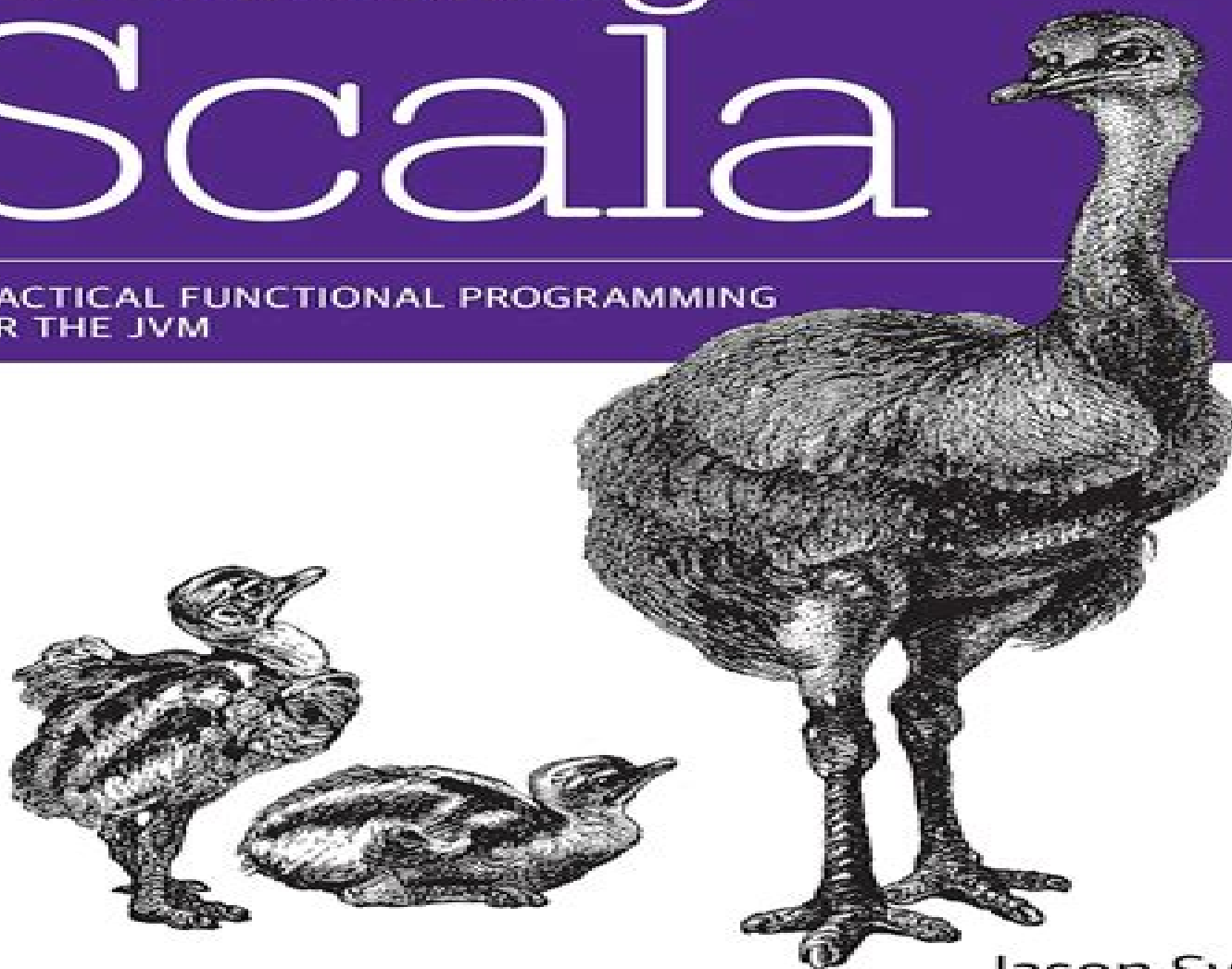# Learning Scala

PRACTICAL FUNCTIONAL PROGRAMMING
FOR THE JVM

Jason Swartz

Learning Scala Practical Functional Programming For The Jvm

Dean Wampler,Alex Payne

Learning Scala Practical Functional Programming For The Jvm:

