The Art of Computer Programming, Vols. 1-3

By Donald E. Knuth

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For the first time in more than 20 years, Knuth has revised all three books to reflect more recent developments in the field. His revisions focus specifically on those areas where knowledge has converged since publication of the last editions, on problems that have been solved, on problems that have changed. In keeping with the authoritative character of these books, all historical information about previous work in the field has been updated where necessary. Consistent with the author's reputation for painstaking perfection, the rare technical errors in his work, discovered by perceptive and demanding readers, have all been corrected. Hundreds of new exercises have been added to raise new challenges.

Knuth's classic work has been widely acclaimed as one of the most influential works in the field of computer science. For the first time, these books are available as a boxed, three-volume set. The handsome slipcase makes this set an ideal gift for the recent computer science graduate or professional programmer. Offering a description of classical computer science, this multi-volume work is a useful resource in programming theory and practice for students, researchers, and practitioners alike. For programmers, it offers cookbook solutions to their day-to-day problems.

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Editorial Review

From the Inside Flap
"The bible of all fundamental algorithms and the work that taught many of today's software developers most of what they know about computer programming."-- Byte, Sept 1995

"If you think you're a really good programmer,...read [Knuth's] Art of Computer Programming....You should definitely send me a resume if you can read the whole thing." -- Bill Gates

This Knuth set is perfect for your own reference bookshelf, and makes an ideal gift for any serious student or practitioner of computer programming.

From the Back Cover

This multivolume work is widely recognized as the definitive description of classical computer science. The first three volumes have for decades been an invaluable resource in programming theory and practice for students, researchers, and practitioners alike.

The bible of all fundamental algorithms and the work that taught many of today's software developers most of what they know about computer programming.
–Byte, September 1995

Countless readers have spoken about the profound personal influence of Knuth's work. Scientists have marveled at the beauty and elegance of his analysis, while ordinary programmers have successfully applied his "cookbook" solutions to their day-to-day problems. All have admired Knuth for the breadth, clarity, accuracy, and good humor found in his books.

I can't begin to tell you how many pleasurable hours of study and recreation they have afforded me! I have pored over them in cars, restaurants, at work, at home… and even at a Little League game when my son wasn't in the line-up.
–Charles Long

Primarily written as a reference, some people have nevertheless found it possible and interesting to read each volume from beginning to end. A programmer in China even compared the experience to reading a poem.

If you think you're a really good programmer… read [Knuth's] Art of Computer Programming… *You should definitely send me a résumé if you can read the whole thing.*
–Bill Gates

Whatever your background, if you need to do any serious computer programming, you will find your own good reason to make each volume in this series a readily accessible part of your scholarly or professional library.

It's always a pleasure when a problem is hard enough that you have to get the Knuths off the shelf. I find that merely opening one has a very useful terrorizing effect on computers.
–Jonathan Laventhol

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About the Author

Donald E. Knuth is known throughout the world for his pioneering work on algorithms and programming techniques, for his invention of the Tex and Metafont systems for computer typesetting, and for his prolific and influential writing. Professor Emeritus of The Art of Computer Programming at Stanford University, he currently devotes full time to the completion of these fascicles and the seven volumes to which they belong.

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