Programming In Scala

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Chiusano Michael Pilquist Michael Pilquist Slava Schmidt Vidisha Gupta Dean Wampler Vicen□ Torra Martin Odersky P□ll Bjarnason Daniela Sfregola Aleksandar Prokopec Mikael Valot Peter Jones Malay Mandal Martin Odersky Bhim P. Upadhyaya Cay S. Horstmann Martin Odersky Mark C. Lewis

a comprehensive step by step guide

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 r□nar 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 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 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 in 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 authors michael pilquist is the lead maintainer of fs2 a functional streaming library and contributes to the typelevel ecosystem paul chiusano and r□nar bjarnason are recognized experts in functional programming and authors of the first edition of functional programming with scala quotes functional programming in scala both the technique and the book have entrenched themselves firmly in the landscape of the language and ecosystem this new edition is an effective companion for the community inventing tomorrow from the foreword by daniel spiewak creator of cats effect deepen your understanding of practical functional programming in scala with this the ultimate guide bill venners artima the first edition of fpis was one of the turning points in my journey through the fp rabbit hole it was eye opening to be able to prove that one typeclass interface is equivalent to another the book s second edition preserves the unique vision of fpis to guide readers via practical coding idioms towards a mathematically rigorous approach in fp sergei winitzki workday

a step by step guide in building high performance scalable applications with the latest features of scala key featuresdevelop a strong foundation in functional programming and scala s standard library stl get a detailed coverage of lightbend lagom the latest microservices framework from lightbendunderstand the akka framework and learn event based programming with scala book description the second version of scala has undergone multiple changes to support features and library implementations scala 2 13 with its main focus on modularizing the standard library and simplifying collections brings with it a host of updates learn scala programming addresses both technical and architectural changes to the redesigned standard library and collections along with covering in depth type systems and first level support for functions you will discover how to leverage implicits as a primary mechanism for building type classes and look at different ways to test scala code you will also learn about abstract building blocks used in functional programming giving you sufficient understanding to pick and use any existing functional programming library out there in the concluding chapters you will explore reactive programming by covering the akka framework and reactive streams by the end of this book you will have built microservices and learned to implement them with the scala and lagom framework what you will learnacquaint yourself with the new standard library of scala 2 13get to grips with the grok functional paradigmsget familiar with type system to express domain constraintsunderstand the actor model and different akka librariesgrasp the concept of building microservices using lagom frameworkdeep dive into property based testing and its practical applicationswho this book is for this book is for beginner to intermediate level scala developers who would like to advance and gain knowledge of the intricacies of the scala language expand their functional programming tools and explore actor based concurrency models

scala is one of the trendings languages to learn and once learned it becomes super easy to play with functional programming along with an object oriented paradigm this book mostly covers scala basic and some advanced concepts it

also covers how scala has adopted functional programming in this book one will find more examples than theories and concepts that will help readers to understand the concept easily apart from basic scala concepts you shall learn how to program in scala with deep diving into the object oriented and functional approach of solving problems using scala this book contains live runnable examples for each concept explained one doesn t need to search in google or waste time on searching different unrelated sources for learning the concept of scala summary or key points covered scala basic conceptsscala functional and advance conceptslive runnable examples for each conceptquestion and answers for learning

learn how to be more productive with scala a new multi paradigm language for the java virtual machine jvm that integrates features of both object oriented and functional programming with this book you ll discover why scala is ideal for highly scalable component based applications that support concurrency and distribution programming scala clearly explains the advantages of scala as a jvm language you ll learn how to leverage the wealth of java class libraries to meet the practical needs of enterprise and internet projects more easily packed with code examples this book provides useful information on scala s command line tools third party tools libraries and available language aware plugins for editors and ides learn how scala s succinct and flexible code helps you program faster discover the notable improvements scala offers over java s object model get a concise overview of functional programming and learn how scala s support for it offers a better approach to concurrency know how to use mixin composition with traits pattern matching concurrency with actors and other essential features take advantage of scala s built in support for xml learn how to develop domain specific languages understand the basics for designing test driven scala applications

this book gives an introduction to the programming language scala it presents it from a functional programming perspective

the book explains with detail functional programming and recursivity and includes chapters on lazy and eager evaluation streams higher order functions including map fold reduce and aggregate and algebraic data types the book also describes the object oriented aspects of scala as they are a fundamental part of the language in addition the book includes a chapter on parallelism in scala giving an overview of the actor model