   Learning Scala Jason Swartz,2014-12-11 Why learn Scala You don t need to be a data scientist or distributed computing expert to appreciate this object oriented functional programming language This practical book provides a comprehensive yet approachable introduction to the language complete with syntax diagrams examples and exercises You ll start with Scala s core types and syntax before diving into higher order functions and immutable data structures Author Jason Swartz demonstrates why Scala s concise and expressive syntax make it an ideal language for Ruby or Python developers who want to improve their craft while its type safety and performance ensures that it s stable and fast enough for any application Learn about the core data types literals values and variables Discover how to think and write in expressions the foundation for Scala s syntax Write higher order functions that accept or return other functions Become familiar with immutable data structures and easily transform them with type safe and declarative operations Create custom infix operators to simplify existing operations or even to start your own domain specific language Build classes that compose one or more traits for full reusability or create new functionality by mixing them in at instantiation   **Advances in Social Simulation** Petra Ahrweiler,Martin Neumann,2021-04-26 This book presents the state of the art in social simulation as presented at the Social Simulation Conference 2019 in Mainz Germany It covers the developments in applications and methods of social simulation addressing societal issues such as socio ecological systems and policymaking Methodological issues discussed include large scale empirical calibration model sharing and interdisciplinary research as well as decision making models validation and the use of qualitative data in simulation modeling Research areas covered include archaeology cognitive science economics organization science and social simulation education This book gives readers insight into the increasing use of social simulation in both its theoretical development and in practical applications such as policymaking whereby modeling and the behavior of complex systems is key The book appeals to students researchers and professionals in the various fields

   Functional Programming Patterns in Scala and Clojure Michael Bevilacqua-Linn,2013-11-26 Solve real life programming problems with a fraction of the code that pure object oriented programming requires Use Scala and Clojure to solve in depth problems with two sets of patterns object oriented patterns that become more concise with functional programming and natively functional patterns Your code will be more declarative with fewer bugs and lower maintenance costs Functional languages have their own patterns that enable you to solve problems with less code than object oriented programming alone This book introduces you the experienced Java programmer to Scala and Clojure practical production quality languages that run on the JVM and interoperate with existing Java By using both the statically typed type inferred Scala and the dynamically typed modern Lisp Clojure you ll gain a broad understanding of functional programming For each pattern you ll first see the traditional object oriented solution and then dig into the functional replacements in both Scala and Clojure These patterns are common in the functional world and deserve to become part of your problem solving toolkit On the object oriented side

you ll see many common patterns such as Command Strategy and Null Object On the functional side you ll learn core functional patterns such as Memoization Lazy Sequence and Tail Recursion Each pattern helps you solve a common programming problem Working through them gives you a set of patterns you can use to solve problems you come across while writing programs Finally you ll learn how to work your existing Java code into new Scala or Clojure projects You can start off small adding functional code little by little so you can complement your existing knowledge with Scala and Clojure as these languages gain popularity on the JVM What You Need Clojure 1 5 and Scala 2 10 Optionally Eclipse with plugins

Learning Scala Jason Swartz, **Programming Scala** Dean Wampler,Alex Payne,2009-09-15 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 **Machine Learning with Scala Quick Start Guide** Md. Rezaul Karim,2019-04-30 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 scalable integration of 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 Na ve 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 RDDs 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 Na ve 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 **Apache Spark 2.x Machine Learning Cookbook** Siamak Amirghodsi,Meenakshi Rajendran,Broderick Hall,Shuen Mei,2017-09-22 Simplify machine learning model implementations with Spark About This Book Solve the day to day problems of data science with Spark This unique cookbook consists of exciting and intuitive numerical recipes Optimize your work by acquiring cleaning analyzing predicting and visualizing your data Who This Book Is For This book is for Scala developers with a fairly good exposure to and understanding of machine learning techniques but lack practical implementations with Spark A solid knowledge of machine learning algorithms is assumed as well as hands on experience of implementing ML algorithms with Scala However you do not need to be acquainted with the Spark ML libraries and ecosystem What You Will Learn Get to know how Scala and Spark go hand in hand for developers when developing ML systems with Spark Build a recommendation engine that scales with Spark Find out how to build unsupervised clustering systems to classify data in Spark Build machine learning systems with the Decision Tree and Ensemble models in Spark Deal with the curse of high dimensionality in big data using Spark Implement Text analytics for Search Engines in Spark Streaming Machine Learning System implementation using Spark In Detail Machine learning aims to extract knowledge from data relying on fundamental concepts in computer science statistics probability and optimization Learning about algorithms enables a wide range of applications from everyday tasks such as product recommendations and spam filtering to cutting edge applications such as self driving cars and personalized medicine You will gain hands on experience of applying these principles using Apache Spark a resilient cluster computing system well suited for large scale machine learning tasks This book begins with a quick overview of setting up the necessary IDEs to facilitate the execution of code examples that will be covered in various chapters It also highlights some key issues developers face while working with machine learning algorithms on the Spark platform We progress by uncovering the various Spark APIs and the implementation of ML algorithms with developing classification systems recommendation engines text analytics clustering and learning systems Toward the final chapters we ll focus on building high end applications and explain various unsupervised methodologies and challenges to tackle when implementing with big data ML systems Style and approach This book is packed with intuitive recipes supported with line by line explanations to

