Week 4 Quiz

15/16 points (93.75%)

Quiz, 16 questions

| Congratulations! You passed! | Next Item |
|--|--------------------------------|
| | |
| 1 / 1 points | |
| The hourglass model is a framework for structuring effective business presentation NOT part of the hourglass model? Choose all that apply. | ons. Which of the following is |
| A complete description of all the analyses you tried | |
| Correct Although the hourglass model does mention agendas, it does not recommend presentation with an agenda unless that's what your company culture requires recommends that you only present a few key analyses in a logical order, not ev tried. | . Further, it |
| Opening your presentation with an agenda | |
| Correct Although the hourglass model does mention agendas, it does not recommend presentation with an agenda unless that's what your company culture requires recommends that you only present a few key analyses in a logical order, not ev tried. | . Further, it |
| Statement of the benefits that will result based on your recommendation | S |
| Un-selected is correct | |
| A 30-60 second presentation of the "big picture" of the problem you are to | rying to solve |
| Un-selected is correct | |



15/16 points (93.75%)

2. Quiz, 16 questions Beginning your business presentation in the middle of the plot of a motivational story can sometimes be an effective way to lead into your business recommendation.

| 0 | True |
|---|------|
| | |

Correct

Correct! Beginning your business presentation in the middle of the plot of a motivational story can create a sense of momentum and expectation for what will come next, which can sometimes be an effective way to lead into your business recommendation.

| False | | | |
|-------|--|--|--|
| | | | |



1/1 points

3.

The storyboarding process includes:

- asking for feedbackdetermining the precise order in which the scenes will be organized
- choosing the best visualizations to communicate the information of each scene
- narrowing in on the minimum number of scenes necessary to convey your data story
- all of the above

Correct

Correct! The storyboarding process includes all of these components.



1/1 points

4.

According to the psychology literature, if the business recommendation you are going to make in a business presentation is likely to be controversial, you should order the stem of your presentation hourglass so that the:

most emotional story point is presented first.

| 8/29/2018 | Data Visualization and Communication with Tab | leau - Home Coursera |
|-------------------------|---|----------------------------------|
| strong | est story point is presented first. | |
| Week 4 Quiz least co | ontroversial point is presented first. | 15/16 points (93.75%) |
| of agreemer | ple are more likely to be persuaded by an argument if you nt first, so starting with your least controversial point will g you present them with something to which they might wa | get your audience used to saying |
| least co | omplicated story point is presented first. | |
| | | |



1/1 points

The logical fallacy of overgeneralization can be avoided by removing outliers and rows with missing data.

TRUE FALSE

Correct

You're right! The outliers or missing data may share common characteristics, so removing them without prior examination could bias your data. If the data are biased, removing them will lead to overgeneralized conclusions.



1/1 points

6.

To test whether a certain advertising campaign would work, an analytics team sorts their customer list from lowest to highest customer ID number, and then sends their advertisement to the first 1000 customers on the list. The rest of the customers did not receive any advertisements that week. When analyzing the results of the campaign one week later, the analytics team realized that there was a previously unknown pattern in the customer ID numbers: the lower the customer number, the longer the person had been a customer. Thus, the customers who received the advertisement were the individuals who had been customers with the company the longest. The analytics team decided the test was invalid and needed to be repeated. The reason for their decision was that analyzing the results in their current form would result in the following logical fallacy (or fallacies):



Over-generalization

Correct

| of tl 6 ques con pur | Chasing using a test, the testing group used was systematically different from the control group Quizest of the customers) in ways other than whether or not they received an advertisement (93 ne customers in the testing group would have been customers longer than the customers in the tions trol group, so it would have been impossible to differentiate whether any observed differences in chasing between the two groups were due to the advertisement, or due to how long customers interacted with the company. |
|-------------------------------|--|
| | Inferring causation from correlation |
| | Lack of controls |
| | All of the above |
| | None of the above |
| | 1/1 |
| 7. | points |
| | points two variables are correlated, one variable does not cause the other variable. True |
| | two variables are correlated, one variable does not cause the other variable. |
| When Corr You | two variables are correlated, one variable does not cause the other variable. True False |
| When Corr You | two variables are correlated, one variable does not cause the other variable. True False ect fre right! Although a correlation between two variables does not mean one variable must cause the |
| Corr You other | two variables are correlated, one variable does not cause the other variable. True False ect fre right! Although a correlation between two variables does not mean one variable must cause the er variable, it still permits the possibility that one variable causes the other. |

