Quick answers to common problems

matplotlib Plotting Cookbook

Learn how to create professional scientific plots using matplotlib, with more than 60 recipes that cover common use cases

Alexandre Devert

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David Kirk

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matplotlib Plotting Cookbook Alexandre Devert,2014-03-26 This book follows a cookbook style approach that puts orthogonal and non redundant recipes in your hands Rather than rehashing the user manual the explanations expose the underlying logic behind Matplotlib If you are an engineer or scientist who wants to create great visualizations with Python rather than yet another specialized language this is the book for you While there are several very competent plotting packages Matplotlib is just a Python module Thus if you know some Python already you will feel at home from the first steps on In case you are an application writer you won t be left out since the integration of Matplolib is covered   **Mastering matplotlib** Duncan M. McGreggor,2015-06-29 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 matplotib and then deployments in Cloud environments The adventure culminates in an exploration of big data visualization and matplotlib clustering   **Matplotlib 2.x By Example** Allen Yu,Claire Chung,Aldrin Yim,2017-08-28 Unlock deeper insights into visualization in form of 2D and 3D graphs using Matplotlib 2 x About This Book Create and customize live graphs by adding style color font to make appealing graphs A complete guide with insightful use cases and examples to perform data visualizations with Matplotlib s extensive toolkits Create timestamp data visualizations on 2D and 3D graphs in form of plots histogram bar charts scatterplots and more Who This Book Is For This book is for anyone interested in data visualization to get insights from big data with Python and Matplotlib 2 x With this book you will be able to extend your knowledge and learn how to use python code in order to visualize your data with Matplotlib Basic knowledge of Python is expected What You Will Learn Familiarize with the latest features in Matplotlib 2 x Create data visualizations on 2D and 3D charts in the form of bar charts bubble charts heat maps histograms scatter plots stacked area charts swarm plots and many more Make clear and appealing figures for scientific publications Create interactive charts and animation Extend the functionalities of Matplotlib with third party packages such as Basemap GeoPandas Mplot3d Pandas Scikit learn and Seaborn Design intuitive infographics for effective storytelling In Detail Big data analytics are driving innovations in scientific research digital marketing policy making and much more Matplotlib offers simple but powerful plotting interface versatile plot types and robust customization Matplotlib 2 x By Example illustrates the methods and applications of various plot types through real world examples It begins by giving readers the basic know how on how to create and customize plots by Matplotlib It further covers how to plot different types

of economic data in the form of 2D and 3D graphs which give insights from a deluge of data from public repositories such as Quandl Finance You will learn to visualize geographical data on maps and implement interactive charts By the end of this book you will become well versed with Matplotlib in your day to day work to perform advanced data visualization This book will guide you to prepare high quality figures for manuscripts and presentations You will learn to create intuitive info graphics and reshaping your message crisply understandable Style and approach Step by step comprehensive guide filled with real world examples <u>Hands-On Exploratory Data Analysis with Python</u> Suresh Kumar Mukhiya,Usman Ahmed,2020-03-27 Discover techniques to summarize the characteristics of your data using PyPlot NumPy SciPy and pandas Key FeaturesUnderstand the fundamental concepts of exploratory data analysis using PythonFind missing values in your data and identify the correlation between different variablesPractice graphical exploratory analysis techniques using Matplotlib and the Seaborn Python packageBook Description Exploratory Data Analysis EDA is an approach to data analysis that involves the application of diverse techniques to gain insights into a dataset This book will help you gain practical knowledge of the main pillars of EDA data cleaning data preparation data exploration and data visualization You ll start by performing EDA using open source datasets and perform simple to advanced analyses to turn data into meaningful insights You ll then learn various descriptive statistical techniques to describe the basic characteristics of data and progress to performing EDA on time series data As you advance you ll learn how to implement EDA techniques for model development and evaluation and build predictive models to visualize results Using Python for data analysis you ll work with real world datasets understand data summarize its characteristics and visualize it for business intelligence By the end of this EDA book you ll have developed the skills required to carry out a preliminary investigation on any dataset yield insights into data present your results with visual aids and build a model that correctly predicts future outcomes What you will learnImport clean and explore data to perform preliminary analysis using powerful Python packagesIdentify and transform erroneous data using different data wrangling techniquesExplore the use of multiple regression to describe non linear relationshipsDiscover hypothesis testing and explore techniques of time series analysisUnderstand and interpret results obtained from graphical analysisBuild train and optimize predictive models to estimate resultsPerform complex EDA techniques on open source datasetsWho this book is for This EDA book is for anyone interested in data analysis especially students statisticians data analysts and data scientists The practical concepts presented in this book can be applied in various disciplines to enhance decision making processes with data analysis and synthesis Fundamental knowledge of Python programming and statistical concepts is all you need to get started with this book **Interactive Applications Using Matplotlib** Benjamin V. Root,2015-03-24 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 *Hands-On Data Visualization with Bokeh* Kevin Jolly,2018-06-15 Learn how to create interactive and visually aesthetic plots using the Bokeh package in Python

