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W3T1 *Python* - IPython - Numpy and Pandas

A Brief on the first four chapters

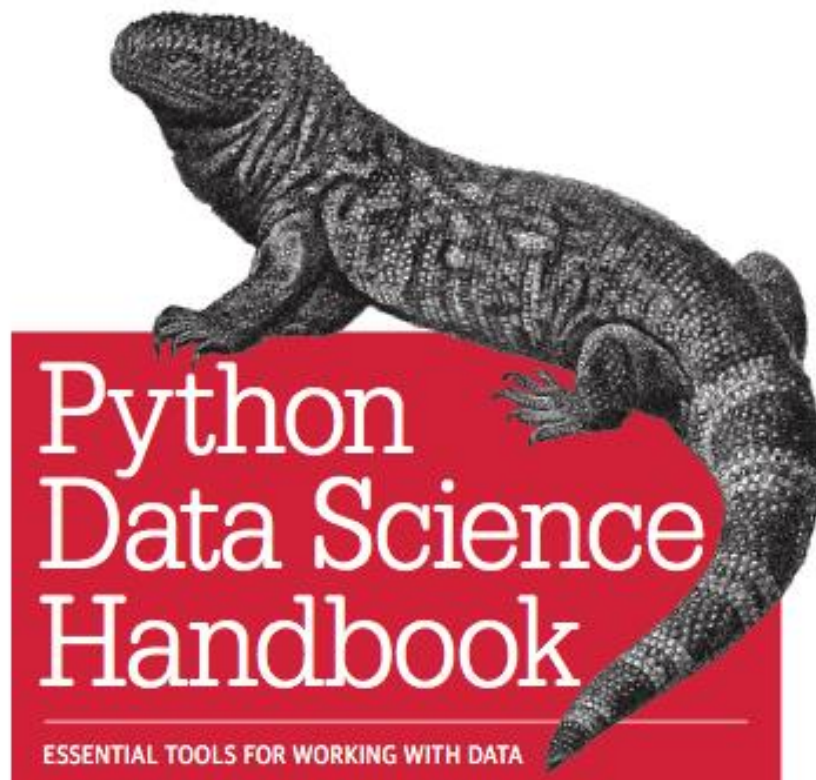


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[Chapter 1 IPython: Beyond Normal Python](#)

Chapter 1 introduces IPython, an interactive shell for Python that provides a more convenient and efficient way to work with Python than the standard Python shell. The chapter covers some of the basic features of IPython, such as tab completion, magic commands, and input/output history. VanderPlas also discusses how IPython can be used for debugging and profiling code.

[Chapter 2: Introduction to NumPy](#)

Chapter 2 is about NumPy, a Python library for numerical computing. The chapter explains how NumPy arrays work and how they can be used for mathematical operations. It also covers some of the basic functions provided by NumPy, such as universal functions and aggregation functions.

[Chapter 3: Data Manipulation with Pandas](#)

Chapter 3 is about Pandas, a Python library for data manipulation and analysis. The chapter explains how Pandas provides a convenient way to work with tabular data in Python. It covers some of the basic features of Pandas, such as data indexing and selection, handling missing data, hierarchical indexing, and combining datasets.

[Chapter 4: Visualization with Matplotlib](#)

Chapter 4 is about data visualization with Matplotlib, a Python library for creating static, animated, and interactive visualizations in Python. The chapter covers some of the basic plotting functions provided by Matplotlib, such as line plots, scatter plots, and plot legends.

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