



Mastering matplotlib

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A practical guide that takes you beyond the basics of matplotlib and gives solutions to plot complex data

About This Book

- Customize, configure, and handle events, and interact with figures using matplotlib
- Create highly intricate and complicated graphs using matplotlib
- Explore matplotlib's depths through examples and explanations in IPython notebooks

Who This Book Is For

If you are a scientist, programmer, software engineer, or student who has working knowledge of matplotlib and now want to extend your usage of matplotlib to plot complex graphs and charts and handle large datasets, then this book is for you.

What You Will Learn

- Analyze the matplotlib code base and its internals
- Re-render visualized data on the fly based on changes in the user interface
- Take advantage of sophisticated third-party libraries to plot complex data relationships
- Create custom styles for use in specialize publications, presentations, or online media
- Generate consolidated master plots comprising many subplots for dashboard-like results
- Deploy matplotlib in Cloud environments
- Utilize matplotlib in big data projects

In Detail

matplotlib is a Python plotting library that provides a large feature set for a multitude of platforms. Given the depth of the library's legacy and the variety of related open source projects, gaining expert knowledge can be a time-consuming and often confusing process.

You'll begin your exciting journey learning about the skills that are necessary in leading technical teams for a visualization project or to become a matplotlib contributor.

Supported by highly-detailed IPython Notebooks, this book takes you through the conceptual components underlying the library and then provides a detailed overview of its APIs. From there, you will learn about event handling and how to code for interactive plots.

Next you will move on to customization techniques, local configuration of matplotlib, and then deployments in Cloud environments. The adventure culminates in an exploration of big data visualization and matplotlib clustering.

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