Key Features A step by step approach to creating interactive plots with Bokeh Go from installation all the way to deploying your very own Bokeh application Work with a real time datasets to practice and create your very own plots and applications Book Description Adding a layer of interactivity to your plots and converting these plots into applications hold immense value in the field of data science The standard approach to adding interactivity would be to use paid software such as Tableau but the Bokeh package in Python offers users a way to create both interactive and visually aesthetic plots for free This book gets you up to speed with Bokeh a popular Python library for interactive data visualization The book starts out by helping you understand how Bokeh works internally and how you can set up and install the package in your local machine You then use a real world data set which uses stock data from Kaggle to create interactive and visually stunning plots You will also learn how to leverage Bokeh using some advanced concepts such as plotting with spatial and geo data Finally you will use all the concepts that you have learned in the previous chapters to create your very own Bokeh application from scratch By the end of the book you will be able to create your very own Bokeh application You will have gone through a step by step process that starts with understanding what Bokeh actually is and ends with building your very own Bokeh application filled with interactive and visually aesthetic plots What you will learn Installing Bokeh and understanding its key concepts Creating plots using glyphs the fundamental building blocks of Bokeh Creating plots using different data structures like NumPy and Pandas Using layouts and widgets to visually enhance your plots and add a layer of interactivity Building and hosting applications on the Bokeh server Creating advanced plots using spatial data Who this book is for This book is well suited for data scientists and data analysts who want to perform interactive data visualization on their web browsers using Bokeh Some exposure to Python programming will be helpful but prior experience with Bokeh is not required   Numerical Computing with Python Pratap Dangeti,Allen Yu,Claire Chung,Aldrin Yim,Theodore Petrou,2018-12-21 Understand explore and effectively present data using the powerful data visualization techniques of Python Key FeaturesUse the power of Pandas and Matplotlib to easily solve data mining issuesUnderstand the basics of statistics to build powerful predictive data modelsGrasp data mining concepts with helpful use cases and examplesBook Description Data mining or parsing the data to extract useful insights is a niche skill that can transform your career as a data scientist Python is a flexible programming language that is equipped with a strong suite of libraries and toolkits and gives you the perfect platform to sift through your data and mine the insights you seek This Learning Path is designed to familiarize you with the Python libraries and the underlying statistics that you need to get comfortable with data mining You will learn how to use Pandas Python s popular library to analyze different kinds of data and leverage the power of Matplotlib to generate appealing and impressive visualizations for the insights you have derived You will also explore different machine learning techniques and statistics that enable you to build powerful predictive models By the end of this Learning Path you will have the perfect foundation to take your data mining skills to the next level and set yourself on the path to become a sought after data science professional This Learning Path

