



✓ **Congratulations! You passed!**
TO PASS 80% or higher

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GRADE
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Final Exam

LATEST SUBMISSION GRADE
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1. Which of the following is not true regarding data visualizations?

1 / 1 point

- ☐ Shares unbiased representation of data.
- ☐ Explores a given dataset.
- ☒ Trains and tests a machine learning algorithm.
- ☐ Supports recommendations to different stakeholders.

✓ **Correct**

2. Which of the following is not a layer in the Matplotlib architecture?

1 / 1 point

- ☒ Figure Layer
- ☐ Scripting Layer
- ☐ Artist Layer
- ☐ Backend Layer

✓ **Correct**

3. What layer allows full control and fine-tuning of the Matplotlib – the top-level container for all plot elements?

1 / 1 point

- ☐ Event layer
- ☐ Scripting layer
- ☐ Backend layer
- ☒ Artist layer

✓ **Correct**

4. The following code will create a stacked area plot of the data in the *pandas* dataframe, **area_df**, with a transparency value of 0.35?

1 / 1 point

```
import matplotlib.pyplot as plt
transparency = 0.35
area_df.plot(kind='area', alpha=transparency, figsize=(20, 10))
plt.title('Plot Title')
plt.ylabel('Vertical Axis Label')
plt.xlabel('Horizontal Axis Label')
plt.show()
```

- ☐ False.
- ☒ True.

✓ **Correct**

5. What is a way of statistically representing the distribution of the data through five main dimensions?

1 / 1 point

- ☐ Scatter plot
- ☒ Box plot
- ☐ Line plot
- ☐ Histogram

✓ **Correct**

6. A bubble plot is a variation of the scatter plot that displays one dimension of data.

1 / 1 point

- ☒ False.
- ☐ True.

✓ **Correct**

7. A waffle chart is great way to visualize data in relation to a whole, or to do what?

1 / 1 point

- ☒ Highlight progress against a given threshold.
- ☐ Identify variables that have an impact on a topic of interest.
- ☐ Summarize a set of data measured on an interval scale.
- ☐ Show frequency or importance.

✓ **Correct**

8. Which of the following is NOT TRUE regarding a word cloud?

1 / 1 point

- ☐ None of the above.
- ☐ A Word Cloud can be generated in Python using the *word_cloud* package that was developed by **Andreas Mueller**.
- ☐ A Word Cloud is a depiction of the frequency of different words in some textual data.
- ☒ A Word Cloud is a depiction of the frequency of the stopwords, such as a, the, and, in some textual data.

✓ Correct

9. Which of the following are tile styles of Folium maps?

1 / 1 point

- ☒ All of the above
- ☐ Stamen Watercolor
- ☐ OpenStreetMap
- ☐ Stamen Terrain
- ☐ Mapbox Control Room

✓ Correct

10. Stamen Terrain is the right tile style of Folium maps for visualizing and exploring river meanders and coastal zones of a given geographical area

1 / 1 point

- ☐ True.
- ☒ False.

✓ Correct

11. Plotly visualizations cannot be displayed in which of the following ways

1 / 1 point

- ☐ Displayed in Jupyter notebook
- ☐ Saved to HTML files
- ☐ Served as a pure python-build applications using Dash
- ☒ None of the above

✓ Correct

12. Which of the following statements is true for Dash?

1 / 1 point

- ☐ An open-source user interface Python library from Plotly.
- ☐ Rendered in web browser and can be deployed to servers.
- ☐ Declarative and Reactive.
- ☒ All of the above
- ☐ Easy to build GUI.

✓ Correct