



Concurrent Programming in Java™: Design Principles and Pattern, 2nd Edition

By Doug Lea

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Concurrent Programming in Java™: Design Principles and Pattern, 2nd Edition By Doug Lea

In this second edition, you will find thoroughly updated coverage of the Java 2 platform and new or expanded coverage of: * Memory model * Cancellation * Portable parallel programming * Utility classes for concurrency control The Java platform provides a broad and powerful set of APIs, tools, and technologies. One of its most powerful capabilities is the built-in support for threads. This makes concurrent programming an attractive yet challenging option for programmers using the Java programming language. This book shows readers how to use the Java platforms threading model more precisely by helping them to understand the patterns and tradeoffs associated with concurrent programming. You will learn how to initiate, control, and coordinate concurrent activities using the class `java.lang.Thread`, the keywords `synchronized` and `volatile`, and the methods `wait`, `notify`, and `notifyAll`. In addition, you will find detailed coverage of all aspects of concurrent programming, including such topics as confinement and synchronization, deadlocks and conflicts, state-dependent action control, asynchronous message passing and control flow, coordinated interaction, and structuring web-based and compu

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Editorial Review

Amazon.com Review

Concurrent Programming in Java, 2nd Edition surveys a wide field of research in parallelism and concurrency and shows how to do more with multithreading in Java with dozens of patterns and design tips. Written for the advanced Java developer, this book offers a comprehensive tour of leading-edge thinking about parallel coding processes.

Within the dozens of techniques and tips offered here, this book accomplishes at least two goals. First, it shows how concurrency is implemented by default within Java, with material on how built-in features (like the *synchronized* keyword and its memory model) can be expected to perform when dealing with multiple threads. Naturally, Java threads themselves are also covered, including priorities, scheduling, and the like.

Much of this book looks at ways to improve performance of concurrent code beyond the simple default strategies. After defining criteria for measuring concurrent code (such as safety and "liveness," a measure of running live threads effectively), the book presents dozens of techniques for letting threads work together safely. For the working Java programmer, coverage of patterns that have been implemented in the downloadable *java.concurrency* package will be the most immediately useful. (Within this nearly encyclopedic survey, short code snippets are used for every pattern and concept.)

Though theoretical at times, this book offers plenty of ideas and sample code to get you started thinking of ways to improve multithreaded code.

Impressively comprehensive, *Concurrent Programming in Java* offers a veritable bible of techniques for doing two things at once with threads in Java. It's a worthwhile guide to the state-of-the-art strategies for improving the performance of your Java threads. --Richard Dragan

Topics covered: Threads and concurrency in Java, design considerations (safety, liveness, and performance), Before/After Patterns, layering, adapters, immutability and synchronization, deadlock, resource ordering, the Java Memory Model and concurrency, using the *java.concurrency* package, confinement, refactoring for concurrency, mutexes, read-write locks, recovering from failure, notifications, semaphores, latches, exchanges, transactions, one-way messages, worker threads, polling and event-driven I/O, parallelism techniques (fork/join, computation trees, and barriers), Communicating Sequential Processes (CSP).

From the Back Cover

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- Memory model
- Cancellation
- Portable parallel programming
- Utility classes for concurrency control

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You will learn how to initiate, control, and coordinate concurrent activities using the class `java.lang.Thread`, the keywords `synchronized` and `volatile`, and the methods `wait`, `notify`, and `notifyAll`. In addition, you will find detailed coverage of all aspects of concurrent programming, including such topics as confinement and synchronization, deadlocks and conflicts, state-dependent action control, asynchronous message passing and control flow, coordinated interaction, and structuring web-based and computational services.

The book targets intermediate to advanced programmers interested in mastering the complexities of concurrent programming. Taking a design pattern approach, the book offers standard design techniques for creating and implementing components that solve common concurrent programming challenges. The numerous code examples throughout help clarify the subtleties of the concurrent programming concepts discussed.

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About the Author

Doug Lea is one of the foremost experts on object-oriented technology and software reuse. He has been doing collaborative research with Sun Labs for more than five years. Lea is Professor of Computer Science at SUNY Oswego, Co-director of the Software Engineering Lab at the New York Center for Advanced Technology in Computer Applications, and Adjunct Professor of Electrical and Computer Engineering at Syracuse University. In addition, he co-authored the book, *Object-Oriented System Development* (Addison-Wesley, 1993). He received his B.A., M.A., and Ph.D. from the University of New Hampshire.

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