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over 150 recipes you ll learn how to develop plots related to business intelligence data science and engineering disciplines with highly detailed visualizations Once you ve familiarized yourself with the fundamentals you ll move on to developing professional dashboards with a wide variety of graphs and sophisticated grid layouts in 2D and 3D You ll annotate and add rich text to the plots enabling the creation of a business storyline In addition to this you ll learn how to save figures and animations in various formats for downstream deployment followed by extending the functionality offered by various internal and third party toolkits such as axisartist axes_grid Cartopy and Seaborn By the end of this book you ll be able to create high quality customized plots and deploy them on the web and on supported GUI applications such as Tkinter Qt 5 and wxPython by implementing real world use cases and examples What you will learnDevelop simple to advanced data visualizations in Matplotlib Use the pyplot API to quickly develop and deploy different plots Use object oriented APIs for maximum flexibility with the customization of figuresDevelop interactive plots with animation and widgets Use maps for geographical plotting Enrich your visualizations using embedded texts and mathematical expressionsEmbed Matplotlib plots into other GUIs used for developing applicationsUse toolkits such as axisartist axes_grid1 and cartopy to extend the base functionality of MatplotlibWho this book is for The Matplotlib 3 0 Cookbook is for you if you are a data analyst data scientist or Python developer looking for quick recipes for a multitude of visualizations This book is also for those who want to build variations of interactive visualizations   **Matplotlib 3.0 Cookbook** Srinivasa Poladi,2018 Build attractive insightful and powerful visualizations to gain quality insights from your data Key Features Master Matplotlib for data visualization Customize basic plots to make and deploy figures in cloud environments Explore recipes to design various data visualizations from simple bar charts to advanced 3D plots Book Description Matplotlib provides a large library of customizable plots along with a comprehensive set of backends Matplotlib 3 0 Cookbook is your hands on guide to exploring the world of Matplotlib and covers the most effective plotting packages for Python 3 7 With the help of this cookbook you ll be able to tackle any problem you might come across while designing attractive insightful data visualizations With the help of over 150 recipes you ll learn how to develop plots related to business intelligence data science and engineering disciplines with highly detailed visualizations Once you ve familiarized yourself with the fundamentals you ll move on to developing professional dashboards with a wide variety of graphs and sophisticated grid layouts in 2D and 3D You ll annotate and add rich text to the plots enabling the creation of a business storyline In addition to this you ll learn how to save figures and animations in various formats for downstream deployment followed by extending the functionality offered by various internal and third party toolkits such as axisartist axes_grid Cartopy and Seaborn By the end of this book you ll be able to create high quality customized plots and deploy them on the web and on supported GUI applications such as Tkinter Qt 5 and wxPython by implementing real world use cases and examples What you will learn Develop simple to advanced data visualizations in Matplotlib Use the pyplot API to quickly develop and deploy different plots Use object oriented APIs for maximum flexibility

with the customization of figures Develop interactive plots with animation and widgets Use maps for geographical plotting Enrich your visualizations using embedded texts and mathematical expressions Embed Matplotlib plots into other GUIs used for developing applications Use toolkits such as axisartist axes_grid1 and cartopy to extend the base functionality of Matplotlib Who this book is for The Matplotlib 3 0 Cookbook is for you if you are a data analyst data scientist or Python developer looking for quick recipes for a multitude of visualizations This book is also for those who want to **Python Data Visualization Cookbook** Igor Milovanovic,Dimitry Foures,Giuseppe Vettigli,2015-11-30 Over 70 recipes to get you started with popular Python libraries based on the principal concepts of data visualization About This Book Learn how to set up an optimal Python environment for data visualization Understand how to import clean and organize your data Determine different approaches to data visualization and how to choose the most appropriate for your needs Who This Book Is For If you already know about Python programming and want to understand data data formats data visualization and how to use Python to visualize data then this book is for you What You Will Learn Introduce yourself to the essential tooling to set up your working environment Explore your data using the capabilities of standard Python Data Library and Panda Library Draw your first chart and customize it Use the most popular data visualization Python libraries Make 3D visualizations mainly using mplot3d Create charts with images and maps Understand the most appropriate charts to describe your data Know the matplotlib hidden gems Use plot ly to share your visualization online In Detail Python Data Visualization Cookbook will progress the reader from the point of installing and setting up a Python environment for data manipulation and visualization all the way to 3D animations using Python libraries Readers will benefit from over 60 precise and reproducible recipes that will guide the reader towards a better understanding of data concepts and the building blocks for subsequent and sometimes more advanced concepts Python Data Visualization Cookbook starts by showing how to set up matplotlib and the related libraries that are required for most parts of the book before moving on to discuss some of the lesser used diagrams and charts such as Gantt Charts or Sankey diagrams Initially it uses simple plots and charts to more advanced ones to make it easy to understand for readers As the readers will go through the book they will get to know about the 3D diagrams and animations Maps are irreplaceable for displaying geo spatial data so this book will also show how to build them In the last chapter it includes explanation on how to incorporate matplotlib into different environments such as a writing system LaTeX or how to create Gantt charts using Python Style and approach A step by step recipe based approach to data visualization The topics are explained sequentially as cookbook recipes consisting of a code snippet and the resulting visualization