help you understand how to optimize your work flow and resolve problems when working with complex data modeling tasks and predictive algorithms This is a valuable resource for data scientists and those working on large scale data projects

Apache Spark 2: Data Processing and Real-Time Analytics Romeo Kienzler,Md. Rezaul Karim,Sridhar Alla,Siamak Amirghodsi,Meenakshi Rajendran,Broderick Hall,Shuen Mei,2018-12-21 Build efficient data flow and machine learning programs with this flexible multi functional open source cluster computing framework Key FeaturesMaster the art of real time big data processing and machine learning Explore a wide range of use cases to analyze large data Discover ways to optimize your work by using many features of Spark 2 x and ScalaBook Description Apache Spark is an in memory cluster based data processing system that provides a wide range of functionalities such as big data processing analytics machine learning and more With this Learning Path you can take your knowledge of Apache Spark to the next level by learning how to expand Spark s functionality and building your own data flow and machine learning programs on this platform You will work with the different modules in Apache Spark such as interactive querying with Spark SQL using DataFrames and datasets implementing streaming analytics with Spark Streaming and applying machine learning and deep learning techniques on Spark using MLlib and various external tools By the end of this elaborately designed Learning Path you will have all the knowledge you need to master Apache Spark and build your own big data processing and analytics pipeline quickly and without any hassle This Learning Path includes content from the following Packt products Mastering Apache Spark 2 x by Romeo KienzlerScala and Spark for Big Data Analytics by Md Rezaul Karim Sridhar AllaApache Spark 2 x Machine Learning Cookbook by Siamak Amirghodsi Meenakshi Rajendran Broderick Hall Shuen MeiCookbookWhat you will learnGet to grips with all the features of Apache Spark 2 xPerform highly optimized real time big data processing Use ML and DL techniques with Spark MLlib and third party toolsAnalyze structured and unstructured data using SparkSQL and GraphXUnderstand tuning debugging and monitoring of big data applications Build scalable and fault tolerant streaming applications Develop scalable recommendation enginesWho this book is for If you are an intermediate level Spark developer looking to master the advanced capabilities and use cases of Apache Spark 2 x this Learning Path is ideal for you Big data professionals who want to learn how to integrate and use the features of Apache Spark and build a strong big data pipeline will also find this Learning Path useful To grasp the concepts explained in this Learning Path you must know the fundamentals of Apache Spark and Scala   Grokking Simplicity Eric Normand,2021-07-13 The most insightful and intuitive guide to clean and simple software I recommend this to all software developers Rob Pacheco Vision Government Solutions Grokking Simplicity is a friendly practical guide that will change the way you approach software design and development Distributed across servers difficult to test and resistant to modification modern software is complex Grokking Simplicity is a friendly practical guide that will change the way you approach software design and development It introduces a unique approach to functional programming that explains why certain features of software are prone to complexity and teaches you the functional

