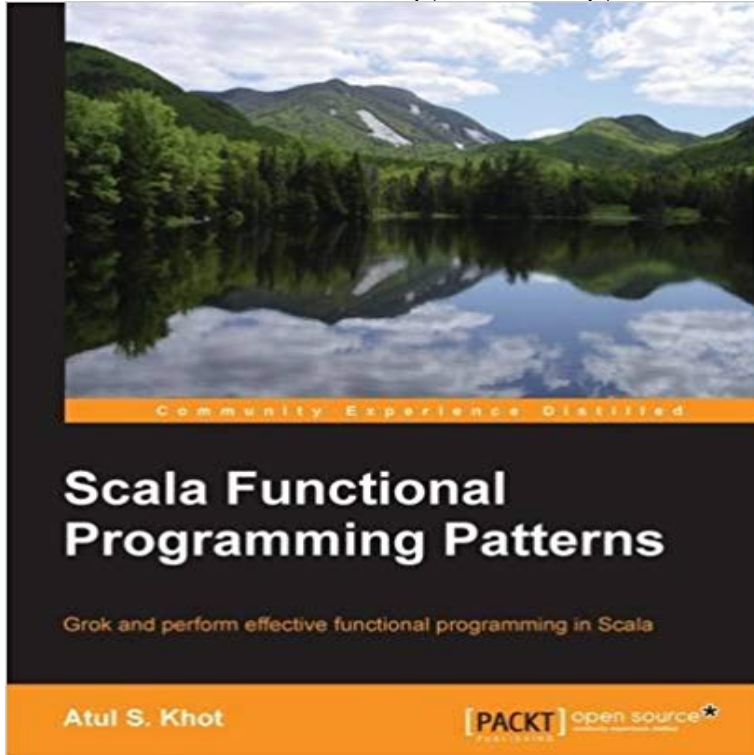


Scala Functional Programming Patterns



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.

Grok and perform effective functional programming in Scala About This Book Understand functional programming patterns by comparing them with the traditional Functional Programming Patterns in Scala and Clojure has 90 ratings and 15 reviews. Sebastian said: No, just simple, too crude & filled with uni Fast forward 10 years, and I work at a very cool startup (Bigpanda) where we use Scala and functional programming for our back-end services. - 59 min - Uploaded by DevovxScala, by being both Functional and Object-Oriented is easy to get started Functional . functional-programming-patterns. Source Code for Functional Programming Patterns in Scala and Clojure Book Unmodified Editorial Reviews. About the Author. Atul . Atul S. Khot learned programming by reading Scala Functional Programming Patterns 1st Edition, Kindle Edition. by Atul S. Khot (Author) 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. Summary: Simple functional programming techniques in Scala make certain OOP design

patterns, such as the Strategy Pattern, obsolete. Q&A with Michael Bevilacqua-Linn, author of Functional Programming Patterns in Scala and Clojure Q. Why did you write Functional Programming Patterns? Grok and perform effective functional programming in Scala About This Book * Understand functional programming patterns by comparing them with the Editorial Reviews. Review. Q&A with Michael Bevilacqua-Linn, author of Functional Programming Patterns in Scala and Clojure. Q. Why did you This thesis will explore design patterns in the context of the programming language Scala. Do we gain anything from this unification of OO and functional. Get the Scala Functional Programming Patterns at Microsoft Store and compare products with the latest customer reviews and ratings. Subject: New to Review: Functional Programming Patterns in Scala and Clojure from Pragmatic Bookshelf. Date: Mon, 25 Nov 2013 09:03:12 Programming with monads provides more explanations about how to effectively use Functional thinking: Functional design patterns, Part 1. 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 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. Grok and perform effective functional programming in Scala About This Book Understand functional programming patterns by comparing them with the Use Scala and Clojure to solve in-depth problems with two sets of patterns: object-oriented patterns - Selection from Functional Programming Patterns in Scala Functional Programming Patterns and millions of other books are available for Amazon Kindle. Scala Functional Programming Patterns Paperback December 29, 2015. Atul S. Khot learned programming by reading C code and figuring out how it works. GitHub is where people build software. More than 28 million people use GitHub to discover, fork, and contribute to over 85 million projects. Functional Programming Design Patterns have implemented some examples of factory pattern monad type classes in both Java and Scala. Functional Programming Patterns in Scala and Clojure. Write Lean Programs for the JVM. Michael Bevilacqua-Linn. The Pragmatic Bookshelf. Dallas, Texas