeling* Debasish Ghosh, 2016-10-04 Summary Functional and Reactive Domain Modeling teaches you how to think of the domain model in terms of pure functions and how to compose them to build larger abstractions Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Traditional distributed applications won t cut it in the reactive world of microservices fast data and sensor networks To capture their dynamic relationships and dependencies these systems require a different approach to domain modeling A domain model composed of pure functions is a more natural way of representing a process in a reactive system and it maps directly onto technologies and patterns like Akka CQRS and event sourcing About the Book Functional and Reactive Domain Modeling teaches you consistent repeatable techniques for building domain models in reactive systems This book reviews the relevant concepts of

FP and reactive architectures and then methodically introduces this new approach to domain modeling As you read you ll learn where and how to apply it even if your systems aren t purely reactive or functional An expert blend of theory and practice this book presents strong examples you ll return to again and again as you apply these principles to your own projects What s Inside Real world libraries and frameworks Establish meaningful reliability guarantees Isolate domain logic from side effects Introduction to reactive design patterns About the Reader Readers should be comfortable with functional programming and traditional domain modeling Examples use the Scala language About the Author Software architect Debasish Ghosh was an early adopter of reactive design using Scala and Akka He s the author of DSLs in Action published by Manning in 2010 Table of Contents Functional domain modeling an introduction Scala for functional domain models Designing functional domain models Functional patterns for domain models Modularization of domain models Being reactive Modeling with reactive streams Reactive persistence and event sourcing Testing your domain model Summary core thoughts and principles

Domain-Specific Languages Andrzej Wąsowski,Thorsten Berger,2023-02-01 This textbook describes the theory and the pragmatics of using and engineering high level software languages also known as modeling or domain specific languages DSLs for creating quality software This includes methods design patterns guidelines and testing practices for defining the syntax and the semantics of languages While remaining close to technology the book covers multiple paradigms and solutions avoiding a particular technological silo It unifies the modeling the object oriented and the functional programming perspectives on DSLs The book has 13 chapters Chapters 1 and 2 introduce and motivate DSLs Chapter 3 kicks off the DSL engineering lifecycle describing how to systematically develop abstract syntax by analyzing a domain Chapter 4 addresses the concrete syntax including the systematic engineering of context free grammars Chapters 5 and 6 cover the static semantics with basic constraints as a starting point and type systems for advanced DSLs Chapters 7 Transformation 8 Interpretation and 9 Generation describe different paradigms for designing and implementing the dynamic semantics while covering testing and other kinds of quality assurance Chapter 10 is devoted to internal DSLs Chapters 11 to 13 show the application of DSLs and engage with simpler alternatives to DSLs in a highly distinguished domain software variability These chapters introduce the underlying notions of software product lines and feature modeling The book has been developed based on courses on model driven software engineering MDSE and DSLs held by the authors It aims at senior undergraduate and junior graduate students in computer science or software engineering Since it includes examples and lessons from industrial and open source projects as well as from industrial research practitioners will also find it a useful reference The numerous examples include code in Scala 3 ATL Alloy C F Groovy Java JavaScript Kotlin OCL Python QVT Ruby and Xtend The book contains as many as 277 exercises The associated code repository facilitates learning and using the examples in a course

Elixir in Action, Third Edition Saša Juric,2024-03-19 Elixir in Action Third Edition teaches you how to create distributed applications and server side systems using Elixir and the Erlang VM This Third Edition from Elixir expert Sa a Juri

is fully updated to include the latest features of Elixir 1.5 In it you'll master the foundations of the language discover how the OTP framework minimizes tedious boilerplate code and explore numerous examples that ensure you're learning hands on

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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