Correct

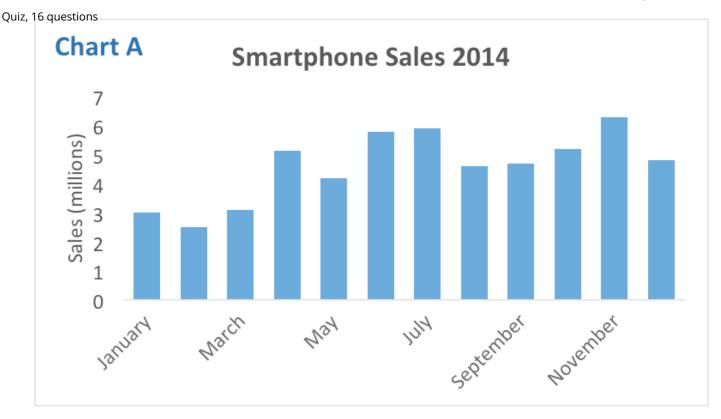
Correct! As we saw in the graphs of spurious correlations, just because a correlation is very strong, doesn't mean that it will be observed again or represents a causal relationship.

| Attempt to replicate the effect by examining whether the correlation on which you are | e basing your |
|--|-----------------------|
| Week 4 Quiz | 15/16 points (93.75%) |
| Quiz, 16 questions Correct | |
| Correct! As we saw in the graphs of spurious correlations, just because a correlation is very doesn't mean that it will be observed again or represents a causal relationship. | y strong, |
| Assess whether there are additional variables that can explain the relationship. | |
| Correct | |
| Correct! As we saw in the graphs of spurious correlations, just because a correlation is very doesn't mean that it will be observed again or represents a causal relationship. | / strong, |
| Infer that if the observed effect is extremely large or obvious, it is likely real. | |
| Un-selected is correct | |
| | |
| | |
| | |
| 1/1 | |
| points | |

9.

Which of these charts would be the best way to display how Smartphone sales have changed over time?

Week 4 Quiz 15/16 points (93.75%)



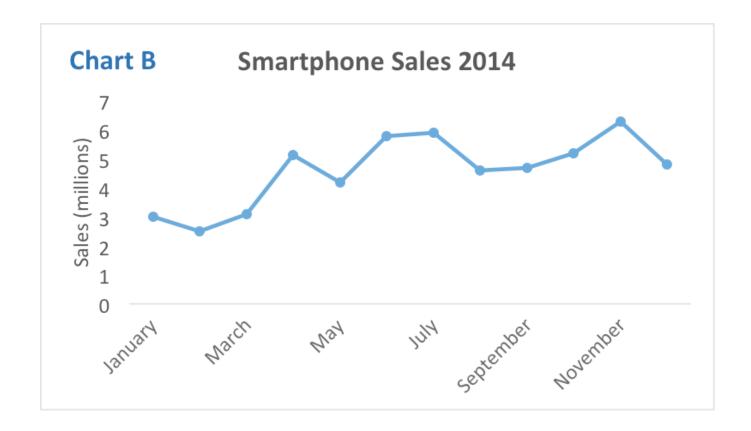


Chart A and Chart B are equally effective

| A | | | 15/16 points (9 |
|------------------------|--|--|--|
| Chart A nor Chart B i | s effective | | |
| В | | | |
| of sequential relation | ship. Bar graphs are b | petter for displaying sep | |
| | | | |
| y to perceive relative | differences along diff | ferent kinds of visual att | ributes, which of the followin |
| | | | |
| is correct | | | |
| | | | |
| is correct | | | |
| ו | | | |
| e best at perceiving d | ifference in length. | | |
| on | | | |
| | | | |
| i i | aturally follow the line of sequential relations in that don't necessarily to perceive relative ould you exploit in you is correct is correct | aturally follow the lines on the chart and in of sequential relationship. Bar graphs are in that don't necessarily have a sequential relations of the control of the contro | aturally follow the lines on the chart and interpret them as if the proof sequential relationship. Bar graphs are better for displaying sep in that don't necessarily have a sequential relationship. 1 |

Un-selected is correct

Week 4 Quiz

15/16 points (93.75%)

Quiz, 16 questions



1/1 points

11.

If you are in a situation where you MUST use colorbars to represent detailed information about a continuous variable, you should:



use a gray scale that goes from black to white.