techniques you can use to simplify these systems so that they re easier to test and debug Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Developers rightly fear the unintended complexity that infects most code This book shows you how to write software that keeps complexity close to its inherent minimum As you write software you should distinguish between code that alters your system s state and code that does not Once you learn to make that distinction you can refactor much of your state altering actions into stateless calculations Your software will be simpler About the book The book also teaches you to solve the complex timing bugs that inevitably creep into asynchronous and multithreaded code In ad vanced sections of the book you learn how composable abstractions help avoid repeating code and open up new levels of expressivity What s inside Patterns for simpler code Powerful time modeling approaches to simplify asynchronous code How higher order functions can make code reusable and composable About the reader For intermediate and advanced developers building complex software Exercises illustrations self assessments and hands on examples lock in each new idea About the author Eric Normand is an expert software developer who has been an influential teacher of functional programming since 2007 Table of Contents 1 Welcome to Grokking Simplicity 2 Functional thinking in action PART 1 ACTIONS CALCULATIONS AND DATA 3 Distinguishing actions calculations and data 4 Extracting calculations from actions 5 Improving the design of actions 6 Staying immutable in a mutable language 7 Staying immutable with untrusted code 8 Stratified design part 1 9 Stratified design part 2 PART 2 FIRST CLASS ABSTRACTIONS 10 First class functions part 1 11 First class functions part 2 12 Functional iteration 13 Chaining functional tools 14 Functional tools for nested data 15 Isolating timelines 16 Sharing resources between timelines 17 Coordinating timelines 18 Reactive and onion architectures 19 The functional journey ahead   Pivotal Certified Professional Core Spring 5 Developer Exam Iuliana Cosmina,2019-12-10 Pass the Pivotal Certified Professional exam for Core Spring based on the latest Spring Framework 5 using source code examples study summaries and mock exams This book now includes WebFlux reactive programming and more found in Spring 5 You ll find a descriptive overview of certification related Spring modules and a single example application demonstrating the use of all required Spring modules Furthermore in Pivotal Certified Professional Core Spring 5 Developer Exam Second Edition each chapter contains a brief study summary and question set and the book s free downloadable source code package includes one mock exam 50 questions like a real exam After using this study guide you will be ready to take and pass the Pivotal Certified Professional exam When you become Pivotal Certified you will have one of the most valuable credentials in Java Pivotal certification helps you advance your skills and your career and get the maximum benefit from Spring Passing the exam demonstrates your understanding of Spring and validates your familiarity with container basics aspect oriented programming AOP data access and transactions Spring Security Spring Boot microservices and Spring model view controller MVC Good luck What You Will Learn Understand the core principles of Spring Framework 5 Use dependency injection Work with aspects in Spring and do

AOP aspect oriented programming Control transactional behavior and work with SQL and NoSQL databases Create and secure web applications based on Spring MVC Get to know the format of the exam and the type of questions in it Create Spring microservices applications Who This Book Is For Spring developers who have taken the Pivotal Core Spring class are eligible to take the Pivotal Certified Professional exam **Mastering Scala** Cybellium,2023-09-26 Are you ready to dive into the world of advanced programming with confidence and expertise Mastering Scala is your gateway to unlocking the true power of the Scala programming language Whether you re an experienced developer seeking to expand your horizons or a programming enthusiast ready to embark on a transformative journey this comprehensive guide will equip you with the skills to develop elegant scalable and high performance software Key Features 1 In Depth Exploration of Scala Fundamentals Immerse yourself in the core concepts of Scala programming from its unique blend of object oriented and functional paradigms to its expressive syntax Build a strong foundation that enables you to tackle complex programming challenges 2 Functional Programming Mastery Discover the beauty of functional programming in Scala Learn how to leverage higher order functions immutability and pattern matching to create clean maintainable code that is both concise and powerful 3 Concurrency and Parallelism Dive into Scala s concurrent and parallel programming capabilities Explore actors Futures and parallel collections to build responsive highly performant applications that excel in a multi core world 4 Advanced Data Structures and Algorithms Elevate your programming skills by mastering advanced data structures and algorithms in Scala From sets and maps to trees and graphs learn how to solve intricate problems using Scala s powerful abstractions 5 Building Robust Applications Explore best practices for structuring and organizing your Scala projects Gain insights into error handling testing and writing code that is not only functional but also robust and easy to maintain 6 Leveraging Scala s Ecosystem Maximize your productivity by exploring the vibrant ecosystem of Scala libraries and frameworks From web development to data analysis discover tools that will help you create software efficiently and effectively 7 Type System and Advanced Language Features Dive into Scala s sophisticated type system and explore advanced language features like implicits and type classes Craft expressive type safe code that reflects the elegance of Scala 8 Performance Optimization Master the art of optimizing Scala applications for top notch performance Learn profiling techniques memory management and concurrency tuning to ensure your software runs efficiently 9 Deployment and DevOps Navigate the landscape of deploying Scala applications to various environments Discover containerization and adopt DevOps practices that streamline your development to production pipeline Who This Book Is For Mastering Scala is an indispensable companion for developers of all skill levels who are passionate about mastering the Scala programming language Whether you re a novice programmer or an experienced coder eager to embrace Scala s unique features this book will guide you through the language s intricacies and empower you to create sophisticated high performance software   Scala Cookbook Alvin Alexander,2021-08-10 Save time and trouble building object oriented functional and concurrent applications with Scala 3 The latest edition of this

