



Learning Concurrent Programming in Scala

Aleksandar Prokopec

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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.

Biographie de l'auteur

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.

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