

BRIAN GOETZ

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JAVA

CONCURRENCY IN PRACTICE



Java Concurrency In Practice Brian Goetz

Sebastian Brünink



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you have a solid knowledge in another programming language such as Java you should find this book easily accessible

What You Will Learn

- Get to grips with the fundamentals of concurrent programming on modern multiprocessor systems
- 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
- Design safe scalable and easy to comprehend in memory transactional data models
- Transparently create distributed applications that scale across multiple machines
- Integrate different concurrency frameworks together in large applications
- Develop and implement scalable and easy to understand concurrent applications in Scala 2.12

In Detail Scala is a modern multiparadigm programming language designed to express common programming patterns in a concise elegant and type safe way Scala smoothly integrates the features of object oriented and functional languages

In this second edition you will find updated coverage of the Scala 2.12 platform

The Scala 2.12 series targets Java 8 and requires it for execution

The book 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

The book then walks you through different high level concurrency abstractions each tailored toward a specific class of programming tasks while touching on the latest advancements of async programming capabilities of Scala

It also covers some useful patterns and idioms to use with the techniques described

Finally the book presents an overview of when to use which concurrency library and demonstrates how they all work together and then presents new exciting approaches to building concurrent and distributed systems

Style and approach

The book provides a step by step introduction to concurrent programming

It focuses on easy to understand examples that are pragmatic and applicable to real world applications

Different topics are approached in a bottom up fashion gradually going from the simplest foundations to the most advanced features

[Programming Concurrency on the JVM](#)

Venkat Subramaniam, 2011-08-21

More than ever learning to program concurrency is critical to creating faster responsive applications

Speedy and affordable multicore hardware is driving the demand for high performing applications and you can leverage the Java platform to bring these applications to life

Concurrency on the Java platform has evolved from the synchronization model of JDK to software transactional memory STM and actor based concurrency

This book is the first to show you all these concurrency styles so you can compare and choose what works best for your applications

You ll learn the benefits of each of these models when and how to use them and what their limitations are

Through hands on exercises you ll learn how to avoid shared mutable state and how to write good elegant explicit synchronization free programs so you can create easy and safe concurrent applications

The techniques you learn in this book will take you from dreading concurrency to mastering and enjoying it

Best of all you can work with Java or a JVM language of your choice Clojure JRuby Groovy or Scala to reap the growing power of multicore hardware

If you are a Java programmer you d need JDK 1.5 or later and the

Akka 1.0 library In addition if you program in Scala Clojure Groovy or JRuby you'd need the latest version of your preferred language Groovy programmers will also need GPars

Java Coding Guidelines Fred Long, Dhruv Mohindra, Robert C. Seacord, Dean F. Sutherland, David Svoboda, 2014 Organizations worldwide rely on Java code to perform mission critical tasks and therefore that code must be reliable robust fast maintainable and secure Java™ Coding Guidelines brings together expert guidelines recommendations and code examples to help you meet these demands Publisher description

Core Java Volume I--Fundamentals Cay S. Horstmann, 2015-12-22 Core Java has long been recognized as the leading no nonsense tutorial and reference for experienced programmers who want to write robust Java code for real world applications Now Core Java Volume I Fundamentals Tenth Edition has been extensively updated to reflect the most eagerly awaited and innovative version of Java in years Java SE 8 Rewritten and reorganized to illuminate new Java SE 8 features idioms and best practices it contains hundreds of example programs all carefully crafted for easy understanding and practical applicability Writing for serious programmers solving real world problems Cay Horstmann helps you achieve a deep understanding of the Java language and library In this first volume of the two volume work Horstmann focuses on fundamental language concepts and the foundations of modern user interface programming You'll find in depth coverage of topics ranging from Java object oriented programming to generics collections lambda expressions Swing UI design and the latest approaches to concurrency and functional programming This guide will help you Leverage your existing programming knowledge to quickly master core Java syntax Understand how encapsulation classes and inheritance work in Java Master interfaces inner classes and lambda expressions for functional programming Improve program robustness with exception handling and effective debugging Write safer more readable programs with generics and strong typing Use pre built collections to collect multiple objects for later retrieval Master concurrent programming techniques from the ground up Build modern cross platform GUIs with standard Swing components Deploy configurable applications and applets and deliver them across the Internet Simplify concurrency and enhance performance with new functional techniques If you're an experienced programmer moving to Java SE 8 Core Java Tenth Edition will be your reliable practical companion now and for many years to come Look for the companion volume Core Java Volume II Advanced Features Tenth Edition ISBN 13 978 0 13 417729 8 for coverage of Java 8 streams input and output XML databases annotations and other advanced topics Register your product or convenient access to downloads updates and corrections as they become available See inside the book for information

[Java, Late Objects Version](#) Paul J. Deitel, Harvey M. Deitel, 2010 The Deitels groundbreaking How to Program series offers unparalleled breadth and depth of object oriented programming concepts and intermediate level topics for further study This survey of Java programming contains an optional extensive OOD UML 2 case study on developing and implementing the software for an automated teller machine The Eighth Edition of this acclaimed text is now current with the Java SE 6 updates that have occurred since the book was last published The Late Objects Version delays coverage of class development until Chapter 8 presenting the

