Interactive Applications Using Matplotlib

Benjamin V. Root

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Don't just see your data, experience it!

About This Book

- Bring your users and your data closer with interactive visualizations using Matplotlib and Python
- Create user interfaces from scratch without needing a GUI toolkit, or insert new visualizations into your existing applications
- Pick up interactive aspects of Matplotlib and learn how widgets can be used to interact visually with data

Who This Book Is For

This book is intended for Python programmers who want to do more than just see their data. Experience with GUI toolkits is not required, so this book can be an excellent complement to other GUI programming resources.
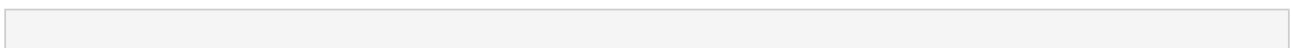
What You Will Learn

- Add keymaps, mouse button actions, and custom events to your application
- Build and record animations of your plots
- Enhance your data display with buttons,sliders, and other widgets
- Insert Matplotlib figures into any GUI application
- Create a session recorder for your application
- Learn about Matplotlib's event handler to add custom events
- See Matplotlib as more than just a plotting library

In Detail

Matplotlib makes it easy to generate plots, histograms, power spectra, bar charts, error charts, and other kinds of plots, with just a few lines of code.

Interactive Applications Using Matplotlib will teach you how to turn your plots into fully interactive applications for data exploration and information synthesis. After being introduced to the plotting library, you'll learn how to create simple figures and come to grips with how they work. After these first steps, we will start work on a weather radar application.

Next, you will learn about Matplotlib's event handler to add not only keymaps and mouse actions but also custom events, enabling our radar application to transition from a simple visualization tool into a useful severe storm tracking application, complete with animations and widgets. The book will conclude with enhancements from the GUI toolkit of your choice.

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James Edwards:

Exactly why? Because this Interactive Applications Using Matplotlib is an unordinary book that the inside of the guide waiting for you to snap this but latter it will jolt you with the secret this inside. Reading this book beside it was fantastic author who have write the book in such incredible way makes the content within easier to understand, entertaining way but still convey the meaning entirely. So , it is good for you because of not hesitating having this ever again or you going to regret it. This amazing book will give you a lot of rewards than the other book possess such as help improving your ability and your critical thinking approach. So , still want to hold up having that book? If I were being you I will go to the book store hurriedly.

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