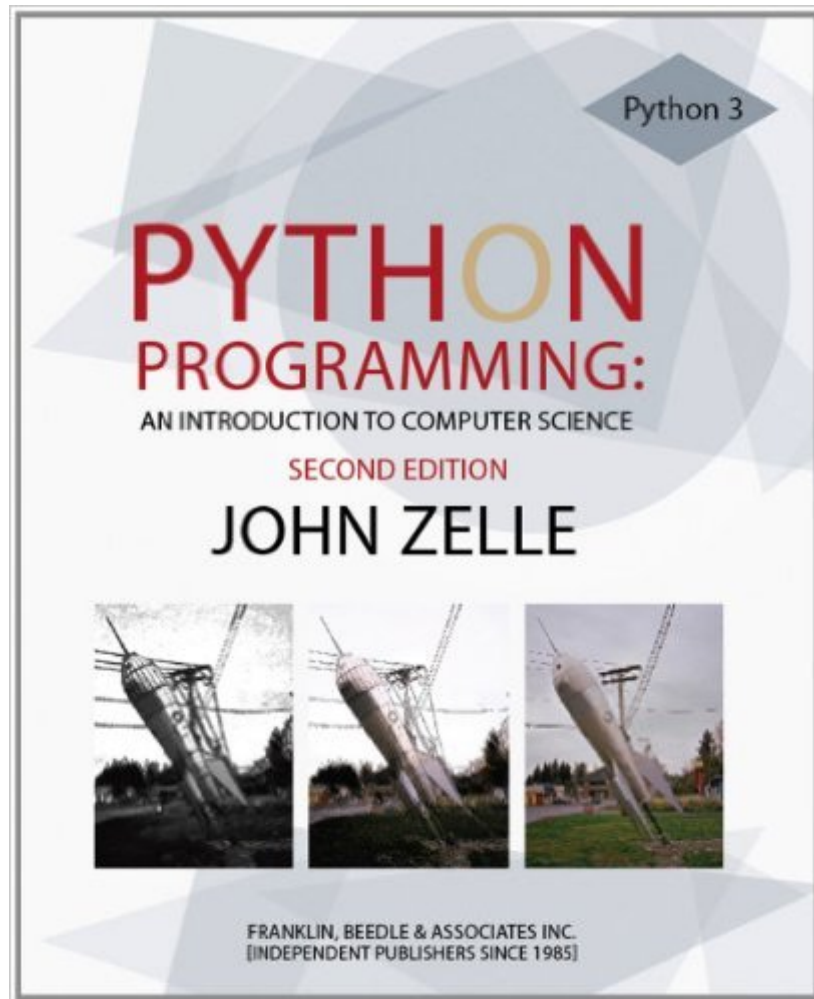# Python Programming: An Introduction To Computer Science

Synopsis

This is the second edition of John Zelle's Python Programming, updated for Python 3. This book is designed to be used as the primary textbook in a college-level first course in computing. It takes a fairly traditional approach, emphasizing problem solving, design, and programming as the core skills of computer science. However, these ideas are illustrated using a non-traditional language, namely Python.Although Python is used as the language, teaching Python is not the main point of this book. Rather, Python is used to illustrate fundamental principles of design and programming that apply in any language or computing environment. In some places, I have purposely avoided certain Python features and idioms that are not generally found in other languages.