Matplotlib 3.0 Cookbook Srinivasa Poladi,2018 Build attractive insightful and powerful visualizations to gain quality insights from your data Key Features Master Matplotlib for data visualization Customize basic plots to make and deploy figures in cloud environments Explore recipes to design various data visualizations from simple bar charts to advanced 3D plots Book Description Matplotlib provides a large library of customizable plots along with a comprehensive set of backends

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Cookbook starts by showing how to set up matplotlib and the related libraries that are required for most parts of the book before moving on to discuss some of the lesser used diagrams and charts such as Gantt Charts or Sankey diagrams Initially it uses simple plots and charts to more advanced ones to make it easy to understand for readers As the readers will go through the book they will get to know about the 3D diagrams and animations Maps are irreplaceable for displaying geo spatial data so this book will also show how to build them In the last chapter it includes explanation on how to incorporate matplotlib into different environments such as a writing system LaTeX or how to create Gantt charts using Python Style and approach A step by step recipe based approach to data visualization The topics are explained sequentially as cookbook recipes consisting of a code snippet and the resulting visualization **Hands-on Matplotlib** Ashwin Pajankar,2022 Learn the core aspects of NumPy Matplotlib and Pandas and use them to write programs with Python 3 This book focuses heavily on various data visualization techniques and will help you acquire expert level knowledge of working with Matplotlib a MATLAB style plotting library for Python programming language that provides an object oriented API for embedding plots into applications You ll begin with an introduction to Python 3 and the scientific Python ecosystem Next you ll explore NumPy and ndarray data structures creation routines and data visualization You ll examine useful concepts related to style sheets legends and layouts followed by line bar and scatter plots Chapters then cover recipes of histograms contours streamplots and heatmaps and how to visualize images and audio with pie and polar charts Moving forward you ll learn how to visualize with pcolor pcolormesh and colorbar and how to visualize in 3D in Matplotlib create simple animations and embed Matplotlib with different frameworks The concluding chapters cover how to visualize data with Pandas and Matplotlib Seaborn and how to work with the real life data and visualize it After reading Hands on Matplotlib you ll be proficient with Matplotlib and able to comfortably work with ndarrays in NumPy and data frames in Pandas You will Understand Data Visualization and Python using Matplotlib Review the fundamental data structures in NumPy and Pandas Work with 3D plotting visualizations and animations Visualize images and audio data Python Data Visualization Cookbook Second Edition Igor Milovanovic,Dimitry Foures,Giuseppe Vettigli,2015-11-30 Over 70 recipes to get you started with popular Python libraries based on the principal concepts of data visualizationAbout This Book Learn how to set up an optimal Python environment for data visualization Understand how to import clean and organize your data Determine different approaches to data visualization and how to choose the most appropriate for your needsWho This Book Is ForIf you already know about Python programming and want to understand data data formats data visualization and how to use Python to visualize data then this book is for you What You Will Learn Introduce yourself to the essential tooling to set up your working environment Explore your data using the capabilities of standard Python Data Library and Panda Library Draw your first chart and customize it Use the most popular data visualization Python libraries Make 3D visualizations mainly using mplot3d Create charts with images and maps Understand the most appropriate charts to describe your data Know the matplotlib hidden gems Use plot ly to share your

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