

# Quiz

## Introduction to Data Visualization Tools

1. Data visualizations are used to (check all that apply):

1 point

- ☒ explore a given dataset.
- ☐ train and test a machine learning algorithm.
- ☒ support recommendations to different stakeholders.
- ☒ share unbiased representation of data.
- ☐ perform data analytics and build predictive models.

1. Data visualizations are used to explore a given dataset and perform data analytics and build predictive models.

1 point

- ☐ True.
- ☒ False.

2. Matplotlib was created by

1 point

- ☐ Cleve Moler, an American mathematician and computer programmer.
- ☐ John Butler, an American psychologist.
- ☒ John Hunter, an American neurobiologist.
- ☐ Daniel Johnson, a German physicist.
- ☐ James Gosling, a Canadian computer scientist.

3. What are the layers that make up the Matplotlib architecture?

1 point

- ☐ Figure Layer, Artist Layer, and Scripting Layer.
- ☐ Backend Layer, FigureCanvas Layer, Renderer Layer, Artist Layer, and Scripting Layer.
- ☐ Backend\_Bases Layer, Artist Layer, Scripting Layer.
- ☒ Backend Layer, Artist Layer, and Scripting Layer.
- ☐ FigureCanvas Layer, Renderer Layer, and Artist Layer.

3. The Backend, Artist, and Scripting Layers are the three layers that make up the Matplotlib architecture.

1 point

- ☒ True.
- ☐ False.

4. Using the inline backend, you can modify a figure after it is rendered.

1 point

- ☐ True.
- ☒ False.

5. Which of the following are examples of Matplotlib magic functions? Choose all that apply.

1 point

- ☒ %matplotlib notebook
- ☐ #matplotlib notebook
- ☐ \$matplotlib outline
- ☒ %matplotlib inline
- ☐ #matplotlib inline

5. **#matplotlib notebook** is an example of Matplotlib magic functions.

1 point

- ☐ True.
- ☒ False.