

Think Complexity

Allen Downey's Textbook manifesto

Students should read and understand textbooks.

Things you can think about

- Think Python
- **Think Complexity**
- Think Stats
- Think Bayes
- Think DSP
- *Think Java*
- *Think Data Structures*

Allen Downey's style

- Always free
- Open source code
- Wikipedia reading assignments
- Problems to work on throughout

Think Complexity

- Graphs
- **Small world graphs**
- Scale-free networks
- **Cellular Automatons**
- **Game of Life**
- Physical modeling
- Self-organized criticality
- **Agent-based models**
- Herds, Flocks, and Traffic Jams
- Game Theory