

A comprehensive step-by-step guide

Programming in

# Scala

Fourth Edition



Updated for Scala 2.13

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# Programming In Scala Martin Odersky

**Mikael Valot, Nicolas Jorand**



Programming In Scala Martin Odersky

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

*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

**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

*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 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

*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

**Introduction to the Art of Programming Using Scala** Mark C. Lewis, 2012-11-05 With its flexibility for programming both small and large projects Scala is an ideal language for teaching beginning programming Yet there are no textbooks on Scala currently available for the CS1 CS2 levels Introduction to the Art of Programming Using Scala presents many concepts from CS1 and CS2 using a modern JVM based language that works we

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

**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

Programming in Scala, 4th Edition Martin Odersky, Lex Spoon, Bill Venners, 2019 Programming in Scala Fourth Edition is the definitive book on Scala the popular language for the Java Platform that blends object oriented and functional programming concepts into a unique and powerful tool for developers Coauthored by the designer of the Scala language this authoritative book will teach you one step at a time the Scala language and the ideas behind it The book is carefully crafted to help you learn The first few chapters will give you enough of the basics that you can already start using Scala for simple tasks The entire book is organized so that each new concept builds on concepts that came before a series of steps that promises to help you master the Scala language and the important ideas about programming that Scala embodies A comprehensive tutorial and reference for Scala this book covers the entire language and important libraries

**Get Programming with Scala** Daniela Sfregola,2021-10-05 The perfect starting point for your journey into Scala and functional programming Summary In Get Programming in Scala you will learn Object oriented principles in Scala Express program designs in functions Use types to enforce program requirements Use abstractions to avoid code duplication Write meaningful tests and recognize code smells Scala is a multi style programming language for the JVM that supports both object oriented and functional programming Master Scala and you ll be well equipped to match your programming approach to the type of problem you re dealing with Packed with examples and exercises Get Programming with Scala is the perfect starting point for developers with some OO knowledge who want to learn Scala and pick up a few FP skills along the way Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Scala developers are in high demand This flexible language blends object oriented and functional programming styles so you can write flexible easy to maintain code Because Scala runs on the JVM your programs can interact seamlessly with Java libraries and tools If you re comfortable writing Java this easy to read book will get you programming with Scala fast About the book Get Programming with Scala is a fast paced introduction to the Scala language covering both Scala 2 and Scala 3 You ll learn through lessons quizzes and hands on projects that bring your new skills to life Clear explanations make Scala s features and abstractions easy to understand As you go you ll learn to write familiar object oriented code in Scala and also discover the possibilities of functional programming What s inside Apply object oriented principles in Scala Learn the core concepts of functional programming Use types to enforce program requirements Use abstractions to avoid code duplication Write meaningful tests and recognize code smells About the reader For developers who know an OOP language like Java Python or C No experience with Scala or functional programming required About the author Daniela Sfregola is a Senior Software Engineer and a Scala user since 2013 She is an active contributor to the Scala Community a public speaker at Scala conferences and meetups and a maintainer of open source projects Table of Contents Unit 0 HELLO SCALA Unit 1 THE BASICS Unit 2 OBJECT ORIENTED FUNDAMENTALS Unit 3 HTTP SERVER Unit 4 IMMUTABLE DATA AND STRUCTURES Unit 5 LIST Unit 6 OTHER COLLECTIONS AND ERROR HANDLING Unit 7 CONCURRENCY Unit 8 JSON DE SERIALIZATION

**Programming in Scala, Third Edition** Martin Odersky,2016 Taking a step by step tutorial approach to teaching you Scala this exciting book introduces functional programming from the practitioner s perspective and describes advanced language features that can make you a better more productive developer

**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

**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

**Software Engineering from Scratch** Jason Lee Hodges,2019-10-15 Learn software engineering from scratch from installing and setting up your development environment to navigating a terminal and building a model command line operating system all using the Scala programming language as a medium The demand for software engineers is growing exponentially and with this book you can start your journey into this rewarding industry even with no prior programming experience Using Scala a language known to contain everything and the kitchen sink you ll begin coding on a gentle learning curve by applying the basics of programming such as expressions control flow functions and classes You ll then move on to an overview of all the major programming paradigms You ll finish by studying software engineering concepts such as testing and scalability data structures algorithm design and analysis and basic design patterns With Software Engineering from Scratch as your navigator you can get up to speed on the software engineering industry develop a solid foundation of many of its core concepts and develop an understanding of where to invest your time next What You Will Learn Use Scala even with no prior knowledge Demonstrate general Scala programming concepts and patterns Begin thinking like a software engineer Work on every level of the software development cycle Who This Book Is For Anyone who wants to learn about software engineering no prior programming experience required

**A Beginner's Guide to Scala, Object Orientation and Functional Programming** John Hunt,2018-03-02 Scala is now an established programming language developed by Martin Oderskey and his team at the EPFL The name Scala is derived from Scala Language Scala is a multi paradigm language incorporating object oriented approaches with functional programming Although some familiarity with standard computing concepts is assumed such as the idea of compiling a program and executing this compiled from etc and with basic procedural language concepts such as variables and allocation of values to these variables the early chapters of the book do not assume any familiarity with object orientation nor with functional programming These chapters also step through other concepts with which the reader may not be familiar such as list processing From this background the book provides a practical introduction to both object and functional approaches using Scala These concepts are introduced through practical experience taking the reader beyond the level of the language syntax to the philosophy and practice of object oriented development and functional programming Students and those actively involved in the software industry will find this comprehensive introduction to Scala invaluable

*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

**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

**Programming in Scala, Fifth Edition** Martin Odersky, Lex Spoon, Bill Venners, Frank Sommers, 2021 This book emphasis on the popular language for the Java platform that blends object oriented and functional programming concepts into a unique and powerful tool for developers



Inside the Java Virtual Machine Bill Venners, 1999-01-01 A manual on the Java 1.2 virtual machine This new edition contains a new chapter providing a tutorial on using native methods with the JNI Java Native Interface specification The CD ROM contains source code examples from the book interactive illustrations Java Development Kit and a resources Web site

## Whispering the Secrets of Language: An Mental Journey through **Programming In Scala Martin Odersky**

In a digitally-driven world where monitors reign supreme and immediate transmission drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within phrases frequently go unheard. Yet, located within the pages of **Programming In Scala Martin Odersky** a fascinating fictional prize pulsing with raw emotions, lies an exceptional journey waiting to be undertaken. Penned by a talented wordsmith, that enchanting opus attracts viewers on an introspective trip, gently unraveling the veiled truths and profound affect resonating within the fabric of each and every word. Within the mental depths of this touching evaluation, we will embark upon a heartfelt exploration of the book is core themes, dissect their charming writing model, and fail to the effective resonance it evokes strong within the recesses of readers hearts.

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