



# Think Python: An Introduction to Software Design: How To Think Like A Computer Scientist

*Allen B. Downey*

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Python for Software Design is a concise introduction to software design using the Python programming language. Intended for people with no programming experience, this book starts with the most basic concepts and gradually adds new material. Some of the ideas students find most challenging, like recursion and object-oriented programming, are divided into a sequence of smaller steps and introduced over the course of several chapters. The focus is on the programming process, with special emphasis on debugging. The book includes a wide range of exercises, from short examples to substantial projects, so that students have ample opportunity to practice each new concept. Exercise solutions and code examples are available from [thinkpython.com](http://thinkpython.com), along with Swampy, a suite of Python programs that is used in some of the exercises. \*\* Published under the terms of the GNU Free Documentation License. Money raised from the sale of this book supports the development of free software and documentation.

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