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## Final Exam

Graded Quiz • 36 min

Due Feb 14, 11:59 AM +04

1. What is data visualization used for?

1 / 1 point

- ☐ Exploring a given data set.
- ☐ Sharing unbiased representations of data.
- ☐ Supporting recommendations to different stakeholders.
- ☒ All of the above.

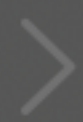
**Correct**

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

1 / 1 point

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

**Correct**



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3. The following code uses what layer to create a stacked area plot of the data in the *pandas* dataframe, **area\_df**?

**1 / 1 point**

```
ax = area_df.plot(kind='area', figsize=(20, 10)) ax.set_title('Plot Title') ax.set_ylabel('Vertical Axis Label')  
ax.set_xlabel('Horizontal Axis Label')
```

☐ None of the above☐ Scripting layer☒ Artist layer☐ Backend Layer **Correct**

4. Which of the following codes will create an unstacked area plot of the data in the *pandas* dataframe, **area\_df**, with a transparency value of 0.55?

**1 / 1 point**☐

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

☒

```
transparency = 0.55  
ax = area_df.plot(kind='area', alpha=transparency, stacked=False, figsize=(20, 10))  
ax.set_title('Plot Title')  
ax.set_ylabel('Vertical Axis Label')  
ax.set_xlabel('Horizontal Axis Label')
```

☐

```
import matplotlib.pyplot as plt  
transparency = 1 - 0.55  
area_df.plot(kind='area', alpha=transparency, stacked=False, figsize=(20, 10))  
plt.title('Plot Title')  
plt.ylabel('Vertical Axis Label')  
plt.xlabel('Horizontal Axis Label')  
plt.show()
```

☐

```
transparency = 0.35  
ax = area_df.plot(kind='area', alpha=transparency, stacked=False, figsize=(20, 10))  
ax.title('Plot Title')  
ax.ylabel('Vertical Axis Label')  
ax.xlabel('Horizontal Axis Label')
```

**Correct**

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

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

 **Correct**

6. What is a variation of the scatter plot that displays three dimensions of data?

- ☐ A scatter map
- ☐ None of the above
- ☒ A bubble plot
- ☐ A Heatmap

 **Correct**

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

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

 **Correct**



8. A word cloud is a depiction of the meaningful words in some textual data, where the more a specific word appears in the text, the \_\_\_\_\_.

1 / 1 point

- ☒ The bigger and bolder it appears in the word cloud.
- ☐ Smaller and lighter it appears in the word cloud.
- ☐ Smaller and bolder it appears in the word cloud.
- ☐ The bigger and lighter it appears in the word cloud.

✓ Correct

9. Which of the following is NOT a tile style of Folium maps?

0 / 1 point

- ☒ OpenStreetMap
- ☐ Stamen Terrain
- ☐ River Coastal
- ☐ Stamen Toner

✗ Incorrect

10. Which of the following is NOT true regarding the Stamen Terrain tile style for Folium maps?

1 / 1 point

- ☐ Showcases advanced labeling and linework generalization of dual-carriageway roads.
- ☒ Is perfect for data mashups and exploring river meanders and coastal zones.
- ☐ Features hill shading.
- ☐ Features natural vegetation colors.

✓ Correct

11. Plotly visualizations can 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
- ☒ All of the above

✓ Correct

12. Which of the following is NOT true regarding Dash core components?

1 / 1 point

- ☒ Higher-level components that are not interactive and generated with JavaScript, HTML, and CSS through the jQuery.js library.
- ☐ Higher-level components that are interactive and are generated with JavaScript, HTML, and CSS through the React.js library.
- ☐ None of the above.
- ☐ Examples are creating a slider, input area, check items, datepicker and so on.

✓ Correct