

# Programming In Scala

Programming in Scala  
Functional Programming in Scala, Second Edition  
Steps in Scala  
Testing in Scala  
Learning Concurrent Programming in Scala  
Mastering Scala  
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a comprehensive step by step guide

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

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

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 testing 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

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

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

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

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stream processing and incremental i o

write efficient clean and reusable code with scala

about this book

unleash the power of scala and apply it in the real world

increase your efficiency by leveraging the power of creational structural behavioural and functional design patterns

build object oriented and functional applications quickly and effectively

who this book is for

if you want to increase your understanding of scala and apply it to real life application development then this book is for you

we've also designed the book to be used as a quick reference guide while creating applications

previous scala programming knowledge is expected

what you will learn

immerse yourself in industry standard design patterns

structural creational and behavioral

to create extraordinary applications

feel the power of traits and their application in scala

implement abstract and self types and build clean design patterns

build complex entity relationships using structural design patterns

create applications faster by applying functional design patterns in detail

scala has become increasingly popular in many different it sectors

the language is exceptionally feature rich which helps developers write less code and get faster results

design patterns make developer's lives easier by helping them write great software that is easy to maintain

runs efficiently and is valuable to the company or people concerned

you will learn about the various features of scala and be able to apply well known industry proven design patterns in your work

the book starts off by focusing on some of the most interesting features of scala while using practical real world examples

we will also cover the popular gang of four design patterns and show you how to incorporate functional patterns effectively

by the end of this book you will have enough knowledge and understanding to quickly assess problems and come up with elegant solutions

style and approach the design patterns in the book

will be explained using real world step by step examples for each design pattern there will be hints about when to use it and when to look for something more suitable this book can also be used as a practical guide showing you how to leverage design patterns effectively

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 your programming with scala fast 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

scala programming is a general purpose computer language that supports both object oriented and functional styles of programming on a larger scale scala is a strong static type of programming language and is influenced by the java programming language one of the best similarities of scala and java is that you can code scala just the same way that you code java it is also possible to use a lot of java libraries within scala along with many of its third party libraries scala has become one of the most in demand technology among developers and is working its way through today s technology learn about apache spark from cloudera spark training and excel in your career as a scala specialist here are some of the topics which would give you a brief explanation of scala why scala the biggest strength of scala is its flexibility in defining abstractions one of the important components of the scala language is scala ide scala integrated development environment and it is used to connect to the eclipse java tool this way the eclipse features can explore with the scala ide scala is designed in such a way that it can inter operate well with jre java runtime environment and the net framework the code written in scala is easier to test and reuse the parallelization becomes simpler and there are lesser bugs in the whole program scala programming follows a top down approach each of the programs is broken down into multiple chunks and each can be processed in parallel thus speeding up the process and also improving the

efficiency

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 legacy projects after reading and using this tutorial you ll come away with the skills in scala to kick start your productivity with this growing popular language what you ll learn tour scala and learn the basic syntax constructs and how to use the repl translate java syntax that you already know into scala learn what scala offers over and above java become familiar with functional programming concepts and idioms gain tips and advice useful when transitioning existing java projects to scala who this book is for java developers looking to transition to scala no prior experience necessary in scala

learn how to write scalable and concurrent programs in scala a language that grows with you key features get a grip on the functional features of the scala programming language understand and develop optimal applications using object oriented and functional scala constructs learn reactive principles with scala and work with the akka framework book description scala is a general purpose programming language that supports both functional and object oriented programming paradigms due to its concise design and versatility scala s applications have been extended to a wide variety of fields such as data science and cluster computing you will learn to write highly scalable concurrent and testable programs to meet everyday software requirements we will begin by understanding the language basics syntax core data types literals variables and more from here you will be introduced to data structures with scala and you will learn to work with higher order functions scala s powerful collections framework will help you get the best out of immutable data structures and utilize them effectively you will then be introduced to concepts such as pattern matching case classes and functional programming features from here you will learn to work with scala s object oriented features going forward you will learn about asynchronous and reactive programming with scala where you will be

introduced to the akka framework finally you will learn the interoperability of scala and java after reading this book you ll be well versed with this language and its features and you will be able to write scalable concurrent and reactive programs in scala what you will learn get to know the reasons for choosing scala its use and the advantages it provides over other languages bring together functional and object oriented programming constructs to make a manageable application master basic to advanced scala constructs test your applications using advanced testing methodologies such as tdd select preferred language constructs from the wide variety of constructs provided by scala make the transition from the object oriented paradigm to the functional programming paradigm write clean concise and powerful code with a functional mindset create concurrent scalable and reactive applications utilizing the advantages of scala who this book is for this book is for programmers who choose to get a grip over scala to write concurrent scalable and reactive programs no prior experience with any programming language is required to learn the concepts explained in this book knowledge of any programming language would help the reader understanding concepts faster though

learn how to write efficient clean and reusable code with scala key features unleash the power of scala and apply it in the real world to build scalable and robust applications learn about using and implementing creational structural behavioral and functional design patterns in scala learn how to build scalable and extendable applications efficiently book description design patterns make developers lives easier by helping them write great software that is easy to maintain runs efficiently and is valuable to the company or people concerned you ll learn about the various features of scala and will be able to apply well known industry proven design patterns in your work the book starts off by focusing on some of the most interesting and latest features of scala while using practical real world examples we will be learning about ide s and aspect oriented programming we will be looking into different components in scala we will also cover the popular gang of four design patterns and show you how to incorporate functional patterns effectively the book ends with a practical example that demonstrates how the presented material can be combined in real life applications you ll learn the necessary concepts to build enterprise grade applications by the end of this book you ll have enough



knowledge and understanding to quickly assess problems and come up with elegant solutions what you will learn immerse yourself in industry standard design patterns structural creational and behavioral to create extraordinary applications see the power of traits and their application in scala implement abstract and self types and build clean design patterns build complex entity relationships using structural design patterns create applications faster by applying functional design patterns who this book is for if you want to increase your understanding of scala and apply design patterns to real life application development then this book is for you prior knowledge of scala language is assumed expected

scala programming is a general purpose computer language that supports both object oriented and functional styles of programming on a larger scale scala is a strong static type of programming language and is influenced by the java programming language one of the best similarities of scala and java is that you can code scala just the same way that you code java it is also possible to use a lot of java libraries within scala along with many of its third party libraries scala has become one of the most in demand technology among developers and is working its way through today s technology learn about apache spark from cloudera spark training and excel in your career as a scala specialist here are some of the topics which would give you a brief explanation of scala why scala the biggest strength of scala is its flexibility in defining abstractions one of the important components of the scala language is scala ide scala integrated development environment and it is used to connect to the eclipse java tool this way the eclipse features can explore with the scala ide scala is designed in such a way that it can inter operate well with jre java runtime environment and the net framework the code written in scala is easier to test and reuse the parallelization becomes simpler and there are lesser bugs in the whole program scala programming follows a top down approach each of the programs is broken down into multiple chunks and each can be processed in parallel thus speeding up the process and also improving the efficiency

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

introduction to scala object oriented programming in scala functional programming in scala collections and pattern matching concurrency and parallelism in scala building applications with scala advanced topics in scala collaborative development with scala

learn the art of building intricate modern scalable and concurrent applications using scalaabout 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 with a particular focus on the jvm concurrency model 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 an updated coverage of the scala 2.12 platform the scala 2.12 series targets java 8 and requires it for execution it 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 it 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 the techniques described finally the book presents an overview of when to use which concurrency library and demonstrates how they all work together

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