

# Functional Programming, Simplified: (Scala Edition)

# Functional Programming Simplified Scala Edition

**Alvin Alexander**



## Functional Programming Simplified Scala Edition

*Functional Programming, Simplified* Alvin Alexander, 2017-12-07 If you've had trouble trying to learn Functional Programming FP you're not alone In this book Alvin Alexander author of the Scala Cookbook and former teacher of Java and Object Oriented Programming OOP classes writes about his own problems in trying to understand FP and how he finally conquered it What he originally learned is that experienced FP developers are driven by two goals to use only immutable values and write only pure functions What he later learned is that they have these goals as the result of another larger goal they want all of their code to look and work just like algebra While that sounds simple it turns out that these goals require them to use many advanced Scala features which they often use all at the same time As a result their code can look completely foreign to novice FP developers As Mr Alexander writes When you first see their code it's easy to ask Why would anyone write code like this Mr Alexander answers that Why question by explaining the benefits of writing pure functional code Once you understand those benefits your motivation for learning FP he shares five rules for programming in the book All fields must be immutable val fields All functions must be pure functions Null values are not allowed Whenever you use an if you must also use an else You won't create OOP classes that encapsulate data and behavior instead you'll design data structures using Scala case classes and write pure functions that operate on those data structures In the book you'll see how those five simple rules naturally lead you to write pure functional code that reads like algebra He also shares one more Golden Rule for learning Always ask Why Lessons in the book include How and why to write only pure functions Why pure function signatures are much more important than OOP method signatures Why recursion is a natural tool for functional programming and how to write recursive algorithms Because the Scala for expression is so important to FP dozens of pages explain the details of how it works In the end you'll see that monads aren't that difficult because they're a natural extension of the Five Rules The book finishes with lessons on FP data modeling and two main approaches for organizing your pure functions As Mr Alexander writes In this book I take the time to explain all of the concepts that are used to write FP code in Scala As I learned from my own experience once you understand the Five Rules and the small concepts you can understand Scala FP Please note that because of the limits on how large a printed book can be the paperback version does not include all of the chapters that are in the Kindle eBook The following lessons are not in the paperback version Grandma's Cookies a story about pure functions The ScalaCheck lessons The Type Classes lessons The appendices Because those lessons didn't fit in the print version they have been made freely available online Alvin Alexander [alvinalexander.com](http://alvinalexander.com) wrote the popular Scala Cookbook for O'Reilly and also self-published two other books How I Sold My Business A Personal Diary and A Survival Guide for New Consultants

**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 Runar 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 simplified* Alvin Alexander, 2017

*Scala Cookbook* Alvin Alexander, 2021-08-10 Save time and trouble building object oriented functional and concurrent applications with Scala 3 The latest edition of this comprehensive cookbook is packed with more than 250 ready to use recipes and 700 code examples to help you solve the most common problems when working with Scala and its popular libraries Whether you're working on web big data or distributed applications this cookbook provides recipes based on real world scenarios for experienced Scala developers and for programmers just learning to use this JVM language Author Alvin Alexander includes practical solutions from his experience using Scala for highly scalable applications that support concurrency and distribution Recipes cover Strings numbers and control structures Classes methods objects traits packaging and imports Functional programming in a variety of situations Building Scala applications with sbt Collections covering Scala's wealth of classes and methods Actors and concurrency List array map set and more Files processes and command line tasks Web services and interacting with Java Databases and persistence data types and idioms

**Scala Cookbook** Alvin Alexander,2013-08 Save time and trouble when using Scala to build object oriented functional and concurrent applications With more than 250 ready to use recipes and 700 code examples this comprehensive cookbook covers the most common problems you ll encounter when using the Scala language libraries and tools It s ideal not only for experienced Scala developers but also for programmers learning to use this JVM language Author Alvin Alexander creator of DevDaily com provides solutions based on his experience using Scala for highly scalable component based applications that support concurrency and distribution Packed with real world scenarios this book provides recipes for Strings numeric types and control structures Classes methods objects traits and packaging Functional programming in a variety of situations Collections covering Scala s wealth of classes and methods Concurrency using the Akka Actors library Using the Scala REPL and the Simple Build Tool SBT Web services on both the client and server sides Interacting with SQL and NoSQL databases Best practices in Scala development