Correct

Correct! Black to white scales tend to have more even transitions than do color scales, so what you perceive as 1 unit of change in color is more likely to represent 1 unit of physical distance along a grayscale colorbar than a multi-colored colorbar.

| use a colorbar that color-blind people can perceive. |
|---|
| use colors that are very bright so that they can easily be detected. |
| use colorbars that only have gradations from one color to a second color so that the audience isn't distracted by excess color. |



1/1 points

12.

Visualizations for persuasion should: (Choose all that apply)



direct your audience's eyes to the precise points of the data that support your argument.

Correct

Correct! Visualizations for analysis should often show as much data as possible, but visualizations for persuasion should filter to show only the data that supports the argument you are making.

| show as much data as possible. |
|--------------------------------|
| |

Un-selected is correct

show selected pieces of data.

| - | | | | | | |
|---|---|---|---|---|---|---|
| c | n | r | r | Δ | r | t |

| WEEK 4 OUIZ persuasion should filter to show only the data that supports the argument you are making 15/16 points (93.75%) | Correct! Visualizations for analysis should often show as much data as possible, but visualization | s for |
|--|--|-------------------|
| personal interest of street and and an arrangement you are a marriage. | $Week^{Correct!}$ Visualizations for analysis should often show as much data as possible, but visualizations persuasion should filter to show only the data that supports the argument you are making. 15/16 | 5 points (93.75%) |

Quiz, 16 questions

| | п | |
|---|---|--|
| | | |
| _ | _ | |

show the visualizations in an order that helps your audience evaluate the options clearly.

Correct

Correct! Visualizations for analysis should often show as much data as possible, but visualizations for persuasion should filter to show only the data that supports the argument you are making.



1/1 points

13.

Data-ink refers to:

| | the color of the ink used to represent data. |
|---|---|
| | all the ink on a slide. |
| | the ink that is used to make the borders of the data in graphs. |
| 0 | the ink that represents the actual data in a graphic. |



Correct

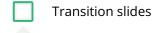
Edward Tufte, a statistician and political scientist who became a pioneer in data visualization, coined the term when he began using the phrase "Maximize the data-ink ratio."



1/1 points

14.

It's a good idea to apply the rule of thirds to: (Choose all that apply)



Correct

Data slides should display the data in the center of the slide and thus do not follow the rule of thirds.

| 8/29/2018 | Data Visualization and Communication with Tableau - Home Coursera Slides illustrating stories |
|-----------------------|---|
| Week 4. Quiz, 16 @ast | |
| | Soft break slides |
| Corr Data | ect a slides should display the data in the center of the slide and thus do not follow the rule of thirds. |
| | Slides meant to catch your audience's attention |
| Corr Data | ect a slides should display the data in the center of the slide and thus do not follow the rule of thirds. |
| Lines . | Slides containing data elected is correct |
| UII-S | elected is correct |
| ~ | 1 / 1 points |
| 15. Effectiv | ve presentation techniques include: |
| | keeping a physically open posture by keeping your arms away from the front of your body |
| | facing your audience and looking at different people in the room |
| | being natural in your movements |
| | refraining from looking down or reading your slides. |
| 0 | all of the above |

Correct! All of these techniques will greatly improve how your presentation is received.

0/1



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| | 15/16 points (93.75% |
|---|---|
| related consul conver absent rates d compa | ital was having problems with the amount of time employees with direct care responsibilities were from work. Due to the high levels of absenteeism, patient satisfaction was declining, 20% of patient-levels was not getting done, and 47% of non-patient work was not getting done. At the advice of a ting company, the hospital implemented a positive incentive system that would allow all employees to true to 24 hours of unused sick time into additional pay or more vacation days in order to reduce eeism. After 6 months of implementing the program, the hospital analysts calculated that absentee eclined an average of 11.5 hours per employee, and concluded that the program was successful in this ny. Did the hospital analysts commit any logical fallacies when arriving at their conclusion, and if so, fallacy (or fallacies)? |
| 0 | Overgeneralization |
| Logi | should not be selected call fall facilities can be tricky to identify. Watch the videos in the lesson <i>Incorrect Conclusions Based ack of Controls or Comparisons</i> to review how each logical fallacy plays out. |
| Logi | cal fallacies can be tricky to identify. Watch the videos in the lesson <i>Incorrect Conclusions Based</i> |
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