

# Bokeh quiz

10 out of 10 correct

1. What is Bokeh in Python?

- ☒ A data visualization library
- ☐ A database management system
- ☐ A machine learning library
- ☐ A web framework

**Explanation:** Bokeh is a Python library used for creating interactive visualizations for modern web browsers. It allows developers to build beautiful and interactive visualizations in Python with minimal coding efforts.

2. Which of the following types of charts can be created using Bokeh?

- ☐ Line charts
- ☐ Bar charts
- ☐ Scatter plots
- ☒ All of the above

**Explanation:** Bokeh offers a wide range of chart types including line charts, bar charts, scatter plots, heat maps, and many more. It also provides a range of customization options to fine-tune the appearance and interactivity of the charts.

3. What is the purpose of Glyphs in Bokeh?



- ☐ To add styling to the plot
- ☒ To define the data points to be plotted
- ☐ To create custom interactive widgets
- ☐ To specify the color scheme of the plot

**Explanation:** In Bokeh, Glyphs are visual shapes that are used to represent the data points in a plot. They define the basic geometry of the plot, such as the shape, size, and color of the markers used to represent the data.

4. Which of the following functions is used to create a scatter plot in Bokeh?

- ☐ `bokeh.plotting.line()`
- ☐ `bokeh.plotting.bar()`
- ☒ `bokeh.plotting.scatter()`
- ☐ `bokeh.plotting.heatmap()`

**Explanation:** The `bokeh.plotting.scatter()` function is used to create a scatter plot in Bokeh. This function takes the x and y coordinates of the data points as inputs, along with optional parameters for customizing the appearance and interactivity of the plot.

5. What is a Bokeh widget?

- ☐ A tool for styling the appearance of the plot
- ☐ A data structure for storing data in Bokeh
- ☒ An interactive control element in a Bokeh plot
- ☐ A programming interface for accessing Bokeh features

**Explanation:** Bokeh widgets are interactive control elements that can be added to a Bokeh plot to allow users to change the data being displayed or to adjust the appearance of the plot. Examples of Bokeh widgets include sliders, dropdown menus, and buttons.

6. Which of the following statements is true about Bokeh layouts?

- ☐ They are used to specify the location of the widgets in a plot
- ☒ They are used to organize multiple plots in a single figure
- ☐ They are used to define the data points to be plotted
- ☐ They are used to specify the color scheme of the plot

**Explanation:** Bokeh layouts are used to organize multiple plots in a single figure. They allow developers to create complex visualizations with multiple subplots, grids, and tabbed layouts.

7. Which of the following backends can be used to display Bokeh plots in a Jupyter notebook?

- ☒ `bokeh.io.output_notebook()`
- ☐ `bokeh.io.output_file()`
- ☐ `bokeh.io.show()`
- ☐ All of the above

**Explanation:** The `bokeh.io.output_notebook()` function is used to display Bokeh plots in a Jupyter notebook. This function initializes the Bokeh library to work in the Jupyter notebook environment and enables the notebook output mode.

8. How do you create a scatter plot using Bokeh?

- ☒ using the `bokeh.plotting.scatter()` function
- ☐ using the `bokeh.plotting.line()` function
- ☐ using the `bokeh.plotting.bar()` function
- ☐ using the `bokeh.plotting.heatmap()` function

**Explanation:** The `bokeh.plotting.scatter()` function is used to create a scatter plot in Bokeh. It takes in x and y coordinates of data points and various other parameters to customize the plot.

9. How do you add a title to a Bokeh plot?

- ☒ using the `plot.title()` method
- ☐ using the `plot.add_title()` method
- ☐ using the `plot.set_title()` method
- ☐ using the `plot.text()` method

**Explanation:** The `title()` method can be used to add a title to a Bokeh plot. It takes in a string as an argument which is used as the title of the plot.

10. How do you customize the color of data points in a Bokeh plot?

- ☐ using the `plot.color()` method
- ☐ using the `plot.add_color()` method
- ☐ using the `plot.line_color()` method
- ☒ using the `plot.circle_color()` method

**Explanation:** The `circle_color()` method can be used to customize the color of data points in a Bokeh scatter plot. It takes in a string argument representing the color of the data points.

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