

Final Exam

Latest Submission Grade **83.33%**

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

1 / 1 point

- ☐ Backend Layer

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1 / 1 point

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

✓ 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

- ☐ `ax = area_df.plot(kind='area', figsize=(20, 10)) ax.title('Plot Title') ax.ylabel('Vertical Axis Label') ax.xlabel('Horizontal Axis Label')`
- ☐ None of the above

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1 / 1 point

- ☐ `ax = area_df.plot(kind='area', figsize=(20, 10)) ax.title('Plot Title') ax.ylabel('Vertical Axis Label') ax.xlabel('Horizontal Axis Label')`
- ☐ None of the above
- ☒ `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')`

 **Correct**

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

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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()`
- ☐ `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()`
- ☐ `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')`
- ☒ `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()`

 Correct

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

1 / 1 point

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1 / 1 point

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

✓ 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.

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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 great way to visualize data in relation to a whole, or to do what?

1 / 1 point

- ☒ Highlight progress against a given threshold.
- ☐ Summarize a set of data measured on an interval scale.
- ☐ Show frequency or importance.

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

✓ Correct

8. What is a depiction of the meaningful words in some textual data, where the more a specific word appears in the text, the bigger and bolder it appears?

1 / 1 point

- ☐ A Waffle Chart
- ☒ A Word Cloud

8. What is a depiction of the meaningful words in some textual data, where the more a specific word appears in the text, the bigger and bolder it appears?

1 / 1 point

- ☐ A Waffle Chart
- ☒ A Word Cloud
- ☐ A Box Plot
- ☐ A Regression Plot

✓ Correct

9. Which of the following is an incorrect statement regarding Folium?

1 / 1 point

- ☐ Folium is a powerful Python library that helps you create several type of Leaflet maps.
- ☐ Folium builds on the data wrangling strengths of the Python ecosystem and the mapping strengths of the

9. Which of the following is an incorrect statement regarding Folium?

1 / 1 point

- ☐ Folium is a powerful Python library that helps you create several type of Leaflet maps.
- ☐ Folium builds on the data wrangling strengths of the Python ecosystem and the mapping strengths of the Leaflet.js library.
- ☒ Folium is available by default and does not need to be installed.
- ☐ The Folium results are interactive, which makes this library very useful for dashboard building.

✓ 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

0 / 1 point

- ☒ True.
- ☐ False.

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Graded Quiz • 36 min

Due Nov 22, 1:29 PM +0530

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

0 / 1 point

☒ True.

☐ False.

 Incorrect

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

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11. Plotly visualizations can be displayed in which of the following ways

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- ☒ All of the above

✓ Correct

12. Which of the following is not a Dash component?

0 / 1 point

- ☒ Core
- ☐ HTML
- ☐ None of the above
- ☐ CSS

✗ Incorrect