**Programming in Scala** Martin Odersky, Lex Spoon, Bill Venners,2008 A comprehensive step by step guide

**Scala for the Impatient** Cay S. Horstmann,2012-03-08 Scala is a modern programming language for the Java Virtual Machine JVM that combines the best features of object oriented and functional programming languages Using Scala you can write programs more concisely than in Java as well as leverage the full power of concurrency Since Scala runs on the JVM it can access any Java library and is interoperable with Java frameworks Scala for the Impatient concisely shows developers what Scala can do and how to do it In this book Cay Horstmann the principal author of the international best selling Core Java offers a rapid code based introduction that s completely practical Horstmann introduces Scala concepts and techniques in blog sized chunks that you can quickly master and apply Hands on activities guide you through well defined stages of competency from basic to expert Coverage includes Getting started quickly with Scala s interpreter syntax tools and unique idioms Mastering core language features functions arrays maps tuples packages imports exception handling and more Becoming familiar with object oriented programming in Scala classes inheritance and traits Using Scala for real world programming tasks working with files regular expressions and XML Working with higher order functions and the powerful Scala collections library Leveraging Scala s powerful pattern matching and case classes Creating concurrent programs with Scala actors Implementing domain specific languages Understanding the Scala type system Applying advanced power tools such as annotations implicits and delimited continuations Scala is rapidly reaching a tipping point that will reshape the experience of programming This book will help object oriented programmers build on their existing skills allowing them to immediately construct useful applications as they gradually master advanced programming techniques

**Learning Concurrent Programming in Scala** Aleksandar Prokopec,2014-11-28 This book is a must have tutorial for software developers aiming to write concurrent programs in Scala or broaden their existing knowledge of concurrency This book is intended for Scala programmers that have no prior knowledge about concurrent programming as well as those seeking to broaden their existing knowledge about concurrency Basic knowledge of the Scala programming language will be helpful Readers with a solid knowledge in another programming language such as Java should find this book easily accessible

**Hello, Scala** Alvin Alexander,2018-09-08 In his latest book Alvin Alexander author of the Scala Cookbook and Functional Programming Simplified brings you a quick simple introduction to the Scala programming language In under 250 fast paced pages Mr Alexander demonstrates that Scala is a beautiful modern expressive programming language The book is broken down into 55 short lessons to help you learn one topic at a time and also help you easily find what you need Lessons include An introduction to Scala s two types of variables val and var Scala control structures including powerful for expressions and match expressions An overview of Scala collections classes and methods Coverage of object oriented programming OOP including features of Scala classes and methods An introduction to functional programming FP including pure functions using functions as variables case classes match expressions functional error handling and more How to program in a modular style with traits How to build Scala projects with SBT How to write TDD and BDD unit tests with ScalaTest Programming concurrency with Akka actors and Scala futures To help get you started with Scala as fast as possible the book shares many source code examples including several open source Github projects that you can run immediately All examples in the book have been written with the latest Scala release version 2.12 and represent 2018 s best practices for Scala programming

**Programming Scala** Dean Wampler,Alex Payne,2014-12-04 Get up to speed on Scala the JVM language that offers all the benefits of a modern object model functional programming 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 and explains why Scala is ideal for today s highly scalable data centric applications that support concurrency and distribution This second edition covers recent language features with new chapters on pattern matching comprehensions and advanced functional programming You ll also learn about Scala s command line tools third party tools libraries and language aware plugins for editors and IDEs This book is ideal for beginning and advanced Scala developers alike Program faster with Scala s succinct and flexible syntax Dive into basic and advanced functional programming FP techniques Build killer big data apps using Scala s functional combinators Use traits for mixin composition and pattern matching for data extraction Learn the sophisticated type system that combines FP and object oriented programming concepts Explore Scala specific concurrency tools including Akka Understand how to develop rich domain specific languages Learn good design techniques for building scalable and robust Scala applications