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 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 summary 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 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 r□nar bjarnason are recognized experts in functional programming with scala and are core contributors to the scalaz library

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

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

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

immerse yourself in the evolution of functional programming with scala functional programming mastering advanced concepts and techniques an essential guide for software developers eager to command scala and elevate their coding prowess whether you re an intermediate scala developer or a seasoned programmer in the functional paradigm this book offers a thorough exploration of advanced functional programming concepts techniques and patterns all meticulously framed through the scala programming language within these pages you ll delve into core functional programming principles such as immutability referential transparency higher order functions and typeclasses the book progresses to cover specialized topics including error handling concurrency and functional data structures providing practical examples and exercises to

solidify your understanding advanced topics like monads functors and implicits are demystified equipping you with the tools necessary to write concise robust and efficient code scala functional programming mastering advanced concepts and techniques is more than just a programming book it s an in depth journey designed to arm you with the capabilities to write superior scala code whether your goal is to build scalable web applications system utilities or simply broaden your grasp of scala s functional features this book is an invaluable resource that will guide you through the intricacies of functional programming with clarity and precision unlock the full potential of scala and transform your software development approach with this indispensable guide

an introductory book of functional programming using scala some core concepts discussed and some topics presented in an easy to understand manner using a lot of explained examples

this reader friendly textbook presents a concise and easy to follow introduction to scala scala is an ideal first programming language which permits programming in multiple paradigms and enables developers to be more productive with modern computing infrastructures such as distributed environments topics and features provides review questions and problem solving exercises with solutions in each chapter inspired by real world applications addresses each topic in a self contained manner highlighting how scala can be evolved and grown according to the developer s needs presents examples from a broad range of different application domains including consumer electronics online payment retail vehicle manufacturing and healthcare encourages an innovation oriented mind set and the development of practical saleable skills draws from the author s extensive experience in industrial software development academic research and university teaching this accessible and hands on guide will embolden professional software engineers to make the switch to scala instructors teaching

introductory programming courses will also find this textbook popular among their students

this is the ebook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book interest in the scala programming language continues to grow for many reasons scala embraces the functional programming style without abandoning the object oriented paradigm and it allows you to write programs more concisely than in java because scala runs on the jvm it can access any java library and is interoperable with familiar java frameworks scala also makes it easier to leverage the full power of concurrency written for experienced java c or c programmers who are new to scala or functional programming scala for the impatient second edition introduces the key scala concepts and techniques you need in order to be productive quickly it is the perfect introduction to the language particularly for impatient readers who want to learn the fundamentals of scala so they can start coding quickly it doesn t attempt to exhaustively list all the features of the language or make you suffer through long and contrived examples instead carefully crafted examples and hands on activities guide you through well defined stages of competency from basic to expert this revised edition has been thoroughly updated for scala 2 12 and reflects current scala usage it includes added coverage of recent scala features including string interpolation dynamic invocation implicit classes and futures scala is a big language but you can use it effectively without knowing all of its details intimately this title provides precisely the information that you need to get started in compact easy to understand chunks get started quickly with scala s interpreter syntax tools and unique idioms master core language features functions arrays maps tuples packages imports exception handling and more become familiar with object oriented programming in scala classes inheritance and traits use scala for real world programming tasks working with files regular expressions and xml work with higher order functions and the powerful scala collections library leverage scala s powerful pattern matching and case classes create concurrent programs

with scala futures implement domain specific languages understand the scala type system apply advanced power tools such as annotations implicits and type classes

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

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

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