Akka in Action Raymond Roostenburg, Rob Williams, Robertus

Bakker,2016-09-20 Summary Akka in Action is a comprehensive tutorial on building message oriented systems using Akka The book takes a hands on approach where each new concept is followed by an example that shows you how it works how to implement the code and how to unit test it Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Akka makes it relatively easy to build applications in the cloud or on devices with many cores that efficiently use the full capacity of the computing power available It s a toolkit that provides an actor programming model a runtime and required support tools for building scalable applications About the Book Akka in Action shows you how to build message oriented systems with Akka This comprehensive hands on tutorial introduces each concept with a working example You ll start with the big picture of how Akka works and then quickly build and deploy a fully functional REST service out of actors You ll explore test driven development and deploying and scaling fault tolerant systems After mastering the basics you ll discover how to model immutable messages implement domain models and apply techniques like event sourcing and CQRS You l also find a tutorial on building streaming applications using akka stream and akka http Finally you l get practical advice on how to customize and extend your Akka system What s Inside Getting concurrency right Testing and performance tuning Clustered and cloud based applications Covers Akka version 2.4 About the Reader This book assumes that you re comfortable with Java and Scala No prior experience with Akka required About the Authors A software craftsman and architect Raymond Roostenburg is an Akka committer Rob Bakker specializes in concurrent back end systems and systems integration Rob Williams has more than 20 years of product development experience Table of Contents

Introducing Akka Up and running Test driven development with actors Fault tolerance Futures Your first distributed Akka app Configuration logging and deployment Structural patterns for actors Routing messages Message channels Finite state machines and agents System integration Streaming Clustering Actor persistence Performance tips Looking ahead

Scala Functional Programming Patterns Atul S. Khot,2015-12-29 Grok and perform effective functional programming in Scala About This Book Understand functional programming patterns by comparing them with the traditional object oriented design patterns Write robust safer and better code using the declarative programming paradigm An illustrative guide for programmers to create functional programming patterns with Scala Who This Book Is For If you have done Java programming before and have a basic knowledge of Scala and its syntax then this book is an ideal choice to help you to understand the context the traditional design pattern applicable and the Scala way Having previous knowledge of design patterns will help though it is not strictly necessary What You Will Learn Get to know about functional programming and the value Scala s FP idioms bring to the table Solve day to day programming problems using functional programming idioms Cut down the boiler plate and express patterns simply and elegantly using Scala s concise syntax Tame system complexity by reducing the moving parts Write easier to reason about concurrent code using the actor paradigm and the Akka library Apply recursive thinking and understand how to create solutions without mutation Reuse existing code to compose new behavior

Combine the object oriented and functional programming approaches for effective programming using Scala In Detail Scala is used to construct elegant class hierarchies for maximum code reuse and extensibility and to implement their behavior using higher order functions Its functional programming FP features are a boon to help you design easy to reason about systems to control the growing software complexities Knowing how and where to apply the many Scala techniques is challenging Looking at Scala best practices in the context of what you already know helps you grasp these concepts quickly and helps you see where and why to use them This book begins with the rationale behind patterns to help you understand where and why each pattern is applied You will discover what tail recursion brings to your table and will get an understanding of how to create solutions without mutations We then explain the concept of memorization and infinite sequences for on demand computation Further the book takes you through Scala s stackable traits and dependency injection a popular technique to produce loosely coupled software systems You will also explore how to currying favors to your code and how to simplify it by de construction via pattern matching We also show you how to do pipeline transformations using higher order functions such as the pipes and filters pattern Then we guide you through the increasing importance of concurrent programming and the pitfalls of traditional code concurrency Lastly the book takes a paradigm shift to show you the different techniques that functional programming brings to your plate This book is an invaluable source to help you understand and perform functional programming and solve common programming problems using Scala s programming patterns Style and approach This is a hands on guide to Scala s game changing features for programming It is filled with many code examples and figures that illustrate various Scala idioms and best practices *Programming in Scala* Martin

