

1.

The creator of Matplotlib was:

1 / 1 point

☐

James Gosling, a Canadian computer scientist

☐

 Daniel Johnson, a German physicist

☐

 Cleve Moler, an American mathematician and computer programmer
- ☒
- John Hunter, an American neurobiologist

✔

Correct

Correct! The creator of Matplotlib was John Hunter, an American neurobiologist.

2.

Using the inline backend, at what point can you not modify a figure?

1 / 1 point

☐

 Before it is rendered

☐

 After it is coded☒☐

✔

Correct

Correct! One limitation of this backend is that you cannot modify a figure once it's rendered. So, after rendering the figure, we cannot add, for example, a figure title or labels to its axes.

3.

Using Matplotlib magic functions which code starts the command?

1 / 1 point

☐

 %matplotlib notebook

☒

 %matplotlib☐☐

✔

Correct

Correct! The command starts with "%matplotlib," and notebook is one of the Matplotlib backends. A sign of a magic function is that it starts with "%matplotlib."

4.

What is a line plot?

1 / 1 point

☒

 It is a plot that displays information as a series of data points connected by straight lines

☐

 A plot that displays line fragments at different data points☐☐

✔

Correct

Correct! Line plots display information as a series of data points connected by straight lines.

5.

Which of the following is not a main layer of Matplotlib.

1 / 1 point

☐

 Backend

☐

 Scripting☒☐

✔

Correct

Correct! Matplotlib's three main layers are Backend Layer, Artist Layer, and Scripting Layer.

6.

True or False. Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, visualizations, and some explanatory text as well.

1 / 1 point

☒

 True

☐

 False

✔

Correct

Correct! Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, visualizations, and some explanatory text as well.

7.

Matplotlib was initially developed as what kind of tool?

1 / 1 point

☐

 Chart creation

☐

 Data analyzer☒☐

✔

Correct

Correct! Matplotlib was initially developed as an EEG and ECoG visualization tool.

8.

Which of the following are the backend layers three built-in interface classes? Select three.

1 / 1 point

☐

 Canvas

☒

 Renderer

✔

Correct

Correct! Renderer is apart of the backend layers three built-in interface classes.

☒

 Event

✔

Correct

Correct! Event is apart of the backend layers three built-in interface classes.

☒

 FigureCanvas

✔

Correct

Correct! FigureCanvas is apart of the backend layers three built-in interface classes.

9.

What is the purpose of line plots?

1 / 1 point

☒

 Line plots capture trends and changes over time, allowing us to see patterns and fluctuations.

☐

 Captures data from charts☐☐

✔

Correct

Correct! Line plots can be misleading if the scales on the axes are not carefully chosen to reflect the data accurately. Line plots capture trends and changes over time, allowing us to see patterns and fluctuations.

10.

Which of the following plots is not ideal for comparing different categories or groups? Select all that apply.

1 / 1 point

☐

 Bar plots

☒

 Pie plots

✔

Correct

Correct! pie plots are not ideal for comparing different categories or groups.

☒

 Scatter plots

✔

Correct

Correct! scatter plots are not ideal for comparing different categories or groups.

☒

 Line plots

✔

Correct

Correct! line plots are not ideal for comparing different categories or groups.