



Data Structures and Algorithms in Python

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DESCRIPTION

Based on the authors' market leading data structures books in Java and C++, this textbook offers a comprehensive, definitive introduction to data structures in Python by respected authors. ***Data Structures and Algorithms in Python*** is the first mainstream object-oriented book available for the Python data structures course. Designed to provide a comprehensive introduction to data structures and algorithms, including their design, analysis, and implementation, the text will maintain the same general structure as *Data Structures and Algorithms in Java* and *Data Structures and Algorithms in C++*.

ABOUT THE AUTHOR

Michael Goodrich, PhD in Computer Science from Purdue University, 1987; Chancellor's Professor of Computer Science at University of California, Irvine; co-author (with Tamassia) of three other Wiley textbooks and a new computer security text, Addison Wesley, 2011.

Roberto Tamassia, PhD in Electrical and Computer Engineering from the University of Illinois at Urbana-Champaign, 1988; Plastech Professor of Computer Science and Chair of the CS Dept at Brown University; co-author with Goodrich, see texts above.

Michael Goldwasser, PhD in Computer Science from Stanford University, 1997; Associate Professor and Director of CS at St. Louis University; author of Object-Oriented Programming in Python, Pearson, 2008.

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FEATURES

- A primer that reviews the basics of programming in Python (Chapter 1), followed by a separate introduction to object-oriented programming in Python (Chapter 2).
 - Extensive coverage of recursion (Chapter 4).
 - A chapter describing the array-based underpinnings of Python's standard list, string, and tuple classes (Chapter 5), including both theoretical and empirical analyses of their efficiencies.
 - Source code with complete implementations of the majority of data structures and algorithms described in the book; the code follows modern standards for Python 3, and makes use of the standard collections module.
 - 500 illustrations that present data structures and algorithms in a clear, visual manner.
 - More than 750 exercises, divided into categories of reinforcement, creativity, and projects.
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