

### Question 1

Matplotlib was created by: 1 / 1 point

Daniel Johnson, a German physicist

Cleve Moler, an American mathematician and computer programmer

John Hunter, an American neurobiologist

James Gosling, a Canadian computer scientist

Correct

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

### Question 2

True or False. Using the inline backend, you cannot modify a figure after it is rendered. 1 / 1 point

True

False

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.

### Question 3

Using Matplotlib magic functions which code starts the command? 1 / 1 point

%matplotlib notebook

%matplotlib

\$matplotlib outline

%matplotlib inline

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."

### Question 4

What does a line plot display? 1 / 1 point

A line plot is used to display information on pie charts

A line plot displays information through bars on a chart

A plot that displays line fragments at different data points

Information as a series of data points connected by straight lines.

Correct

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

Question 5

Complete the following. Matplotlib's three main layers are: 1 / 1 point

FigureCanvas, Renderer, Event

Artist, Scripting, Histogram

Line2D, Rectangle, Circle

Backend, Artist, Scripting

Correct

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

Question 6

What is Jupyter Notebook used for? 1 / 1 point

A well-established data visualization library that can be integrated into different environments

A Python library with a number of different backends available

It is a tool used for creating conventional visualization tools using the plot function

An open-source web application that allows you to create and share documents that contain live code, visualizations, and some explanatory text as well

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.

Question 7

Matplotlib was initially developed as an \_\_\_\_\_ and \_\_\_\_\_ visualization tool. Select two. 1 / 1 point

ECoG

Correct

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

ECG

EEG

Correct

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

EG

Question 8

True or False. The backend layers three built-in interface classes are FigureCanvas, Renderer, and Event. 1 / 1 point

False

True

Correct

Correct! The backend layers three built-in interface classes are FigureCanvas, Renderer, and Event.

Question 9

True or False. Line plots capture trends and changes over time, allowing us to see patterns and fluctuations. 1 / 1 point

True

False

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.

Question 10

Which of the following plots is ideal for comparing different categories or groups? 1 / 1 point

Bar plots

Scatter plots

Pie plots

Line plots

Correct

Correct! Bar plots are ideal for comparing different categories or groups.