



Final Exam

Graded Quiz • 30 min

Due Sep 13, 12:29 PM IST

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

1 / 1 point

☒ share unbiased representation of data.

✓ Correct

☒ support recommendations to different stakeholders.

✓ Correct

☒ explore a given dataset.

✓ Correct

☐ train and test a machine learning algorithm.

☐ perform data analytics and build predictive models.

2. The three layers that make up the _____ architecture are the backend, the artist, and the scripting layers.

1 / 1 point



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2. The three layers that make up the _____ architecture are the backend, the artist, and the scripting layers.

1 / 1 point

- ☐ Pyplot
- ☐ Matlab
- ☐ Seaborn
- ☒ Matplotlib

✓ Correct

3. Which of the following codes uses the scripting layer to create a stacked area plot of the data in the *pandas* dataframe, **area_df**?

1 / 1 point

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



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4. Which of the following code will create a stacked area plot of the data in the *pandas* dataframe, **area_df**, with a transparency value of 0.75?

1 / 1 point

- ☒ `import matplotlib.pyplot as plt transparency = 0.75 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()`
- ☐ `import matplotlib.pyplot as plt transparency = 1 - 0.75 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()`
- ☐ `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()`
- ☐ `transparency = 0.75 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')`

✓ Correct

5. What is a circular graphic that displays numeric proportions by dividing a circle into proportional slices?

1 / 1 point

- ☒ Pie chart
- ☐ Table chart
- ☐ Bar chart
- ☐ Radial column chart



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✓ Correct

6. Which of the following is true regarding scatter plots?

1 / 1 point

- ☐ Is a useful method of comparing variables against each other.
- ☐ Looks similar to line plots in that they both map independent and dependent variables on a 2D graph.
- ☐ The data in it is considered to express a trend.
- ☒ All of the above.

✓ Correct

7. A waffle chart is a great way to visualize data in relation to a whole, or to highlight progress against a given threshold.

1 / 1 point

- ☒ True.
- ☐ False.

✓ Correct



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

1 / 1 point

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

✓ Correct

10. What is the correct tile style for Folium maps that feature hill shading and natural vegetation colors?

1 / 1 point

- ☐ OpenStreetMap
- ☐ Mapbox Bright
- ☒ Stamen Terrain
- ☐ Stamen Watercolor

✓ Correct



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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 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.
- ☐ None of the above.
- ☐ Higher-level components that are interactive and are generated with JavaScript, HTML, and CSS through the React.js library.
- ☐ Examples are creating a slider, input area, check items, datepicker and so on.

✓ Correct