EdX and its Members use cookies and other tracking technologies for performance, analytics, and marketing purposes. By using this website, you accept this use. Learn more about these technologies in the Privacy Policy.





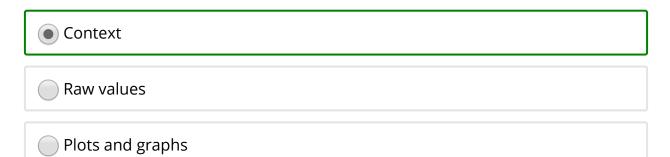
Course > Week 5... > Quiz: ... > Week 5...

Week 5 Quiz

Multiple Choice

1/1 point (graded)

When thinking about data visualization, what element is critical in making you value the visualization?





Answer

Correct: Video: "Role of Visualization"

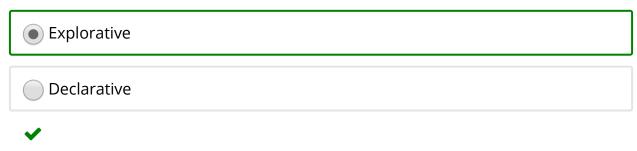
Submit

Multiple Choice

1/1 point (graded)

You are given a data set that contains crime reports for different neighborhoods in

New York City and told to analyze it. Would you consider this a declarative or explorative example?



Answer

Correct: Video: "Types of Visualization"

Submit

Multiple Choice

1/1 point (graded)

Which is an example of conceptually driven data visualization?

- Physicists visualize the well-understood relationship between force and acceleration to teach introductory physics students.
- Doctors try to explore the relationship between a drug and the effect it has on their patients using data visualization.
- Realtors visualize a data set containing rental listings and the amount of interest they attract.



Answer

Correct: Video: "Types of Visualization"

Submit

Multiple Choice

1/1 point (graded)

Which is NOT a quality of good data visualization according to Andy Kirk?

Trustworthy
Accessible
Elegant
Meaningful



Answer

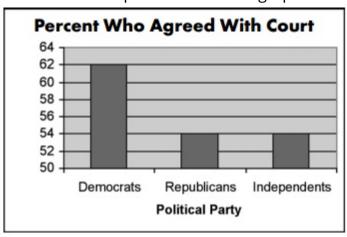
Correct: Video: "Key Design Principles"

Submit

Multiple Choice

1/1 point (graded)

What is the main problem with this graph?



- It is not trustworthy because the y-axis is misleading.
- It provides no meaningful results.
- There is no clear purpose of this visualization.
- It could be more elegant.
- It is politically biased.



Answer

Correct: Video: "Key Design Principles"

Submit

Checkboxes

1/1 point (graded)

What 2 things are most important in creating elegant visualizations?

Focus on what is relevant. Remove anything which isn't adding to the figure. Use a unique style. Make sure the your visualization is trustworthy. **Answer** Correct: Video: "Key Design Principles" Video: "Key Design Principles" Video: "Key Design Principles" Video: "Key Design Principles" Submit **Multiple Choice** 1/1 point (graded) What is the first step with any dataset? Research all of the background information. Perform an initial exploration. Verify the findings that others have found.

Answer

Correct: Video: "World Development Indicators"

Submit

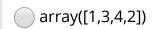
Multiple Choice

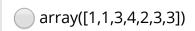
1/1 point (graded)

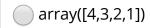
What is the result of the following line of code?

import numpy as np
np.unique([1,1,3,4,2,3,3])











Answer

Correct: Video: "World Development Indicators"

Submit

Multiple Choice

1/1 point (graded)

Which command allows you to edit the view of the axes on a matlibplot plot?



plot()	
axis()	
arange()	
Answer Correct: Video: "Basic Plotting in Matplotlib Part 1" Submit	
Multiple Choice 1/1 point (graded) When is it NOT acceptable to avoid axis labels in plots using matlibplot. When you are simply exploring the data and know their values.	
When you are presenting non-intuitive results to another person.	
When the labels can be determined by the values (e.g., percentage correct, years).	
Answer Correct: Video: "Basic Plotting in Matplotlib Part 1" Submit	

Multiple Choice

1/1 point (graded)

As an example, let's consider a data set consisting of two variables, one representing how long students spend studying and the other representing their average test scores. Assuming students study effectively, how would you expect

these two variables to be correlated?
Positively correlated because I would expect the test scores to go up if they spend more time studying.
Negatively correlated because as the test scores go down, students should spend more time studying.
No correlation because these variables should be independent.
Answer Correct: Video: "Basic Plotting in Matplotlib Part 2" Submit
Multiple Choice 1/1 point (graded) Which graphing method should you use to visualize the correlation between two arrays?

Histogram
Barplot
Scatter plot



Answer

Correct: Video: "Basic Plotting in Matplotlib Part 2"

Submit

Multiple Choice

1/1 point (graded)

Which of the following does a boxplot NOT show you?

Median
Interquartile range
Min and max values
Mean



Answer

Correct: Video: "Matplotlib Additional Examples"

Submit

Multiple Choice

1/1 point (graded)

Which library can you use to easily create geographic overlays?



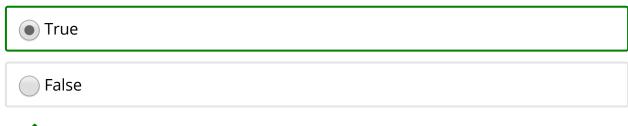
Folium

NumPy
Matlibplot
☐ IPython
Answer Correct: Video: "Folium Example" Submit
Multiple Choice 1/1 point (graded) In the case study on cholera, people attributed poor smells to the source of the disease and thought weaker people were more susceptible to the disease. When drawing these conclusions, what mistake was made?
Not recognizing positive correlations.
Mistaking correlation for causation.
Believing there was no correlation.
Answer Correct: Video: "Case Study 1: Cholera" Submit

True or False

1/1 point (graded)

Outliers can sometimes be critical to finding convincing answers when analyzing data.





Answer

Correct: Video: "Case Study 1: Cholera"

Submit

Multiple Choice

1/1 point (graded)

Think back to France's Russian Campaign case study. What made this visualization so special?

- The figure contained the study hypothesis, process, and conclusion in one image.
- The figure showed how each data set was related to the others.
- The figure showed a process that can be easily replicated.
- The figure represented many encoded types of data to depict a story.



Answer

Correct: Video: "Case Study 2: Napoleon's March"

Submit

© All Rights Reserved