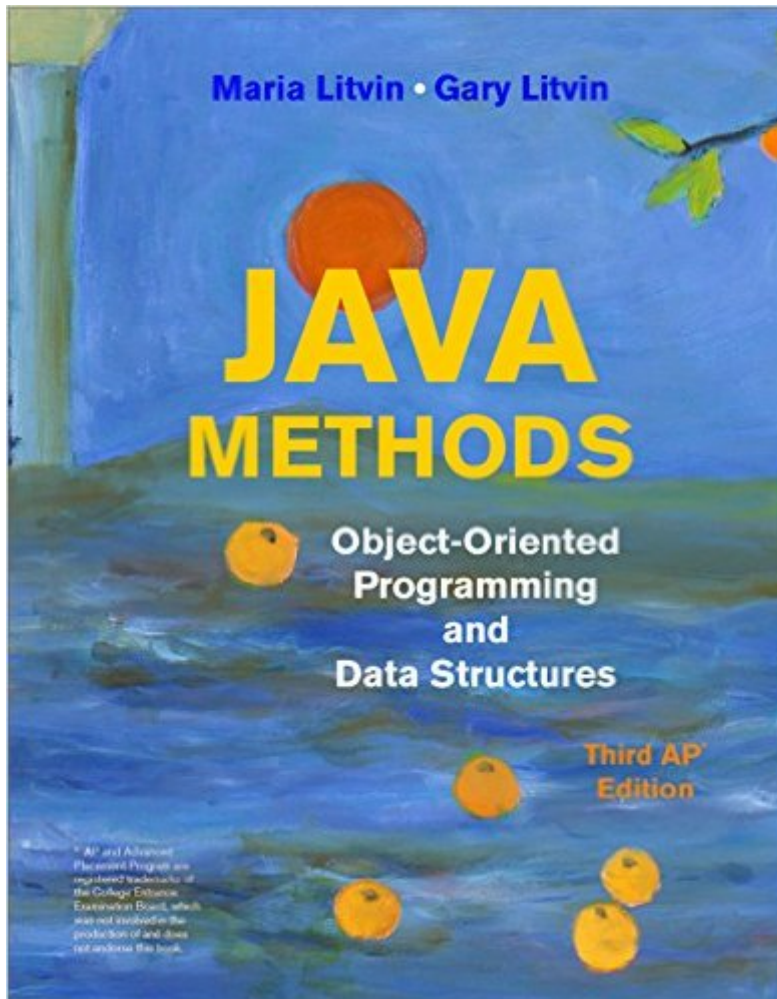


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# Java Methods: Object-Oriented Programming And Data Structures



## Synopsis

This is the third edition of the popular computer science textbook *Java Methods*. The book offers a thorough introduction to the concepts and practices of object-oriented programming in Java. It also introduces the most common data structures and related algorithms and their implementations in the Java collections framework. Chapters 1-14 follow the syllabus of the AP Computer Science course. They will prepare you well for the AP CS exam. Chapters 15-18 on file input and output, graphics, graphical user interfaces, and events handling in Java will give you a better sense of real-world Java programming; this material also makes case studies, labs, and exercises more fun. Chapters 19-26 deal with more advanced data structures and algorithms. Chapter 27, *Design Patterns*, discusses more intricate aspects of object-oriented design and serves as an introduction to design patterns, and Chapter 28, *Computing in Context*, addresses the issues of creative, responsible, and ethical computer use. The book follows four main threads: Java syntax and style, OOP concepts and techniques, algorithms, and Java libraries. As in the software engineering profession itself, these threads are interwoven into an inseparable braid. Working through this book will not make you a Java expert right away, but it will bring you to the level of an entry-level Java programmer with a better than average understanding of the fundamental concepts.

## Book Information

Textbook Binding: 696 pages

Publisher: Skylight Publishing; 3rd AP edition (February 15, 2015)

Language: English

ISBN-10: 0982477562

ISBN-13: 978-0982477564

Product Dimensions: 9.6 x 7.7 x 1.3 inches

Shipping Weight: 2.9 pounds (View shipping rates and policies)

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Best Sellers Rank: #50,162 in Books (See Top 100 in Books) #69 in [Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Object-Oriented Design](#)

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Perfect for AP computer science A

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