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Matplotlib Tutorials

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Course Overview

In this Course you get to learn:

- To create visualizations with Matplotlib.
- Creating simple graphs, using PyPlot to legends and layout. The advanced tutorials will focus on transformation tool, colormaps, annotations, rendering, and toolkits.
- About matplotlib and its implementation using python programming.

Matplotlib Tutorials Skills

We learn the following skills:

- Know how to have the data presented in a graphical manner in an application
- You will be ample comfortable to work with the python and its modules that are used to integrate this library in order to create an efficient application.
- Learning this course you give you an extra edge as the developers these days barely find themselves good with working on something that is even a bit complicated.

Course Features



Course Duration-
12+ Hours



Number of Courses



Verifiable
Certificates



Lifetime Access



Technical
Excellence

About Matplotlib

- Matplotlib may be defined as the python library that is used to implement the functionality of graphical representation of data in the application developed in python.
- It consists of several components that help us to plot a two-dimensional graph using the python script.

Matplotlib Tutorials

This is a Bundle Course that includes complete in-depth Matplotlib Tutorials combined into one Complete Course.

This Bundle perfectly meets the requisite of the industry and gives you a better chance of being hired as a Matplotlib Tutorials professional.

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Matplotlib for Python Developers Beginners

Section 1. Introduction

Introduction to Matplotlib

Section 2. Simple Graphs

- Simple Graphs
- Simple Graphs Continue
- More on Line Graphs
- Bar Graph
- Scatter Graph
- Using Text
- Annotation in Graph

Section 3. Using Pyplot

- Basic of Pyplot
- Basic of Pyplot Tex
- Basic Barh and Fill
- Complex Fill Demo
- Custom Dashed Lines and Bar Charts
- Inch and cms and Color Bars

Section 5. Image Tutorial

- Customizing Image
- Customizing Image Continue
- Customizing Plot
- Customizing Styles

Section 4. Sample Plot in Matplotlib

- Demo Image
- Pcolormesh and Pathpatch Demo
- Creating Streamplot
- Creating Streamplot Continue
- Ellipse Demo
- Ellipse Demo Continue
- Pie Chart
- Table Demo
- Log Demo and Polar Demo

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Matplotlib for Python Developers-Intermediate

Section 1. Introduction

- Introduction to Matplotlib Intermediate

Section 2. Legends

- Simple Working with Legend
- Simple Working with Legends Continue
- More on Legends Part 1
- More on Legends Part 2

Section 3. Figure Layout

- Basic Customizing Figure Layout
- Advance Customizing Figure Layout
- More on Customizing Figure Layout
- More Examples
- Complex Nested Gridspec

Section 4. Layout

- Constrained Layout Guide
- Constrained Layout Guide Continue
- Padding
- Spacing
- Use with GridSpec
- More on Gridspec
- Examples on GridSpec
- Examples on GridSpec Continue
- Tight Layout Guide Basic
- Tight Layout Guide Advance

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Matplotlib for Python Developers - Advanced

Section 1. Introduction

Introduction to Matplotlib

Advance Level

Section 2. Path with Effect

- Path Tutorial
- More on Path Tutorial
- Path Effect Guide

Section 3. Transformation Tutorial

- Transformation Level 1
- Transformation Level 1 and Example
- Transformation Level 2 and Example

Section 4. Colors in Matplotlib

- Colors Tutorial
- Customized Colorbars
- Creating Colormaps Basic
- Creating Colormaps Advance

Section 4. Colormap Normalization

- Logarithmic and Symmetric Logarithmic
- Power-Law and Discrete bounds
- Two Linear Ranges

Section 5. Choosing Colormaps

- Choosing Colormaps Overview
- Classes of Colormaps
- Lightness of Matplotlib Colormaps
- Lightness of Matplotlib Colormaps Continue

Section 6. Text in Matplotlib

- Basic Text Command
- Legends and Annotations
- Text Properties

Section 7. Annotations

- Basic Annotation
- Annotation Polar
- Fancy Demo
- Connectionstyle Demo
- Using Connection Patch
- Zoom Effect Between Axes

Section 8. Writing Mathematical Expression


- Simple Example
- Simple Example Continue

Section 9. Typesetting

- Saving Multipage PDF Files
- Modifying Parameters

Section 10. Text Rendering and Toolkits

- Text Rendering with LaTeX
- Simple Axes Grid
- Parasite Axes
- Anchored Artists
- RGB Axes
- Simple Axes Artist
- Axes Artist with Parasite
- Floating Axis Demo
- Axes Artist Demo
- Line 3D
- Bar 3D



Frequently Asked Questions

Why should I learn about the Matplotlib library?

The application that is being developed these days is supposed to be more efficient and loaded with lots of functionalities as compared to the traditional applications. In order to develop such kind of application, one should know how to bring graphical features in the application which can be done using this library. One should learn Matplotlib, as it gives them an edge when it comes to developing a perfect application that can present the data in a graphical manner.

How long it may take to learn Matplotlib?

Depending upon how familiar you are with python, your learning time varies. If you are a python professional and have working experience in it, you will be able to learn it in the matter of a month. The beginners who have basic exposure of python or any other programming language may take two to four months to master using this. It's also based on how many hours you give every day to learn this.



Customer Reviews

“

The course is well structured, The pace of the course is also very good and the instructor is well versed on the subject. All examples are clear and easy to understand and very applicable. I recommend taking this class if someone wants to be either familiar with data visualization.

Kevin Sebastian

”

During the initial part of the Matplotlib Tutorials, which involves the study and creation of a visual representation of data is also an art and science of itself. then we studied the objective and understanding of data visualization which was very knowledgeable. Later the common techniques and the different type of graphs used to perform data visualization. All in all a valuable course on Matplotlib.

Jeremy Sikira



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For Queries please contact:

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