Computer Science
Illuminated

Nell Dale *and* John Lewis   *Fourth Edition*

Revised and updated, the *Fourth Edition* of **Computer Science Illuminated** provides readers with an engaging breadth-first overview of computer science principles and provides a solid foundation for those continuing their study of this dynamic discipline. Written by two of today's most respected computer science educators, Nell Dale and John Lewis, the text carefully unfolds the many layers of computing from a language-neutral perspective, beginning with the information layer, working through the hardware, programming, operating systems, application, and communication layers, and ending with a discussion on the limitations of computing. Separate program language chapters are available as bundle items for instructors who would like to explore a particular programming language with their students.

NEW AND KEY FEATURES OF THE *FOURTH EDITION*:

▸ A reorganized Programming Layer (Chapters 6–9) helps students understand and retain key material.
▸ Includes additional information on programming languages, providing examples from Scheme and Prolog.
▸ New sections on social networking and gaming pique students' interest by delving into these growing areas.
▸ Revised biographies detail the lives of computer science innovators.
▸ Includes new and revised ethical issues and margin notes written by the authors and contributors.

ANCILLARIES

For Students:

A companion website includes numerous engaging activities designed to help students get the most out of their course.

A collection of programming language chapters are available as low-cost bundling options. Available chapters include: Java™, C++, Python®, Alice, SQL, VB .NET®, Ruby, Perl, and JavaScript™.

For Instructors:

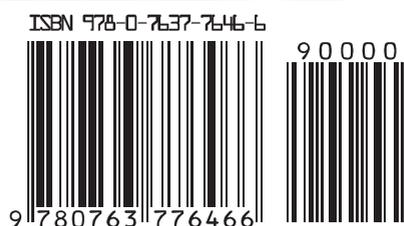Online instructor's materials include PowerPoint® lecture slides, answers to end-of-chapter exercises, and test items.

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and
Bartlett

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