

Question 1

Which data visualization feature helps data scientists gain access to original data? 0 / 1 point

- Communicate data early
- Share unbiased representation of data
- Support recommendations to different stakeholders
- Explore a given dataset

Question 2

Which layer within the Matplotlib architecture generates graphics and plots quickly and easily? 1 / 1 point

- Backend Layer
- Scripting Layer
- Figure Layer
- FigureCanvas

Correct

Correct! The scripting layer is the appropriate layer for everyday purposes. It is considered a lighter scripting interface to simplify common tasks and for a quick and easy generation of graphics and plots.

3.

Question 3

Which plot library is an excellent choice for geospatial data visualization and helps to create interactive and customizable maps? 1 / 1 point

- PyWaffle
- Seaborn
- Folium
- Matplotlib

Correct

Correct! Folium is an excellent choice for geospatial data visualization and helps to create interactive and customizable maps.

4.

Question 4

What is the code for the Matplotlib magic function? 1 / 1 point

- \$matplotlib
- %matplotlib
- #matplotlib
- +matplotlib

Correct

Correct! The magic function code is %matplotlib. If the plot gets generated in a new pop window, you can enforce generating plots into a browser using this code.

5.

Question 5

What is the first step to creating an area plot? 1 / 1 point

Call the plot function

Use the show function

Add title and label to both axes

Import matplotlib as mpl

Correct

Correct! First, we import matplotlib as mpl and its scripting interface as plt.

6.

Question 6

What is a way of statistically representing the distribution of the data through five main dimensions? 1 / 1 point

Line plot

Box plot

Scatter plot

Histogram

Correct

Correct! A box plot is a way of statistically representing given data distribution through five primary dimensions. These include Minimum, First quartile, Median, Third quartile, and Maximum.

7.

Question 7

Fill in the blank. A _____ displays two variables against each other. 1 / 1 point

Scatter plot

Box plot

Pie chart

Bar chart

Correct

Correct! A scatter plot is a type of plot that displays values about typically two variables against each other. Usually, the plotting involves a dependent variable against an independent variable.

8.

Question 8

What is a Waffle Chart? 1 / 1 point

It is a popular data visualization method to present textual data in an engaging and informative manner visually.

It summarizes customer reviews or feedback to identify recurring themes or sentiments.

It assists in analyzing textual content, such as articles, blogs, or research papers, in uncovering prevalent keywords or themes.

A visualization technique representing categorical data in square tiles or cells.

Correct

Correct! Waffle charts are a visualization technique that represents categorical data in the form of square tiles or cells. These resemble a grid of equal-sized squares, with each square representing a specific value or category.

Question 9

Which tool depicts the importance of different words in the body of text? 1 / 1 point

A Word Cloud

A Box Plot

A Regression Plot

A Waffle Chart

Correct

Correct! A Word Cloud is an advanced visualization tool that depicts the importance of different words in the body of text. The more a specific word appears in a source of textual data, the bigger and bolder it appears in the word cloud.

10.

Question 10

What type of file does Folium require to create a Choropleth map of a specific region? 1 / 1 point

Json

Geo

GeoJson

HTML

Correct

Correct! To create a choropleth map of a region of interest, Folium requires a GeoJson file that includes geospatial data of the region.

Question 11

Which Folium map style is great for visualizing hill shading and natural vegetation colors? 1 / 1 point

Stamen toner

Stamen terrain

Street-level map

Open street map

Correct

Correct! Folium allows you to create different map styles using the tiles parameter. One of the map styles is stamen terrain. It is great for visualizing hill shading and natural vegetation colors.

12.

Question 12

Which tool allows you to switch between Jupyter Notebooks and standalone deployed apps and dashboards? 1 / 1 point

Matplotlib

Voilà

Streamlit

Panel

Correct

Correct! The panel allows you to easily switch between Jupyter Notebooks for creating quick data-exploration tools or as standalone deployed apps and dashboards as needed, providing flexibility in how you present and interact with your visualizations.

Question 13

What command creates a line chart using Plotly Graph Objects? 0 / 1 point

go.Figure()

px.line()

go.Scatter()

fig.show()

Question 14

What does the @app.callback decorator in Dash indicate? 1 / 1 point

It connects the input and output components.

It defines the callback function.

It specifies the input component's ID.

It specifies the output component's ID.

Correct

Correct! Whenever there is a change in the input component value, it calls the Callback function wrapped by the decorator, followed by the update to the output component children in the application layout.

Question 15

Which parameter is needed to decorate a callback function? 1 / 1 point

Input

HTML

Dash

Dash core

Correct

Correct! Output sets results returned from the callback function to a component id. The callback function receives this set input as a component id.