



# Learning Concurrent Programming in Scala

By Aleksandar Prokopec

Download now

Read Online 

**Learning Concurrent Programming in Scala** By Aleksandar Prokopec

**Learn the art of building intricate, modern, scalable concurrent applications using Scala**

## About This Book

- Design and implement scalable and easy-to-understand concurrent applications
- 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, with a particular emphasis on practical, real-world applications
- Step-by-step tutorial guide, which is full of pragmatic examples

## Who This Book Is For

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.

## 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
- Implement reactive and event-based programs declaratively with Rx-style event streams
- Design safe, scalable, and easy-to-comprehend in-memory transactional data

models

- Transparently create distributed applications that scale across multiple machines
- Choose the correct concurrency abstraction and integrate different concurrency frameworks together in large applications

## In Detail

This book will give you an insight into the best practices necessary to build concurrent programs in Scala using modern, high-level concurrency libraries. It 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. It then walks you through different high-level concurrency abstractions, each tailored toward a specific class of programming tasks. Finally, the book presents an overview of when to use which concurrency library and demonstrates how they all work together.

 [Download Learning Concurrent Programming in Scala ...pdf](#)

 [Read Online Learning Concurrent Programming in Scala ...pdf](#)

# Learning Concurrent Programming in Scala

*By Aleksandar Prokopec*

**Learning Concurrent Programming in Scala** By Aleksandar Prokopec

**Learn the art of building intricate, modern, scalable concurrent applications using Scala**

## About This Book

- Design and implement scalable and easy-to-understand concurrent applications
- 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, with a particular emphasis on practical, real-world applications
- Step-by-step tutorial guide, which is full of pragmatic examples

## Who This Book Is For

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.

## 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
- Implement reactive and event-based programs declaratively with Rx-style event streams
- Design safe, scalable, and easy-to-comprehend in-memory transactional data models
- Transparently create distributed applications that scale across multiple machines
- Choose the correct concurrency abstraction and integrate different concurrency frameworks together in large applications

## In Detail

This book will give you an insight into the best practices necessary to build concurrent programs in Scala using modern, high-level concurrency libraries. It 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. It then walks you through different high-level concurrency abstractions, each tailored toward a specific class of programming tasks. Finally, the book

presents an overview of when to use which concurrency library and demonstrates how they all work together.

### **Learning Concurrent Programming in Scala By Aleksandar Prokopec Bibliography**

- Sales Rank: #1021026 in Books
- Published on: 2014-11-25
- Released on: 2014-11-28
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .83" w x 7.50" l, 1.38 pounds
- Binding: Paperback
- 366 pages

 [Download Learning Concurrent Programming in Scala ...pdf](#)

 [Read Online Learning Concurrent Programming in Scala ...pdf](#)

## Download and Read Free Online Learning Concurrent Programming in Scala By Aleksandar Prokopec

---

### Editorial Review

About the Author

#### Aleksandar Prokopec

Aleksandar Prokopec is a software developer and a concurrent and distributed programming researcher. He holds an MSc in Computing from the Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia, and a PhD in Computer Science from the Ecole Polytechnique Federale de Lausanne, Switzerland. As a doctoral assistant and member of the Scala team at EPFL, he actively contributed to the Scala programming language, and has worked on programming abstractions for concurrency, data-parallel programming support, and concurrent data structures for Scala. He created the Scala Parallel Collections framework, which is a library for high-level data-parallel programming in Scala, and participated in working groups for Scala concurrency libraries, such as Futures and Promises and ScalaSTM.

### Users Review

From reader reviews:

#### Barbara Spangler:

What do you about book? It is not important with you? Or just adding material when you require something to explain what yours problem? How about your time? Or are you busy man or woman? If you don't have spare time to perform others business, it is give you a sense of feeling bored faster. And you have free time? What did you do? Every person has many questions above. They have to answer that question due to the fact just their can do which. It said that about publication. Book is familiar in each person. Yes, it is right. Because start from on kindergarten until university need this specific Learning Concurrent Programming in Scala to read.

#### Mary Gillon:

Your reading 6th sense will not betray anyone, why because this Learning Concurrent Programming in Scala e-book written by well-known writer who really knows well how to make book that may be understand by anyone who also read the book. Written with good manner for you, dripping every ideas and creating skill only for eliminate your personal hunger then you still skepticism Learning Concurrent Programming in Scala as good book not only by the cover but also by content. This is one guide that can break don't evaluate book by its include, so do you still needing a different sixth sense to pick that!? Oh come on your reading through sixth sense already said so why you have to listening to a different sixth sense.

#### Alma Lewis:

What is your hobby? Have you heard that question when you got students? We believe that that concern was given by teacher on their students. Many kinds of hobby, Everybody has different hobby. And also you know

that little person such as reading or as studying become their hobby. You need to understand that reading is very important along with book as to be the issue. Book is important thing to add you knowledge, except your own personal teacher or lecturer. You find good news or update concerning something by book. Different categories of books that can you choose to use be your object. One of them is Learning Concurrent Programming in Scala.

### **Armida Shipman:**

Many people said that they feel weary when they reading a guide. They are directly felt that when they get a half parts of the book. You can choose the particular book Learning Concurrent Programming in Scala to make your personal reading is interesting. Your own personal skill of reading skill is developing when you including reading. Try to choose simple book to make you enjoy to learn it and mingle the feeling about book and examining especially. It is to be initially opinion for you to like to wide open a book and go through it. Beside that the reserve Learning Concurrent Programming in Scala can to be your brand new friend when you're feel alone and confuse using what must you're doing of the time.

**Download and Read Online Learning Concurrent Programming in Scala By Aleksandar Prokopec #JT8CPSGF9WM**

# **Read Learning Concurrent Programming in Scala By Aleksandar Prokopec for online ebook**

Learning Concurrent Programming in Scala By Aleksandar Prokopec Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Learning Concurrent Programming in Scala By Aleksandar Prokopec books to read online.

## **Online Learning Concurrent Programming in Scala By Aleksandar Prokopec ebook PDF download**

**Learning Concurrent Programming in Scala By Aleksandar Prokopec Doc**

**Learning Concurrent Programming in Scala By Aleksandar Prokopec Mobipocket**

**Learning Concurrent Programming in Scala By Aleksandar Prokopec EPub**

**JT8CPSGF9WM: Learning Concurrent Programming in Scala By Aleksandar Prokopec**