15 QUESTIONS - MATPLOTLIB

Question: Which Matplotlib function is used to create a line plot?

a) plot()

b) scatter()

c) bar()

d) pie()

Answer: a) plot()

Question: In Matplotlib, what is the purpose of using the xlabel() and ylabel() functions?

a) Add legends to the plot

b) Customize the axis labels

c) Change the plot title

d) Adjust the plot size

Question: In Matplotlib, what is the purpose of the figure and axes objects?

a) Represent data points

b) Customize plot appearance

c) Store plot data

d) Define plot layout

Answer: d) Define plot layout

Question: Which type of plot is best suited for visualizing the relationship between two numerical variables?

a) Scatter plot

b) Line plot

c) Bar plot

d) Pie chart

Answer: a) Scatter plot

Question: When should you use a bar chart in data visualization?

a) To compare categorical data

b) To show data distribution

c) To display trends over time

d) To represent hierarchical data

Answer: a) To compare categorical data

Question: What type of data is typically visualized using a histogram?

a) Categorical data

b) Discrete numerical data

c) Continuous numerical data

d) Time series data

Answer: c) Continuous numerical data

Question: In a pie chart, what does the size of each slice represent?

a) Frequency

b) Proportion

c) Percentage

d) Absolute value

Answer: b) Proportion

Question: What is the purpose of adding a title to a Matplotlib plot?

a) Enhance aesthetics

b) Explain data source

c) Provide context

d) Annotate data points

Answer: c) Provide context

Question: What is the purpose of a legend in a Matplotlib plot?

a) Add color to the plot

b) Label different elements

c) Display axis values

d) Highlight specific data points

Answer: b) Label different elements

Question: How can you change the color of a line plot in Matplotlib?

a) Using the color parameter

b) Using the plot\_color method

c) Using the set\_color function

d) Using the colorize attribute

Answer: a) Using the color parameter

Question: What is the purpose of creating subplots in Matplotlib?

a) Enhance plot aesthetics

b) Combine multiple plots

c) Add annotations

d) Label data points

Answer: b) Combine multiple plots

Question: How can you add text annotations to a Matplotlib plot?

a) Using the annotate() function

b) Using the add\_text() method

c) Using the label() attribute

d) Using the text() function

Answer: a) Using the annotate() function

Question: Which Matplotlib function is used to save a plot as an image file (e.g., PNG, JPEG)?

a) plot()

b) show()

c) savefig()

d) legend()

Answer: c) savefig()

Question: What is the purpose of customizing the appearance of a Matplotlib plot?

a) Enhance aesthetics

b) Add annotations

c) Improve data accuracy

d) Simplify data visualization

Answer: a) Enhance aesthetics

Question: What is an essential consideration when creating data visualizations?

a) Use as many colors as possible

b) Choose the most complex plot type

c) Highlight outliers in the data

d) Select the most appropriate plot type

Answer: d) Select the most appropriate plot type

10 QUESTIONS - SEABORN

Quiz 1:

Q: What is the primary purpose of a violin plot in Seaborn?

A) To visualize the distribution of categorical data.

B) To display the relationship between two continuous variables.

C) To show the distribution of a single continuous variable.

D) To compare multiple categorical variables.

**Answer 1:**

**C) To show the distribution of a single continuous variable.**

Quiz 2:

Q: Asides barplot(), what other function can be used to create a bar plot in Seaborn?

A) sns.scatterplot()

B) sns.countplot()

C) sns.histplot()

D) sns.lineplot()

Answer 2:

**B) sns.countplot()**

Quiz 3:

Q: What kind of plot is suitable for visualizing the distribution of categorical data?

A) Box Plot

B) Violin Plot

C) Count Plot

D) Line Plot

Answer 3:

**C) Count Plot**

Quiz 4:

Q: Which function is used to create a plot of many columns being compared in Seaborn?

A) sns.pairplot()

B) sns.boxplot()

C) sns.scatterplot()

D) sns.histplot()

Answer 4:

**A) sns.pairplot()**

Quiz 5:

Q: What does the diag\_kind parameter in sns.pairplot control?

A) The kind of diagram used for the diagonal plots

B) The kind of diagram used for the off-diagonal plots

C) The color of the diagonal plots

D) The size of the pair plot

Answer 5:

**A) The kind of diagram used for the diagonal plots**

Quiz 6:

Q: What function can you use to create a scatter plot in Seaborn?

A) sns.barplot()

B) sns.boxplot()

C) sns.scatterplot()

D) sns.countplot()

Answer 6:

**C) sns.scatterplot()**

Quiz 7:

Q: What is the purpose of the hue parameter in Seaborn?

A) To control the size of data points in a plot

B) To specify the color palette for a plot

C) To group data points by a categorical variable and color them accordingly

D) To set the title of a plot

Answer 7:

**C) To group data points by a categorical variable and color them accordingly**

Quiz 8:

Q: Which Seaborn function is used to create a box plot?

A) sns.histplot()

B) sns.boxplot()

C) sns.barplot()

D) sns.countplot()

Answer 8:

**B) sns.boxplot()**

Quiz 9:

Q: In Seaborn, which plot is suitable for visualizing the relationship between two continuous variables?

A) Box Plot

B) Scatter Plot

C) Count Plot

D) Violin Plot

Answer 9:

**B) Scatter Plot**

Quiz 10:

Q: In Seaborn, what does the palette parameter in plotting functions control?

A) The size of the plot.

B) The color of data points.

C) The placement of data points.

D) The style of data points.

Answer 10:

**B) The color of data points.**