**Learning Scala** Jason Swartz,2014-12-11 Why learn Scala You don t need to be a data scientist or distributed computing expert to appreciate this object oriented functional programming language This practical book provides a comprehensive yet approachable introduction to the language complete with syntax diagrams examples and exercises You ll start with Scala s core types and syntax before diving into higher order functions and immutable data structures Author Jason Swartz demonstrates why Scala s concise and expressive syntax make it an ideal language for Ruby or Python developers who want to improve their craft while its type safety and performance ensures that it s stable and fast enough for any application Learn about the core data types literals values and variables Discover how to think and write in expressions the foundation for Scala s syntax Write higher order functions that accept or return other functions Become familiar with immutable data structures and easily transform them with type safe and declarative operations Create custom infix operators to simplify existing operations or even to start your own domain specific language Build classes that compose one or more traits for full reusability or create new functionality by mixing them in at instantiation

*Grokking Functional Programming* Michal Plachta, 2023-02-07 There s no need to fear going functional This friendly lively and engaging guide is perfect for any perplexed programmer It lays out the principles of functional programming in a simple and concise way that will help you grok what FP is really all about In *Grokking Functional Programming* you will learn Designing with functions and types instead of objects Programming with pure functions and immutable values Writing concurrent programs using the functional style Testing functional programs Multiple learning approaches to help you grok each new concept If you ve ever found yourself rolling your eyes at functional programming this is the book for you Open up *Grokking Functional Programming* and you ll find functional ideas mapped onto what you already know as an object oriented programmer The book focuses on practical aspects from page one Hands on examples apply functional principles to everyday programming tasks like concurrency error handling and improving readability Plus puzzles and exercises let you think and practice what you re learning You ll soon reach an amazing aha moment and start seeing code in a completely new way About the technology Finally there s an easy way to learn functional programming This unique book starts with the familiar ideas of OOP and introduces FP step by step using relevant examples engaging exercises and lots of illustrations You ll be amazed at how quickly you ll start seeing software tasks from this valuable new perspective About the book *Grokking Functional Programming* introduces functional programming to imperative developers You ll start with small comfortable coding tasks that expose basic concepts like writing pure functions and working with immutable data Along the way you ll learn how to write code that eliminates common bugs caused by complex distributed state You ll also explore the FP approach to IO concurrency and data streaming By the time you finish you ll be writing clean functional code that s easy to understand test and maintain What s inside Designing with functions and types instead of objects Programming with pure functions and immutable values Writing concurrent programs using the functional style Testing functional programs About the reader For developers who know an object oriented language Examples in Java and Scala About the author Michal Plachta is an experienced software developer who regularly speaks and writes about creating maintainable applications Table of Contents Part 1 The functional toolkit 1 Learning functional programming 2 Pure functions 3 Immutable values 4 Functions as values Part 2 Functional programs 5 Sequential programs 6 Error handling 7 Requirements as types 8 IO as values 9 Streams as values 10 Concurrent programs Part 3 Applied functional programming 11 Designing functional programs 12 Testing functional programs

*TORUS 1 - Toward an Open Resource Using Services* Dominique Laffly, 2020-04-09 This book presented in three volumes examines environmental disciplines in relation to major players in contemporary science Big Data artificial intelligence and cloud computing Today there is a real sense of urgency regarding the evolution of computer technology the ever increasing volume of data threats to our climate and the sustainable development of our planet As such we need to reduce technology just as much as we need to bridge the global socio economic gap between the North and South between universal free access to data open data and free software open source In this book we pay particular attention to certain environmental subjects in order to enrich our understanding of cloud computing These subjects are erosion urban air pollution and atmospheric pollution in Southeast Asia melting permafrost causing the accelerated release of soil organic carbon in the atmosphere alert systems of environmental hazards such as forest fires prospective modeling of socio spatial practices and land use and web fountains of geographical data Finally this book asks the question in order to find a pattern in the data how do we move from a traditional computing model based world to pure mathematical research After thorough examination of this topic we conclude that this goal is both transdisciplinary and achievable

