



# Think Complexity: Complexity Science and Computational Modeling

*Allen B. Downey*

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## **Think Complexity: Complexity Science and Computational Modeling** Allen B. Downey

Expand your Python skills by working with data structures and algorithms in a refreshing context—through an eye-opening exploration of complexity science. Whether you're an intermediate-level Python programmer or a student of computational modeling, you'll delve into examples of complex systems through a series of exercises, case studies, and easy-to-understand explanations.

You'll work with graphs, algorithm analysis, scale-free networks, and cellular automata, using advanced features that make Python such a powerful language. Ideal as a text for courses on Python programming and algorithms, *Think Complexity* will also help self-learners gain valuable experience with topics and ideas they might not encounter otherwise.

- Work with NumPy arrays and SciPy methods, basic signal processing and Fast Fourier Transform, and hash tables
- Study abstract models of complex physical systems, including power laws, fractals and pink noise, and Turing machines
- Get starter code and solutions to help you re-implement and extend original experiments in complexity
- Explore the philosophy of science, including the nature of scientific laws, theory choice, realism and instrumentalism, and other topics
- Examine case studies of complex systems submitted by students and readers

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