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[Alchemical Libraries Almanack](#) ,2006 **Java SE8 for Programmers** Paul J. Deitel,Harvey Deitel,2014-03-29 The professional programmer s Deitel guide to Java SE 7 and SE 8 Java 8 development with the powerful Java platform Written for programmers with a background in high level language programming this book applies the Deitel signature live code approach to teaching programming and explores the Java language and Java APIs in depth The book presents concepts in the context of fully tested programs complete with syntax shading code highlighting line by line code walkthroughs and program outputs The book features hundreds of complete Java programs with thousands of lines of proven Java code and hundreds of tips that will help you build robust applications Start with an introduction to Java using an early classes and objects approach then rapidly move on to more advanced topics including GUI graphics exception handling lambdas streams functional interfaces object serialization concurrency generics generic collections JDBC and more You ll enjoy the Deitels classic

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Java 9 for Programmers Paul Deitel,Harvey Deitel,2017-05-16 The professional programmer s Deitel guide to Java 9 and the powerful Java platform Written for programmers with a background in another high level language this book applies the Deitel signature live code approach to teaching programming and explores the Java 9 language and APIs in depth The book presents concepts in fully tested programs complete with code walkthroughs syntax shading code highlighting and program outputs It features hundreds of complete Java 9 programs with thousands of lines of proven code and hundreds of software development tips that will help you build robust applications Start with an introduction to Java using an early classes and objects approach then rapidly move on to more advanced topics including JavaFX GUI graphics animation and video exception handling lambdas streams functional interfaces object serialization concurrency generics generic collections database with JDBCTM and JPA and compelling new Java 9 features such as the Java Platform Module System interactive Java with JShell for discovery experimentation and rapid prototyping and more You ll enjoy the Deitels classic treatment of object oriented programming and the object oriented design ATM case study including a complete Java implementation When you re finished you ll have everything you need to build industrial strength object oriented Java 9 applications New Java 9 Features Java 9 s Platform Module System Interactive Java via JShell Java 9 s REPL Collection Factory Methods Matcher Methods Stream Methods JavaFX Updates Using Modules in JShell Completable Future Updates Security Enhancements Private Interface Methods and many other language and API updates Core Java Features Classes Objects Encapsulation Inheritance Polymorphism Interfaces Composition vs Inheritance Programming to an Interface not an Implementation Lambdas Sequential and Parallel Streams Functional Interfaces with Default and Static Methods Immutability JavaFX GUI 2D and 3D Graphics Animation Video CSS Scene Builder Files I O Streams XML Serialization Concurrency for Optimal Multi Core Performance JavaFX Concurrency APIs Generics and Generic Collections Recursion Database JDBCTM and JPA Keep in

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Mastering Lambdas Maurice Naftalin, 2014-10-17 The Definitive Guide to Lambda Expressions Mastering Lambdas Java Programming in a Multicore World describes how the lambda related features of Java SE 8 will enable Java to meet the challenges of next generation parallel hardware architectures The book explains how to write lambdas and how to use them in streams and in collection processing providing code examples throughout You'll learn how to use lambda expressions to take full advantage of performance improvements provided by today's multicore hardware This Oracle Press book covers Why lambdas were needed and how they will change Java programming Syntax of lambda expressions The basic operation of streams and pipelines Using collectors and reduction to end pipelines Creating streams Spliterators the fork join framework and exceptions Examining stream performance with microbenchmarking API evolution using default methods

Dr. Dobb's Journal, 2006 **The British National Bibliography** Arthur James Wells, 2006

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Mastering Concurrency Programming with Java 8 Javier Fernández González, 2016-02-29 Master the principles and techniques of multithreaded programming with the Java 8 Concurrency API About This Book Implement concurrent applications using the Java 8 Concurrency API and its new components Improve the performance of your applications or process more data at the same time taking advantage of all of your resources Construct real world examples related to machine learning data mining image processing and client server environments Who This Book Is For If you are a competent Java developer with a good understanding of concurrency but have no knowledge of how to effectively implement concurrent programs or use streams to make processes more efficient then this book is for you What You Will Learn Design concurrent applications by converting a

sequential algorithm into a concurrent one Discover how to avoid all the possible problems you can get in concurrent algorithms Use the Executor framework to manage concurrent tasks without creating threads Extend and modify Executors to adapt their behavior to your needs Solve problems using the divide and conquer technique and the Fork Join framework Process massive data sets with parallel streams and Map Reduce implementation Control data race conditions using concurrent data structures and synchronization mechanisms Test and monitor concurrent applications In Detail Concurrency programming allows several large tasks to be divided into smaller sub tasks which are further processed as individual tasks that run in parallel All the sub tasks are combined together once the required results are achieved they are then merged to get the final output The whole process is very complex This process goes from the design of concurrent algorithms to the testing phase where concurrent applications need extra attention Java includes a comprehensive API with a lot of ready to use components to implement powerful concurrency applications in an easy way but with a high flexibility to adapt these components to your needs The book starts with a full description of design principles of concurrent applications and how to parallelize a sequential algorithm We ll show you how to use all the components of the Java Concurrency API from basics to the most advanced techniques to implement them in powerful concurrency applications in Java You will be using real world examples of complex algorithms related to machine learning data mining natural language processing image processing in client server environments Next you will learn how to use the most important components of the Java 8 Concurrency API the Executor framework to execute multiple tasks in your applications the Phaser class to implement concurrent tasks divided into phases and the Fork Join framework to implement concurrent tasks that can be split into smaller problems using the divide and conquer technique Toward the end we will cover the new inclusions in Java 8 API the Map and Reduce model and the Map and Collect model The book will also teach you about the data structures and synchronization utilities to avoid data race conditions and other critical problems Finally the book ends with a detailed description of the tools and techniques that you can use to test a Java concurrent application Style and approach A complete guide implementing real world examples with algorithms related to machine learning data mining and natural language processing in client server environments All the examples are explained in a step by step approach

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