Book Information

Paperback: 432 pages

Publisher: Franklin, Beedle & Associates; 2nd edition (May 7, 2010)

Language: English

ISBN-10: 1590282418

ISBN-13: 978-1590282410

Product Dimensions: 7 x 1.2 x 10 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 starsÂ Â See all reviewsÂ (147 customer reviews)

Best Sellers Rank: #4,039 in Books (See Top 100 in Books)   #5 inÂ Books > Computers & Technology > Programming > Languages & Tools > Python   #6 inÂ Books > Computers & Technology > Programming > Introductory & Beginning   #9 inÂ Books > Textbooks > Computer Science > Programming Languages

Customer Reviews

I'm really only a few chapters in so far, but I felt the need to express my unanswered frustrations and how this book answered them.I've always wanted to learn computer programming since I was a kid, back in the days when computers were the scary things they had in school libraries that adults were scared of getting too close to. I even bought a book on C when I was young enough to only require one digit in my age, and I didn't even own a computer and probably had only used one a few dozen times. I have throughout my life bought, attempted to learn, and failed miserably at learning programming many times. Each time I get terribly stuck and confused. I curse the writers of these books who advertise "programming for the absolute beginner" who I seem so disconnected to. I figured it was me, that maybe I wasn't smart enough, or that for some reason I just could never

learn how to do cool stuff with a computer. In my most recent spate I bought another book on computer programming - also on Python. While I did learn to do some stuff, there was still this weird disconnect.But this book is different and now I finally realize what I had been struggling with: the author *actually explains* what each programming concept does. This sounds silly - of course all programming books do that! But you'd be wrong. Apparently understanding what something like "for i in range(10):" does and what each part is for and called is in the realm of 'computer science.' It sounds stupid, but it took me a while in my first couple of attempts at learning programming in the early days, to realize (because no one actually said it), that a computer program is executed from top to bottom, left to right. A program is more like a player piano.

Python: Python Programming Course: Learn the Crash Course to Learning the Basics of Python (Python Programming, Python Programming Course, Python Beginners Course) Python: Python Programming For Beginners - The Comprehensive Guide To Python Programming: Computer Programming, Computer Language, Computer Science Python: Python Programming For Beginners - The Comprehensive Guide To Python Programming: Computer Programming, Computer Language, Computer Science (Machine Language) Beginning Python Programming: Learn Python Programming in 7 Days: Treading on Python, Book 1 PowerShell: For Beginners! Master The PowerShell Command Line In 24 Hours (Python Programming, Javascript, Computer Programming, C++, SQL, Computer Hacking, Programming) Unsupervised Deep Learning in Python: Master Data Science and Machine Learning with Modern Neural Networks written in Python and Theano (Machine Learning in Python) Deep Learning in Python Prerequisites: Master Data Science and Machine Learning with Linear Regression and Logistic Regression in Python (Machine Learning in Python) Convolutional Neural Networks in Python: Master Data Science and Machine Learning with Modern Deep Learning in Python, Theano, and TensorFlow (Machine Learning in Python) Deep Learning in Python: Master Data Science and Machine Learning with Modern Neural Networks written in Python, Theano, and TensorFlow (Machine Learning in Python) Learn Python in One Day and Learn It Well: Python for Beginners with Hands-on Project. The only book you need to start coding in Python immediately Maya Python for Games and Film: A Complete Reference for Maya Python and the Maya Python API Deep Learning: Recurrent Neural Networks in Python: LSTM, GRU, and more RNN machine learning architectures in Python and Theano (Machine Learning in Python) Python Programming Guide + SQL Guide - Learn to be an EXPERT in a DAY!: Box Set Guide (Python, C++, PHP, Swift, Os, Programming Guide) Python Programming: An Introduction to Computer Science, 3rd Ed. Practical Programming: An Introduction to Computer

Science Using Python 3 (Pragmatic Programmers) Python Programming: An Introduction to Computer Science Python Programming: Become an Expert at Python Today with Step by Step Instructions for Beginners Python: The Ultimate Crash Course for Python Programming Java: The Ultimate Guide to Learn Java and Python Programming (Programming, Java, Database, Java for dummies, coding books, java programming) (HTML, ... Developers, Coding, CSS, PHP) (Volume 3) Python: Programming, Master's Handbook; A TRUE Beginner's Guide! Problem Solving, Code, Data Science, Data Structures & Algorithms (Code like a PRO ... engineering, r programming, iOS development)