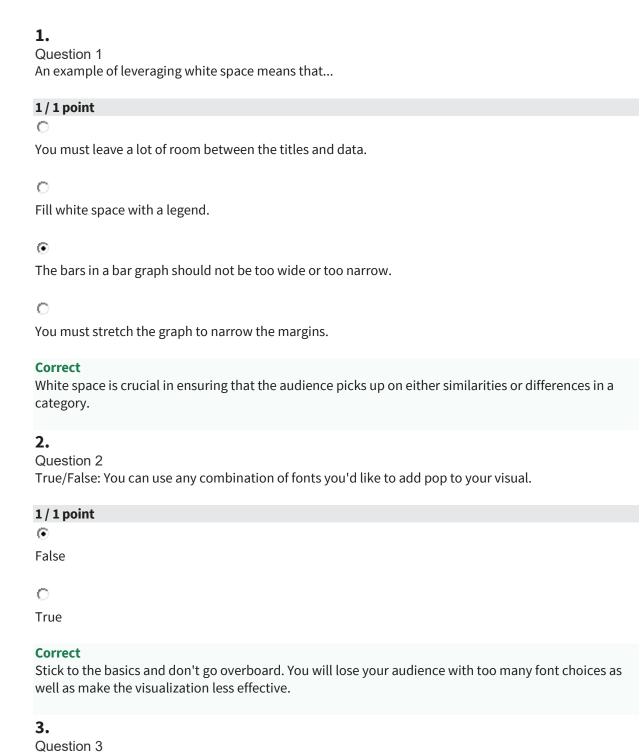
Essential Design Principles for Tableau

Module 3

https://www.coursera.org/learn/dataviz-design/home/welcome



1/1 point

Choose the most appropriate way to design a visualization.

Do not coordinate the color of the text with the color of the category.
C Add a paragraph in small font as a footnote to the visualization to explain every nuance of the data.
•
Choose a corporate or a standard font that is consistent and easy to read.
0
Use a fun font like Comic Sans to get the reader's attention.
Correct Some organizations require you to use the right fonts, but if that's not the case, be conservative in your choice of typeface.
4.
Question 4 True/False: The Gestalt principle of proximity and the first law of geography are closely related.
1/1 point
True
0
False
Correct
Tobler's first law of geography and the Gestalt principle of proximity are virtually the same thing.
5.
Question 5 The Gestalt principle of proximity does not mean
1/1 point
•
If a data point is not close to other points then it is not related at all.
0
Things that are close to each other are more likely to be related than those that are further apart.
Correct
Just because a data point isn't close doesn't mean it's not related. If fact, the lack of proximity can help gain insight into the data.

What would be the best guess for why there were Cholera deaths of people outside of the

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neighborhood of the polluted water pump?

6.

Question 6

1/1 point
O
The researcher was wrong about determining what were polluted pumps.
0
Polluted water was not the cause of Cholera. There must be some other cause.
•
The victims who lived outside of the hot spot consumed water from the polluted pump despite living further away from the pump.
C
The victims died of something other than Cholera.
Correct
Do not infer without evidence that the data are "wrong" or the science is wrong or the epidemiology is wrong. The most likely explanation is that the polluted water pump was still responsible even if the victim didn't live nearby.
7.
Question 7 What other attributes were used in the Cholera map to ascertain which water pump was polluted?
1/1 point
•
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Color and size Cymmetry Cymmetry Continuity Cymmetry Correct
Color and size Symmetry Continuity Closure
Color and size Symmetry Continuity Closure Correct Strategically adding other attributes can strengthen the case you are making.
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Color and size Cosymmetry Continuity Closure Correct Strategically adding other attributes can strengthen the case you are making. 8. Question 8 True/False: If you're careful and thoughtful you can re-scale complex data to help aid in accessibility of your data.

0
False
Correct The data was to see the second standing a second standing to the second standing second standing to the second standing second s
The data must never be manipulated in a way that falsifies the story, but calculating indexes and other techniques can help the audience understand the underlying data.
teeningues can help the addictive understand the underlying data.
9.
Question 9
True/False: It is unacceptable to use more than one type of pre-attentive attribute.
1/1 point
Ó .
True
•
False
Correct
You should be very systematic and strategic in choosing which pre-attentive attributes to use.
Sometimes it's one, other times it will be more than one.
10
10. Question 10
Outliers may be
1 / 1 point
Always something to be concerned about
0
Deleted from the dataset
beteted from the dutaset
O
Safely ignored after looking for them
Interesting in its own way and an analyst must understand the context
Interesting in its own way and an analyst must understand the context
Correct
Outliers must be understood before you figure out how to answer questions about your data. They
could be coding errors, but they could be important in and of itself.

11.

Question 11

In the lessons, we saw a strip plot, scatterplot, histogram, and control charts being used to investigate unusual data. Which of the following visualizations would be another good way to check for outliers?

1/1 point
O
A bar chart that has a very small bar that indicates that there is likely outliers.
0
A line chart which shows a very large spike in one time period.
•
A map for data are within a defined geographic range (such as cities in a particular state or province) and there are a couple of points that are out of the expected range.
0
A pie chart that shows a very small slice for one category means those are outliers.
Correct
The other options are all summary visuals and tend to be poor ways to check for outliers. Those could be outliers but the only way to know for sure is to visually disaggregate the data, like in a map.
12.
Question 12 True/False: Because a control chart is often used in manufacturing and heavy industry, paying attention to aesthetics and pre-attentive attributes is not as important.
1/1 point
C
True
•
False
Correct Careful use of color and other aesthetics are about making it easy for people to identify important
elements.
12
13. Question 13
Exploratory analysis is?
1/1 point
•
Understanding your data well to facilitate explanatory analysis.
0
Playing around with the data in an aimless way.
C
Something that should be ignored if you have a clearly defined question.

0
Learning about outliers.
Correct One shouldn't do explanatory analysis without doing at least some exploratory analysis of the data.
14. Question 14 Anscombe's quartet showed
1/1 point
•
Correlation is causation.
⊙
Visualizations are necessary and complements summary statistics.
C
Visualizations are sufficient.
0
Summary statistics are not helpful in any way because they mask problems with the data.

Correct

It seems trivial now, but both summary statistics and visualizations are crucial to understanding the data you have.