

Scala Design Patterns

By Ivan Nikolov

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Scala Design Patterns By Ivan Nikolov

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.

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Editorial Review

About the Author

Ivan Nikolov

Ivan Nikolov is a software engineer living and working in London. After he graduated with an award of distinction from the University of Edinburgh in 2012, he moved to London and started working for a company in the ad tech industry. During his studies, Ivan developed an interest in technologies that help in dealing with a large amount of data. His professional career has given him the chance to work with cutting edge big data technologies on a daily basis. Some of the interesting projects that Ivan has worked on include a large scale real-time predictive analytics engine and batch processing solutions. He has used Scala in all of these projects in combination with technologies and libraries such as Spark, Hadoop, Scalding, Cassandra, Kafka, and so on, as well as other JVM languages such as Java. Ivan's approach to software engineering is very personal, and he takes pride in the projects he works on. He is extremely meticulous about writing efficient and beautiful code. Apart from programming and learning about new languages and technologies, in his free time, Ivan likes to participate in sports activities, travel, meet people, and explore new places and cultures. He also likes photography, especially nature and wildlife. In his spare time, Ivan tries to keep himself busy with personal projects and learning about new technologies. He also runs a small programming blog where he writes articles about important programming concepts. Ivan believes that knowledge sharing is an essential part of keeping the software and more specifically, the open source community running. Sharing ideas leads to greater innovation and raises the quality of products to a higher level.

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