Odersky, Lex Spoon, Bill Venner, 2008 A comprehensive step by step guide **Programming Scala** Dean Wampler, 2021-05-26 Get up to speed on Scala the JVM JavaScript and natively compiled language that offers all the benefits of functional programming a modern object model and an advanced type system Packed with code examples this comprehensive book shows you how to be productive with the language and ecosystem right away You ll learn why Scala is ideal for building today s highly scalable data centric applications while maximizing developer productivity While Java remains popular and Kotlin has become popular Scala hasn t been sitting still This third edition covers the new features in Scala 3.0 with updates throughout the book *Programming Scala* is ideal for beginning to advanced developers who want a complete understanding of Scala s design philosophy and features with a thoroughly practical focus Program faster with Scala s succinct and flexible syntax Dive into basic and advanced functional programming techniques Build killer big data and distributed apps using Scala s functional combinators and tools like Spark and Akka Create concise solutions to challenging design problems with the sophisticated type system mixin composition with traits pattern matching and more

Scala for the Impatient Cay S. Horstmann, 2016-12-28 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Interest in the Scala

programming language continues to grow for many reasons Scala embraces the functional programming style without abandoning the object oriented paradigm and it allows you to write programs more concisely than in Java Because Scala runs on the JVM it can access any Java library and is interoperable with familiar Java frameworks Scala also makes it easier to leverage the full power of concurrency Written for experienced Java C or C programmers who are new to Scala or functional programming Scala for the Impatient Second Edition introduces the key Scala concepts and techniques you need in order to be productive quickly It is the perfect introduction to the language particularly for impatient readers who want to learn the fundamentals of Scala so they can start coding quickly It doesn't attempt to exhaustively list all the features of the language or make you suffer through long and contrived examples Instead carefully crafted examples and hands on activities guide you through well defined stages of competency from basic to expert This revised edition has been thoroughly updated for Scala 2.12 and reflects current Scala usage It includes added coverage of recent Scala features including string interpolation dynamic invocation implicit classes and futures Scala is a big language but you can use it effectively without knowing all of its details intimately This title provides precisely the information that you need to get started in compact easy to understand chunks Get started quickly with Scala's interpreter syntax tools and unique idioms Master core language features functions arrays maps tuples packages imports exception handling and more Become familiar with object oriented programming in Scala classes inheritance and traits Use Scala for real world programming tasks working with files regular expressions and XML Work with higher order functions and the powerful Scala collections library Leverage Scala's powerful pattern matching and case classes Create concurrent programs with Scala futures Implement domain specific languages Understand the Scala type system Apply advanced power tools such as annotations implicits and type classes

A Taste of Functional Programming in Scala Malay Mandal, 2017-05-29 An introductory book of Functional Programming using Scala Some core concepts discussed and some topics presented in an easy to understand manner using a lot of explained examples

Learning Functional Programming Jack Widman, 2022-08-11 Learn how to think and write code like a functional programmer With this practical guide software developers familiar with object oriented programming will dive into the core concepts of functional programming and learn how to use both functional and OOP features together on large or complex software projects Author Jack Widman uses samples from Java Python C Scala and JavaScript to help you gain a new perspective and a set of tools for managing the complexity in your problem domain You'll be able to write code that's simpler reusable easier to test and modify and more consistently correct This book also shows you how to use patterns from category theory to help bridge the gap between OOP and functional programming Learn functional programming fundamentals and explore the way functional programmers approach problems Understand how FP differs from object oriented and imperative programming Use a set of practical applicable design patterns that model reality in a functional way Learn how to incorporate FP and OOP features into software projects Apply functional design patterns appropriately and use them to write

correct robust and easily modifiable code

Scala: From a Functional Programming Perspective Vicenç

Torra, 2016-09-20 This book gives an introduction to the programming language Scala. It presents it from a functional programming perspective. The book explains with detail functional programming and recursivity and includes chapters on lazy and eager evaluation, streams, higher order functions including map, fold, reduce, and aggregate, and algebraic data types. The book also describes the object oriented aspects of Scala as they are a fundamental part of the language. In addition, the book includes a chapter on parallelism in Scala, giving an overview of the actor model.

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Functional Programming Scala Paul Chiusano Introduction

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