

# Programming In Scala

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a comprehensive step by step guide

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 foreword by daniel spiewak 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 with 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 author michael pilquist is the lead maintainer of fs2 a functional streaming library and contributes to the typelevel ecosystem paul chiusano and rúnar bjarnason are recognized experts in functional programming and authors of the first edition of functional programming with scala table of contents part 1 introduction to functional programming 1 what is functional programming 2 getting started with functional programming in scala 3 functional data structures 4 handling errors without exceptions 5 strictness and laziness 6 purely functional state part 2 functional design and combinator libraries 7 purely functional parallelism 8 property based testing 9 parser combinators part 3 common structures in functional design 10 monoids 11 monads 12 applicative and traversable functors part 4 effects and i o 13 external effects and i o 14 local effects and mutable state 15 stream processing and incremental i o

if you build your scala application through test driven development you ll quickly see the advantages of testing before you write production code this hands on book shows you how to create tests with scalatest and the specs2 two of the best testing frameworks available and how to run your tests in the simple build tool sbt designed specifically for scala projects by building a sample digital jukebox application you ll discover how to isolate your tests from large subsystems and networks with mocking code and how to use the scalacheck library for automated specification based testing if you re familiar with scala ruby or python this book is for you get an overview of test driven development start a simple project with sbt and create tests before you write code dive into sbt s basic commands interactive mode packaging and history use scalatest both in the command line and with sbt and learn how to incorporate junit and testng work with the specs2 framework including specification styles matchers dsls and data tables understand mocking by using java frameworks easymock and mockito and the scala only framework scalamock automate testing by using scalacheck to generate fake data

scala is a highly expressive concise and scalable language it is also the most prominent method of the new and exciting methodology known as object functional programming in this book the authors show how scala grows to the needs of the programmer whether professional or hobbyist they teach scala with a step by step approach and explain how to exploit the full power of the industry proven jvm technology readers can then dive into specially chosen design challenges and implementation problems inspired by the trials of real world software engineering it also helps readers to embrace the power of static typing and automatic type inference in addition the book shows how to use the dual object and functional oriented natures combined at scala s core and so write code that is less boilerplate giving a genuine increase in productivity

scala is a multi paradigm general purpose scripting language it is a completely object oriented programming language that supports a functional programming technique this book is a detailed guide for beginners to understand scala concise and easy to understand mastering scala a beginner s guide covers a comprehensive understanding of scala and its components libraries and advance concepts to help readers quickly advance with the necessary information this book provides functional approaches for solving queries using scala the fundamental principles of scala explained here are helpful to beginner and intermediate users interested in learning this highly technical and diverse language key features follows a hands on approach and offers practical lessons and tutorials related to scala includes detailed tutorials meant for beginners to scala discusses scala in depth to help build robust knowledge

learn the art of building intricate modern scalable and concurrent applications using scala about this book make the most of scala by understanding its philosophy and harnessing the power of multicores get acquainted with cutting edge technologies in the field of concurrency through practical real world applications get this step by step guide packed with pragmatic examples who this book is for if you are a scala programmer with no prior knowledge about concurrent programming or seeking to broaden your existing knowledge about concurrency this book is for you basic knowledge of the scala programming language will be helpful also if you have a solid knowledge in another programming language such as java you should find this book easily accessible what you will learn get to grips with the fundamentals of concurrent programming on modern multiprocessor systems build high performance concurrent systems from simple low level concurrency primitives express asynchrony in concurrent computations with futures and promises seamlessly accelerate sequential programs by using data parallel collections design safe scalable and easy to comprehend in memory transactional data models transparently create distributed applications that scale across multiple machines integrate different concurrency frameworks together in large applications develop and implement scalable and easy to understand concurrent applications in scala 2 12 in detail scala is a modern multiparadigm programming language designed to express common programming patterns in a concise elegant and type safe way scala smoothly integrates the features of object oriented and functional languages in this second edition you will find updated coverage of the scala 2 12 platform the scala 2 12 series targets java 8 and requires it for execution the book starts by introducing you to the foundations of concurrent programming on the jvm outlining the basics of the java memory model and then shows some of the classic building blocks of concurrency such as the atomic variables thread pools and concurrent data structures along with the caveats of traditional concurrency the book then walks you through different high level concurrency abstractions each tailored toward a specific class of programming tasks while touching on the latest advancements of async programming capabilities of scala it also covers some useful patterns and idioms to use with the techniques described finally the book presents an overview of when to use which concurrency library and demonstrates how they all work together and then presents new exciting approaches to building concurrent and distributed systems style and approach the book provides a step by step introduction to concurrent programming it focuses on easy to understand examples that are pragmatic and applicable to real world applications different topics are approached in a bottom up fashion gradually going from the simplest foundations to the most advanced features

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 rúnar 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 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

this book is intended for the intermediate scala programmer who is interested in functional programming and works mainly on the web service backend side ideally she has experience with libraries like akka http and slick which are in heavy use in that area however maybe you have wondered if we can't do better even though aforementioned projects are battle tested and proven the answer to this can be found in this book which is intended to be read from cover to cover in the given order within the book the following libraries will be used cats cats effect 4s doobie refined fs2 tapir monocle and probably others this edition includes a chapter about migrating the project to scala 3 which includes all the nasty issues that we tend to run into if we touch code after a longer time code and book source can be found in the author's github account

master the fundamentals of scala and understand its emphasis on functional programming that sets it apart from java this book will help you translate what you already know in java to scala to start your functional programming journey learn scala is split into four parts a tour of scala a comparison between java and scala scala specific features and functional programming idioms and finally a discussion about adopting scala in existing java teams and

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