Programming In Scala

Programming in ScalaFunctional Programming in Scala, Second EditionApplied Functional Programming in ScalaTesting in ScalaSteps in ScalaLearning Concurrent Programming in ScalaMastering Play Framework for ScalaFunctional Programming in ScalaScala Design PatternsGet Programming with ScalaScala ProgrammingArchaeologiaScala Functional Programming PatternsScala for Java DevelopersScala Design PatternsLearning Scala ProgrammingScalaCatalogue of Printed BooksProgramming in ScalaReactive Programming with Scala and Akka Martin Odersky Michael Pilquist Virendra Kumar Mishra Daniel Hinojosa Christos K. K. Loverdos Aleksandar Prokopec Shiti Saxena Paul Chiusano Ivan Nikolov Daniela Sfregola Claudia Alves Atul S. Khot Toby Weston Ivan Nikolov Vikash Sharma Emma William British Museum Martin Odersky Prasanna Kumar Sathyanarayanan

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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

description functional programming is transforming how we build robust scalable and maintainable software by prioritizing clarity and predictability it emphasizes what to compute by defining expressions that map values to other values and focuses on how to achieve a result through a sequence of statements that change program state this book explores core functional principles like immutability pure functions and referential transparency you will gain a deep understanding of the mathematical underpinnings through category theory concepts like functors and monads and then apply these practically using scala functional features and leading libraries such as cats and zio the book also covers handling effects and i o advanced functional patterns and using specialized tools to build functional web database and streaming solutions with real examples and patterns it shows how these ideas can simplify code improve testability and increase system resilience by the end of this book you will have a theoretical understanding and practical proficiency in building high quality maintainable applications using functional programming in scala what you will learn implement scala higher order functions currying and option either understand functors monads and their category theory relevance utilize cats type classes for extensible functional programming build scalable applications using fp patterns manage side effects and i o functionally using effect systems real world use of functional programming who this book is for this book is for software engineers developers and architects seeking to write more composable testable and expressive code readers should have a basic understanding of programming concepts but no prior functional language experience is required table of contents 1 fundamentals of functional programming 2 implementation of category theory 3 introduction to scala 4 understanding cats 5 understanding zio 6 effects implementation in pure way 7 functional pattern implementation 8 functional tools 9 implementation in functional way 10 db implementation in functional way 11 functional streams for scala 12 case study on functional toy e commerce site

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

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

this book is intended for those developers who are keen to master the internal workings of play framework to effectively build and deploy web related apps

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

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

grok and perform effective functional programming in scala about this book understand functional programming patterns by comparing them with the traditional object oriented design patterns write robust safer and better code using the declarative programming paradigm an illustrative guide for programmers to create functional programming patterns with scala who this book is for if you have done java programming before and have a basic knowledge of scala and its syntax then this book is an ideal choice to help you to understand the context the traditional design pattern applicable and the scala way having previous knowledge of design patterns will help though it is not strictly necessary what you will learn get to know about functional programming and the value scala s fp idioms bring to the table solve day to day programming problems using functional programming idioms cut down the boiler plate and express patterns simply and elegantly using scala s concise syntax tame system complexity by reducing the moving parts write easier to reason about concurrent code using the actor paradigm and the akka library apply recursive thinking and understand how to create solutions without mutation reuse existing code to compose new behavior combine the object oriented and functional programming approaches for effective programming using scala in detail scala is used to construct elegant class hierarchies for maximum code reuse and extensibility and to implement their behavior using higher order functions its functional programming fp features are a boon to help you design easy to reason about systems to control the growing software complexities knowing how and where to apply the many scala techniques is challenging looking at scala best practices in the context of what you already know helps you grasp these concepts quickly and helps you see where and why to use them this book begins with the rationale behind patterns to help you understand where and why each pattern is applied you will discover what tail recursion brings to your table and will get an understanding of how to create solutions without mutations we then explain the concept of memorization and infinite sequences for on demand computation further the book takes you through scala s stackable traits and dependency injection a popular technique to produce loosely coupled software systems you will also explore how to currying favors to your code and how to simplify

it by de construction via pattern matching we also show you how to do pipeline transformations using higher order functions such as the pipes and filters pattern then we guide you through the increasing importance of concurrent programming and the pitfalls of traditional code concurrency lastly the book takes a paradigm shift to show you the different techniques that functional programming brings to your plate this book is an invaluable source to help you understand and perform functional programming and solve common programming problems using scala s programming patterns style and approach this is a hands on guide to scala s game changing features for programming it is filled with many code examples and figures that illustrate various scala idioms and best practices

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 gaintips 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 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

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

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

harness reactive programming to build scalable and fault tolerant distributed systems using scala and akkaabout this book use the concepts of reactive programming to build distributed systems running on multiple nodes get to grips with the full range of akka features including the upcoming and cutting edge experimental modules a comprehensive coverage of the principles of frp with real world use cases to solve scalability issues who this book is forif you are a developer who is passionate about building fault tolerant scalable distributed applications using scala and akka then this book will give you a jump start you should be familiar with scala but no prior knowledge of akka and reactive programming is required what you will learn explore functional programming using scala design an asynchronous non blocking shopping cart application using futures understand the akka actor model and the relationship between actors and threads use the

actor supervision feature to build a fault tolerant and resilient application create your own distributed system framework using an akka cluster take a look under the hood to gain perspective on the akka engine see a comprehensive case study of a key value store with concurrent reads and writes model a finite state machine using state driven actorsin detailtoday s web based applications need to scale quickly to tackle the demands of modern users reactive programming is the solution developed to ensure the fault tolerant and robust scaling that is essential for professional applications reactive programming in scala and akka provides a great platform to develop low latency resilient concurrent internet scale applications on the java virtual machine this comprehensive guide will help you get to grips with the concepts of reactive programming in order to build a robust distributed system in scala and akka written in two parts you will first take a walkthrough of the reactive asynchronous and functional concepts in scala before focusing on akka and getting to grips with the details of real world use cases begin with an introduction into functional reactive programming before moving on to writing asynchronous application with non blocking constructs in scala get familiar with the concept of actor based concurrency using akka and features such as akka remoting routing and persistence capabilities to build distributed applications learn to scale applications using a multi node akka cluster and unit test akka actors and get to grips with state machines and how to implement state driven actors using akka finally put your skills to the test with a case study where you will concurrently and asynchronously store and retrieve data from a key value store by progressively working through the akka concepts you will not only be able to write your own distributed system but also appreciate the hidden complexity within the akka ecosystem style and approachthis comprehensive guide walks you through the basics of reactive programming in scala and akka explaining some of the most frequently used constructs to the most advanced features and taking you through building a full blown distributed system with the help of real world examples

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