comprehensive cookbook is packed with more than 250 ready to use recipes and 700 code examples to help you solve the most common problems when working with Scala and its popular libraries Whether you re working on web big data or distributed applications this cookbook provides recipes based on real world scenarios for experienced Scala developers and for programmers just learning to use this JVM language Author Alvin Alexander includes practical solutions from his experience using Scala for highly scalable applications that support concurrency and distribution Recipes cover Strings numbers and control structures Classes methods objects traits packaging and imports Functional programming in a variety of situations Building Scala applications with sbt Collections covering Scala s wealth of classes and methods Actors and concurrency List array map set and more Files processes and command line tasks Web services and interacting with Java Databases and persistence data types and idioms **Scala:Applied Machine Learning** Pascal Bugnion,Patrick R. Nicolas,Alex Kozlov,2017-02-23 Leverage the power of Scala and master the art of building improving and validating scalable machine learning and AI applications using Scala s most advanced and finest features About This Book Build functional type safe routines to interact with relational and NoSQL databases with the help of the tutorials and examples provided Leverage your expertise in Scala programming to create and customize your own scalable machine learning algorithms Experiment with different techniques evaluate their benefits and limitations using real world financial applications Get to know the best practices to incorporate new Big Data machine learning in your data driven enterprise and gain future scalability and maintainability Who This Book Is For This Learning Path is for engineers and scientists who are familiar with Scala and want to learn how to create validate and apply machine learning algorithms It will also benefit software developers with a background in Scala programming who want to apply machine learning What You Will Learn Create Scala web applications that couple with JavaScript libraries such as D3 to create compelling interactive visualizations Deploy scalable parallel applications using Apache Spark loading data from HDFS or Hive Solve big data problems with Scala parallel collections Akka actors and Apache Spark clusters Apply key learning strategies to perform technical analysis of financial markets Understand the principles of supervised and unsupervised learning in machine learning Work with unstructured data and serialize it using Kryo Protobuf Avro and AvroParquet Construct reliable and robust data pipelines and manage data in a data driven enterprise Implement scalable model monitoring and alerts with Scala In Detail This Learning Path aims to put the entire world of machine learning with Scala in front of you Scala for Data Science the first module in this course is a tutorial guide that provides tutorials on some of the most common Scala libraries for data science allowing you to quickly get up to speed building data science and data engineering solutions The second course Scala for Machine Learning guides you through the process of building AI applications with diagrams formal mathematical notation source code snippets and useful tips A review of the Akka framework and Apache Spark clusters concludes the tutorial The next module Mastering Scala Machine Learning is the final step in this course It will take your knowledge to next level and help you use the knowledge to

build advanced applications such as social media mining intelligent news portals and more After a quick refresher on functional programming concepts using REPL you will see some practical examples of setting up the development environment and tinkering with data We will then explore working with Spark and MLlib using k means and decision trees By the end of this course you will be a master at Scala machine learning and have enough expertise to be able to build complex machine learning projects using Scala This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Scala for Data Science Pascal Bugnion Scala for Machine Learning Patrick Nicolas Mastering Scala Machine Learning Alex Kozlov Style and approach A tutorial with complete examples this course will give you the tools to start building useful data engineering and data science solutions straightaway This course provides practical examples from the field on how to correctly tackle data analysis problems particularly for modern Big Data datasets   Scala for Java Developers Toby Weston,2017-12-12 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   *Get Programming with Haskell* Will Kurt,2018-03-06 Summary Get Programming with Haskell leads you through short lessons examples and exercises designed to make Haskell your own It has crystal clear illustrations and guided practice You will write and test dozens of interesting programs and dive into custom Haskell modules You will gain a new perspective on programming plus the practical ability to use Haskell in the everyday world The 80 IQ points not guaranteed Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Programming languages often differ only around the edges a few keywords libraries or platform choices Haskell gives you an entirely new point of view To the software pioneer Alan Kay a change in perspective can be worth 80 IQ points and Haskellers agree on the dramatic benefits of thinking the Haskell way thinking functionally with type safety mathematical certainty and more In this hands on book that s exactly what you ll learn to do What s Inside Thinking in Haskell Functional programming basics Programming in types Real world applications for Haskell About the Reader Written for readers who know one or more programming languages Table of Contents Lesson 1 Getting started with Haskell Unit 1 FOUNDATIONS OF FUNCTIONAL PROGRAMMING Lesson 2 Functions and functional