**The Science of Functional Programming (draft version)** Sergei Winitzki,

**An Introduction to Functional Programming Through Lambda Calculus** Greg Michaelson,2013-04-10 Well respected text for computer science students provides an accessible introduction to functional programming Cogent examples illuminate the central ideas and numerous exercises offer reinforcement Includes solutions 1989 edition

**Hands-on Scala Programming: Learn Scala in a Practical, Project-Based Way** Haoyi Li,2020-07-11 Hands on Scala teaches you how to use the Scala programming language in a practical project based fashion This book is designed to quickly teach an existing programmer everything needed to go from hello world to building production applications like interactive websites parallel web crawlers and distributed systems in Scala In the process you will learn how to use the Scala language to solve challenging problems in an elegant and intuitive manner

Functional Programming in Java Pierre-Yves Saumont,2017-01-18 Summary Functional Programming in Java teaches Java developers how to incorporate the most powerful benefits of functional programming into new and existing Java code You ll learn to think functionally about coding tasks in Java and use FP to make your applications easier to understand optimize maintain and scale Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Here s a bold statement learn functional programming and you ll be a better Java developer Fortunately you don t have to master every aspect of FP to get a big payoff If you take in a few core principles you ll see an immediate boost in the scalability readability and maintainability of your code And did we mention that you ll have fewer bugs Let s get started About the Book Functional Programming in Java teaches you how to incorporate the powerful benefits of functional programming into new and existing Java code This book uses easy to grasp examples exercises and illustrations to teach core FP principles such as referential transparency immutability persistence and laziness Along the way you ll discover which of the new functionally inspired features of Java 8 will help you most What s Inside Writing code that s easier to read and reason about Safer concurrent and parallel programming Handling errors without exceptions Java 8 features like lambdas method references and functional interfaces About the Reader Written for Java developers with no previous FP experience About the Author Pierre Yves Saumont is a seasoned Java developer with three decades of experience designing and building enterprise software He is an R D engineer at Alcatel Lucent Submarine Networks Table of Contents What is functional programming Using functions in Java Making Java more functional Recursion corecursion and memoization Data handling with lists Dealing with optional data Handling errors and exceptions Advanced list handling Working with laziness More data handling with trees Solving real problems with advanced trees Handling state mutation in a functional way Functional input output Sharing mutable state with actors Solving common problems functionally



Scala in Action Nilanjan Raychaudhuri,2013-04-08 Summary Scala in Action is a comprehensive tutorial that introduces Scala through clear explanations and numerous hands on examples Because Scala is a rich and deep language it can be daunting to absorb all the new concepts at once This book takes a how to approach explaining language concepts as you explore familiar programming challenges that you face in your day to day work About the Technology Scala runs on the JVM and combines object orientation with functional programming It s designed to produce succinct type safe code which is crucial for enterprise applications Scala implements Actor based concurrency through the amazing Akka framework so you can avoid Java s messy threading while interacting seamlessly with Java About this Book Scala in Action is a comprehensive tutorial that introduces the language through clear explanations and numerous hands on examples It takes a how to approach explaining language concepts as you explore familiar programming tasks You ll tackle concurrent programming in Akka learn to work with Scala and Spring and learn how to build DSLs and other productivity tools You ll learn both the language and how to use it Experience with Java is helpful but not required Ruby and Python programmers will also find this book accessible What s Inside A Scala tutorial How to use Java and Scala open source libraries How to use SBT Test driven development Debugging Updated for Scala 2.10 Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Author Nilanjan Raychaudhuri is a skilled developer speaker and an avid polyglot programmer who works with Scala on production systems Table of Contents PART 1 SCALA THE BASICS Why Scala Getting started OOP in Scala Having fun with functional data structures Functional programming PART 2 WORKING WITH SCALA Building web applications in functional style Connecting to a database Building scalable and extensible components Concurrency programming in Scala Building confidence with testing PART 3 ADVANCED STEPS Interoperability between Scala and Java Scalable and distributed applications using Akka

