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# Computer Science Illuminated



## Synopsis

Each new print copy includes Navigate 2 Advantage Access that unlocks a comprehensive and interactive eBook, student practice activities and assessments, a full suite of instructor resources, and learning analytics reporting tools. Fully revised and updated, the Sixth Edition of the best-selling text *Computer Science Illuminated* retains the accessibility and in-depth coverage of previous editions, while incorporating all-new material on cutting-edge issues in computer science. Authored by the award-winning Nell Dale and John Lewis, *Computer Science Illuminated*'s unique and innovative layered approach moves through the levels of computing from an organized, language-neutral perspective. Designed for the introductory computing and computer science course, this student-friendly Sixth Edition provides students with a solid foundation for further study, and offers non-majors a complete introduction to computing. Key Features of the Sixth Edition include: Access to Navigate 2 online learning materials including a comprehensive and interactive eBook, student practice activities and assessments, learning analytics reporting tools, and more Completely revised sections on HTML and CSS Updates regarding Top Level Domains, Social Networks, and Google Analytics All-new section on Internet management, including ICANN control and net neutrality New design, including fully revised figures and tables New and updated Did You Know callouts are included in the chapter margins New and revised Ethical Issues and Biographies throughout emphasize the history and breadth of computing Available in our customizable PUBLISH platform 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, Pascal, and JavaScript. With Navigate 2, technology and content combine to expand the reach of your classroom. Whether you teach an online, hybrid, or traditional classroom-based course, Navigate 2 delivers unbeatable value. Experience Navigate 2 today at [www.jblnavigate.com/2](http://www.jblnavigate.com/2)

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## Customer Reviews

It's been a semester since I had to buy this expensive shrink-wrapped textbook for my Intro to Computer Science class. In a text like this, topics are glossed over in an attempt to cover a wide range of ideas related to general CS. Even after a semester of CS and having gotten my feet wet in related areas (3D graphics programming, networking, and network security), I still say this text falls short of providing any real material to the budding computer scientist/engineer. The author Nell Dale's writing inadequately explains certain concepts, something which could make these first time topics even more distant, or even further confuse those - particularly those with no prior programming or computer experience, especially those taking Intro to CS as an elective. For example, our professor taught us a more adequate technique in binary arithmetic. Dale's explanations of binary arithmetic are slightly confusing, especially to the uninitiated. While the focus of the first semester was on beginning OOP with C++, we ended the semester with basic programming concepts (e.g. functions, data types, pointers, etc.) and the fundamentals of the OO paradigm (using C++). The chapter on programming paradigms, in my opinion, is utterly TERRIBLE. Although I took time outside of class to read better books on the subject, had I solely based my budding knowledge of OOP on this textbook, I would've been in trouble down the road -- I didn't understand a thing of OOP based upon this book's explanations. 3-4 pages are solely dedicated to the seemingly Stone Age concept of using "class cards". Although this textbook was a complete waste of money, my personal experience with this book was even worse because I had a professor who taught Intro to CS as if we were Software Engineering seniors.

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