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advanced technologies that Java delivers such as web programming and parallel computing and will develop a mastermind game Moving on we provide more simple examples to build a foundation before diving into some complex data structure problems that will solidify your Java 11 skills With a special focus on the features of new projects Project Valhalla Project Panama Project Amber and Project Loom this book will help you get employed as a top notch Java developer By the end of the book you ll have a firm foundation to continue your journey toward becoming a professional Java developer What you will learn Compile package and run a program using a build management tool Get to know the principles of test driven development Separate the wiring of multiple modules from application logic Use Java annotations for configuration Master the scripting API built into the Java language Understand static versus dynamic implementation of code Who this book is for This book is for anyone who wants to learn the Java programming language No programming experience required If you have prior experience it will help you through the book more easily **Functional Programming: A PragPub Anthology** Michael Swaine,2017-07-20 Explore functional programming and discover new ways of thinking about code You know you need to master functional programming but learning one functional language is only the start In this book through articles drawn from PragPub magazine and articles written specifically for this book you ll explore functional thinking and functional style and idioms across languages Led by expert guides you ll discover the distinct strengths and approaches of Clojure Elixir Haskell Scala and Swift and learn which best suits your needs Contributing authors Rich Hickey Stuart Halloway Aaron Bedra Michael Bevilacqua Linn Venkat Subramaniam Paul Callaghan Jose Valim Dave Thomas Natasha Murashev Tony Hillerson Josh Chisholm and Bruce Tate Functional programming is on the rise because it lets you write simpler cleaner code and its emphasis on immutability makes it ideal for maximizing the benefits of multiple cores and distributed solutions So far nobody s invented the perfect functional language each has its unique strengths In Functional Programming A PragPub Anthology you ll investigate the philosophies tools and idioms of five different functional programming languages See how Swift the development language for iOS encourages you to build highly scalable apps using functional techniques like map and reduce Discover how Scala allows you to transition gently but deeply into functional programming without losing the benefits of the JVM while with Lisp based Clojure you can plunge fully into the functional style Learn about advanced functional concepts in Haskell a pure functional language making powerful use of the type system with type inference and type classes And see how functional programming is becoming more elegant and friendly with Elixir a new functional language built on the powerful Erlang base The industry has been embracing functional programming more and more driven by the need for concurrency and parallelism This collection of articles will lead you to mastering the functional approach to problem solving So put on your explorer s hat and prepare to be surprised The goal of exploration is always discovery What You Need Familiarity with one or more programming languages **Functional Programming Patterns in Scala and Clojure** Michael Bevilacqua-Linn,2013 Solve real life programming problems with a fraction of the code that pure object oriented

programming requires Use Scala and Clojure to solve in depth problems with two sets of patterns object oriented patterns that become more concise with functional programming and natively functional patterns Your code will be more declarative with fewer bugs and lower maintenance costs Functional languages have their own patterns that enable you to solve problems with less code than object oriented programming alone This book introduces you the experienced Java programmer to Scala and Clojure practical production quality languages that run on the JVM and interoperate with existing Java By using both the statically typed type inferred Scala and the dynamically typed modern Lisp Clojure you ll gain a broad understanding of functional programming For each pattern you ll first see the traditional object oriented solution and then dig into the functional replacements in both Scala and Clojure These patterns are common in the functional world and deserve to become part of your problem solving toolkit On the object oriented side you ll see many common patterns such as Command Strategy and Null Object On the functional side you ll learn core functional patterns such as Memoization Lazy Sequence and Tail Recursion Each pattern helps you solve a common programming problem Working through them gives you a set of patterns you can use to solve problems you come across while writing programs Finally you ll learn how to work your existing Java code into new Scala or Clojure projects You can start off small adding functional code little by little so you can complement your existing knowledge with Scala and Clojure as these languages gain popularity on the JVM What You Need Clojure 1 5 and Scala 2 10 Optionally Eclipse with plugins

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Learning Scala Practical Functional Programming For The Jvm Introduction

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