



# Guide to Programming with Python

*By Michael Dawson*

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## **Guide to Programming with Python** By Michael Dawson

Python Programming is unique and fun because of its approach: the reader learns to program through writing game programs. While it's enjoyable and engaging, the book covers plenty of fundamental computer science concepts and vocabulary. Topics include variables, memory, branching, loops, data structures, functions, file handling, exceptions, object-oriented programming, GUI programming, multimedia programming, and program planning. Even with all the power it offers to industry, Python is perfect for beginners. It has clear, simple syntax and is robust yet concise. Python Programming is the most fun way to learn the basics of programming using an easy-to-learn but powerful industry-standard programming language.

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## **Guide to Programming with Python** By Michael Dawson Bibliography

- Sales Rank: #695627 in Books
- Brand: Cengage Learning
- Published on: 2007-03-13
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 1.01" h x 7.36" w x 9.12" l, 1.81 pounds
- Binding: Paperback
- 496 pages

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Introduction 1. Getting Started: The Game Over Program 2. Types, Variables, and Simple I/O: The Useless Trivia Program 3. Branching, while Loops, and Program Planning: The Guess My Number Game 4. for Loops, Strings, and Tuples: The Word Jumble Game 5. Lists and Dictionaries: The Hangman Game 6. Functions: Tic-Tac-Toe 7. Files and Exceptions: The Trivia Challenge Game 8. Software Objects: The Critter Caretaker Program 9. Object-Oriented Programming: The Blackjack Game 10. GUI Development: The Mad Lib Program 11. Graphics: The Pizza Panic Game 12. Sound, Animation, and Program Development: The Astrocrash Game Appendix A: Livewires Reference

### **About the Author**

Michael Dawson has worked as both a programmer and a computer game designer and producer. In addition to real-world game industry experience, Dawson earned his bachelor's degree in Computer Science from the University of Southern California. He currently teaches game programming and design to students of all ages through UCLA Extension courses and private lessons. Visit his Web site at [www.programgames.com](http://www.programgames.com) to learn more or to get support for any of his books.

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