



Mastering matplotlib

By Duncan M. McGregor

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Mastering matplotlib By Duncan M. McGregor

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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Editorial Review

About the Author

Duncan M. Mcgreggor

Duncan M. Mcgreggor, having programmed with GOTOs in the 1980s, has made up for that through community service by making open source contributions for more than 20 years. He has spent a major part of the past 10 years dealing with distributed and scientific computing (in languages ranging from Python, Common Lisp, and Julia to Clojure and Lisp Flavored Erlang). In the 1990s, after serving as a linguist in the US Army, he spent considerable time working on projects related to MATLAB and Mathematica, which was a part of his physics and maths studies at the university. Since the mid 2000s, matplotlib and NumPy have figured prominently in many of the interesting problems that he has solved for his customers. With the most recent addition of the IPython Notebook, matplotlib and the suite of the Python scientific computing libraries remain some of his most important professional tools.

Users Review

From reader reviews:

Pamela Guarino:

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