*Functional Programming in Kotlin* Marco Vermeulen,Rúnar Bjarnason,Paul Chiusano,2021-10-05 Functional Programming in Kotlin is a reworked version of the bestselling Functional Programming in Scala with all code samples instructions and exercises translated into the powerful Kotlin language In this authoritative guide you ll take on the challenge of learning functional programming from first principles and start writing Kotlin code that s easier to read easier to reuse better for concurrency and less prone to bugs and errors about the technology Kotlin is a new JVM language designed to interoperate with Java and offer an improved developer experience for creating new applications It s already a top choice for writing web services and Android apps Although it preserves Java s OO roots Kotlin really shines when you adopt a functional programming mindset By learning the core principles and practices of functional programming outlined in this book you ll start writing code that s easier to read easier to test and reuse better for concurrency and less prone to bugs about the book Functional Programming in Kotlin is a serious tutorial for programmers looking to learn FP and apply it to the everyday business of coding Based on the bestselling Functional Programming in Scala this book guides intermediate Java and Kotlin programmers 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 The book will deliver practical mastery of FP using Kotlin and a valuable perspective on program design that you can apply to other languages what s inside Functional programming techniques for real world applications Write combinator libraries Identify common structures and idioms in functional design Code for simplicity modularity and fewer bugs about the reader For intermediate Kotlin and Java developers No experience with functional programming is required about the author Marco Vermeulen has almost two decades of programming experience on the JVM with much of that time spent on functional programming using Scala and Kotlin R nar Bjarnason and Paul Chiusano are the authors of Functional Programming in Scala on which this book is based They are internationally recognized experts in functional programming and the Scala programming language

Grokking Simplicity Eric Normand, 2021-05-18 Distributed across servers difficult to test and resistant to modification modern software is complex Grokking Simplicity is a friendly practical guide that will change the way you approach software design and development It introduces a unique approach to functional programming that explains why certain features of software are prone to complexity and teaches you the functional techniques you can use to simplify these systems so that they re easier to test and debug Available in PDF ePub kindle and liveBook formats coming soon about the technology Even experienced developers struggle with software systems that sprawl across distributed servers and APIs are filled with redundant code and are difficult to reliably test and modify Adopting ways of thinking derived from functional programming can help you design and refactor your codebase in ways that reduce complexity rather than encouraging it Grokking Simplicity lays out how to use functional programming in a professional environment to write a codebase that s easier to test and reuse has fewer bugs and is better at handling the asynchronous nature of distributed systems about the book In Grokking Simplicity you ll learn techniques and more importantly a mindset that will help you tackle common problems that arise when software gets complex Veteran functional programmer Eric Normand guides you to a crystal clear understanding of why certain features of modern software are so prone to complexity and introduces you to the functional techniques you can use to simplify these systems so that they re easier to read test and debug Through hands on examples exercises and numerous self assessments you ll learn to organize your code for maximum reusability and internalize methods to keep unwanted complexity out of your codebase Regardless of the language you re using the ways of thinking in this book will help recognize problematic code and tame even the most complex software what s inside Apply functional programming principles to reduce codebase complexity Work with data transformation pipelines for code that s easier to test and reuse Tools for modeling time to simplify asynchrony 60 exercises and 100 questions to test your knowledge about the reader For experienced programmers Examples are in JavaScript about the author Eric Normand has been a functional programmer since 2001 and has been teaching functional programming online and in person since 2007 Visit [LispCast.com](http://LispCast.com) to see more of his credentials

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