Programming In Scala

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a comprehensive step by step guide

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 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

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 e 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

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 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 function programming part 2 working with scala building web applications in functional style connecting to a database building s extensible components concurrency programming in scala building confidence with testing part 3 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 exampleswho this book is forif 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 12in detailscala 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 ou 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

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 forew

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 r□nar 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

supervised and unsupervised machine learning made easy in scala with this quick start guide key featuresconstruct and deploy machine learning systems that learn from your data and give accurate predictionsunleash the power of spark ml along with popular machine learning algorithms to solve complex tasks in scala solve hands on problems by combining popular neural network architectures such as lstm and cnn using scala with deeplearning4j librarybook description scala is a highly scal object oriented nature and functional programming concepts that make it easy to build scalable and complex big data applications this book is a handy guide for machine learning developers and data scientists who want to develop and train effective machine learning models in scala the book starts with an introduction to machine learning while covering deep learning and machine learning basics it

then explains how to use scala based ml libraries to solve classification and regression problems using linear regression generalized linear regression logistic regression support vector machine and naïve bayes algorithms it also covers tree based ensemble techniques for solving both classification and regression problems moving ahead it covers unsupervised learning techniques such as dimensionality reduction clustering and recommender systems finally it provides a brief overview of deep learning using a real life example in scala what you will learnget acquainted with jvm based machine learning libraries for scala such as spark ml and deeplearning4jlearn dataframe and spark sql for analyzing structured and unstructured dataunderstand supervised and unsupervised learning techniques with best practices and pitfallslearn classification and regression analysis with linear regression logistic regression naïve bayes support vector machine and tree based ensemble techniques learn effective ways of clustering analysis with dimensionality reduction techniqueslearn recommender systems with collaborative filtering approachdelve into deep learning and neural network architectureswho this book is for this book is for machine learning developers looking to train machine learning models in scala without spending too much time and effort some fundamental knowledge of scala programming and some basics of statistics and linear algebra is all you need to get started with this book

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

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FAQs

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