



Introduction to Programming in Python: An Interdisciplinary Approach

By Robert Sedgewick, Kevin Wayne, Robert Dondero

Download now

Read Online ➔

Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero

Today, anyone in a scientific or technical discipline needs programming skills. Python is an ideal first programming language, and ***Introduction to Programming in Python*** is the best guide to learning it.

Princeton University's Robert Sedgewick, Kevin Wayne, and Robert Dondero have crafted an accessible, interdisciplinary introduction to programming in Python that emphasizes important and engaging applications, not toy problems. The authors supply the tools needed for students to learn that programming is a natural, satisfying, and creative experience.

This example-driven guide focuses on Python's most useful features and brings programming to life for every student in the sciences, engineering, and computer science.

Coverage includes

- Basic elements of programming: variables, assignment statements, built-in data types, conditionals, loops, arrays, and I/O, including graphics and sound
- Functions, modules, and libraries: organizing programs into components that can be independently debugged, maintained, and reused
- Object-oriented programming and data abstraction: objects, modularity, encapsulation, and more
- Algorithms and data structures: sort/search algorithms, stacks, queues, and symbol tables
- Examples from applied math, physics, chemistry, biology, and computer science—all compatible with Python 2 and 3

Drawing on their extensive classroom experience, the authors provide Q&As, exercises, and opportunities for creative practice throughout. An extensive amount of supplementary information is available at introcs.cs.princeton.edu/python. With source code, I/O libraries, solutions to selected exercises, and much more, this companion website empowers people to use their own computers to teach and learn the material.

 [**Download** Introduction to Programming in Python: An Interdis ...pdf](#)

 [**Read Online** Introduction to Programming in Python: An Interd ...pdf](#)

Introduction to Programming in Python: An Interdisciplinary Approach

By Robert Sedgewick, Kevin Wayne, Robert Dondero

Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero

Today, anyone in a scientific or technical discipline needs programming skills. Python is an ideal first programming language, and ***Introduction to Programming in Python*** is the best guide to learning it.

Princeton University's Robert Sedgewick, Kevin Wayne, and Robert Dondero have crafted an accessible, interdisciplinary introduction to programming in Python that emphasizes important and engaging applications, not toy problems. The authors supply the tools needed for students to learn that programming is a natural, satisfying, and creative experience.

This example-driven guide focuses on Python's most useful features and brings programming to life for every student in the sciences, engineering, and computer science.

Coverage includes

- Basic elements of programming: variables, assignment statements, built-in data types, conditionals, loops, arrays, and I/O, including graphics and sound
- Functions, modules, and libraries: organizing programs into components that can be independently debugged, maintained, and reused
- Object-oriented programming and data abstraction: objects, modularity, encapsulation, and more
- Algorithms and data structures: sort/search algorithms, stacks, queues, and symbol tables
- Examples from applied math, physics, chemistry, biology, and computer science—all compatible with Python 2 and 3

Drawing on their extensive classroom experience, the authors provide Q&As, exercises, and opportunities for creative practice throughout. An extensive amount of supplementary information is available at introcs.cs.princeton.edu/python. With source code, I/O libraries, solutions to selected exercises, and much more, this companion website empowers people to use their own computers to teach and learn the material.

Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero **Bibliography**

- Sales Rank: #476562 in Books
- Brand: imusti
- Published on: 2015-06-12
- Original language: English
- Number of items: 1
- Dimensions: 9.10" h x 1.20" w x 7.60" l, .0 pounds
- Binding: Hardcover
- 792 pages

 **Download** [Introduction to Programming in Python: An Interdis ...pdf](#)

 **Read Online** [Introduction to Programming in Python: An Interd ...pdf](#)

Download and Read Free Online Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero

Editorial Review

About the Author

Robert Sedgewick is the William O. Baker professor of computer science at Princeton University. He has held visiting research positions at several advanced research laboratories and serves on the Adobe Systems board. He is also the coauthor (with Kevin Wayne) of *Introduction to Programming in Java and Algorithms, Fourth Edition* (both from Addison-Wesley).

Kevin Wayne is the Phillip Y. Goldman senior lecturer in computer science at Princeton University, where he has taught since 1998. He is an ACM Distinguished Educator and holds a Ph.D. in operations research and industrial engineering from Cornell University.

Robert Dondero is a lecturer in computer science at Princeton University. He has taught there since 2001, earning eight excellence in engineering education awards, and a lifetime achievement award for excellence in teaching. He holds a Ph.D. in information science and technology from Drexel University.

Users Review

From reader reviews:

Freddie Hoops:

What do you concerning book? It is not important with you? Or just adding material when you really need something to explain what your own problem? How about your free time? Or are you busy person? If you don't have spare time to do others business, it is make one feel bored faster. And you have free time? What did you do? Every person has many questions above. They should answer that question simply because just their can do that. It said that about guide. Book is familiar in each person. Yes, it is right. Because start from on jardín de infancia until university need this particular Introduction to Programming in Python: An Interdisciplinary Approach to read.

Tara Thornton:

In this 21st millennium, people become competitive in each way. By being competitive today, people have do something to make these individuals survives, being in the middle of often the crowded place and notice by surrounding. One thing that at times many people have underestimated the item for a while is reading. Yep, by reading a book your ability to survive increase then having chance to stand up than other is high. For you personally who want to start reading a book, we give you this kind of Introduction to Programming in Python: An Interdisciplinary Approach book as starter and daily reading e-book. Why, because this book is usually more than just a book.

Walter Rojas:

This book untitled Introduction to Programming in Python: An Interdisciplinary Approach to be one of several books that best seller in this year, that's because when you read this publication you can get a lot of benefit in it. You will easily to buy that book in the book retail store or you can order it by way of online. The publisher on this book sells the e-book too. It makes you easier to read this book, as you can read this book in your Mobile phone. So there is no reason for you to past this reserve from your list.

Marjorie Ishee:

Beside this Introduction to Programming in Python: An Interdisciplinary Approach in your phone, it could possibly give you a way to get nearer to the new knowledge or info. The information and the knowledge you may got here is fresh from your oven so don't always be worry if you feel like an previous people live in narrow commune. It is good thing to have Introduction to Programming in Python: An Interdisciplinary Approach because this book offers to you personally readable information. Do you sometimes have book but you seldom get what it's exactly about. Oh come on, that wil happen if you have this in your hand. The Enjoyable arrangement here cannot be questionable, like treasuring beautiful island. Use you still want to miss that? Find this book along with read it from right now!

Download and Read Online Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero #APUIBK9MFOL

Read Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero for online ebook

Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero books to read online.

Online Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero ebook PDF download

Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero Doc

Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero Mobipocket

Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero EPub

APUIBK9MFOL: Introduction to Programming in Python: An Interdisciplinary Approach By Robert Sedgewick, Kevin Wayne, Robert Dondero