Started on	Thursday, 17 October 2024, 2:49 PM
State	Finished
Completed on	Thursday, 17 October 2024, 2:52 PM
Time taken	3 mins 5 secs
Grade	**20.00** out of 20.00 (**100**%)

Question **1**
Correct
Mark 2.00 out of 2.00

One of the Rules of Thumb in InfoVis regards 3D, namely:

- ⦿ a.   3D should be used very carefully because it can cause perspective distortion and occlusion ✓
- ○ b.   3D should be used when possible because it provides an additional channel to represent our data
- ○ c.   3D should be used when possible in geographical representations to depict altitude and sea level
- ○ d.   3D should be avoided at all costs because it's hands-down ugly

Your answer is correct.

Question **2**
Correct
Mark 1.00 out of 1.00

The Trifecta Checkup...

- ○ a.   Aims at summarizing the Rules of Thumb in InfoVis
- ⦿ b.   Is a framework for analyzing InfoVis, articulating between *Question*, *Data* and *Vis.* ✓
- ○ c.   Is a framework to aid in avoiding chart junk.
- ○ d.   Aims at helping create good visualizations through the harmonization of three factors: the data-ink ratio the lie factor and the selected colors.

Your answer is correct.

Question 3

Correct

Mark 2.00 out of 2.00

How can we leverage "Recognition rather than recall" in InfoVis?

- ○ a.   That is a Nielsen's Heuristic, not relevant to InfoVis.
- ● b.   Providing animated transitions instead of abrupt cuts to allow the users to keep track of changes ✓
- ○ c.   Through well-designed treemaps
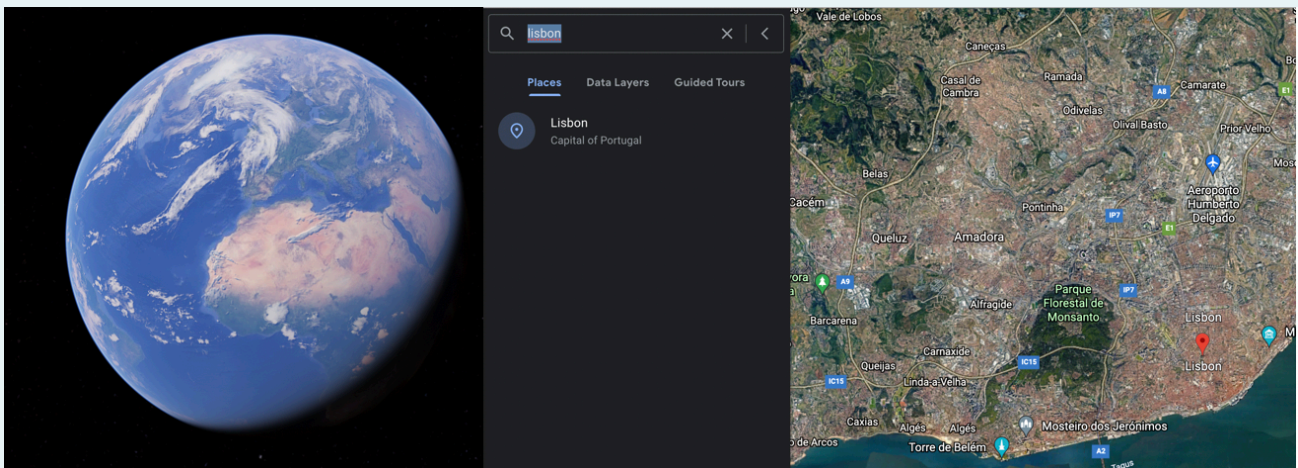- ○ d.   Relying on pre-attentive channels

Your answer is correct.

Question 4

Correct

Mark 1.00 out of 1.00

What rule of thumb are we following here?

- ○ a.   Expressiveness principle
- ○ b.   Responsiveness
- ● c.   Overview, zoom&filter, details on demand ✓
- ○ d.   Resolution over Immersion

Your answer is correct.

Question **5**

Correct

Mark 2.00 out of 2.00

Which idioms *generally* pass the Self-Sufficiency test?

○ a.   Line charts, treemaps, dot maps and 3D bar charts

◉ b.   Radar charts, line charts, unit area charts and bar charts ✓

○ c.   Pie charts, area charts and unit area charts

○ d.   Choropleths, radar charts and area charts

Your answer is correct.

Question **6**

Correct

Mark 1.00 out of 1.00

All things considered, which is the lesser evil?

○ a.   Proportionality errors

○ b.   Axis scale manipulation

◉ c.   Pie charts ✓

○ d.   Distortion

Your answer is correct.

Question **7**

Correct

Mark 2.00 out of 2.00

The Data-Ink Ratio...

◉ a.   Consists of the ratio between the ink in data and the ink used in the chart ✓

○ b.   Was created by Edward Tufte and aims at avoiding charts with non-zero baselines

○ c.   Was created by Jakob Nielsen as a means to measure "chart junk"

○ d.   Consists subtracting the ink in data from the ink used in the chart

Your answer is correct.

Question **8**

Correct

Mark 1.00 out of 1.00

Which encoding is more prone to lying?

- ○ a.   Treemaps
- ○ b.   Pie charts
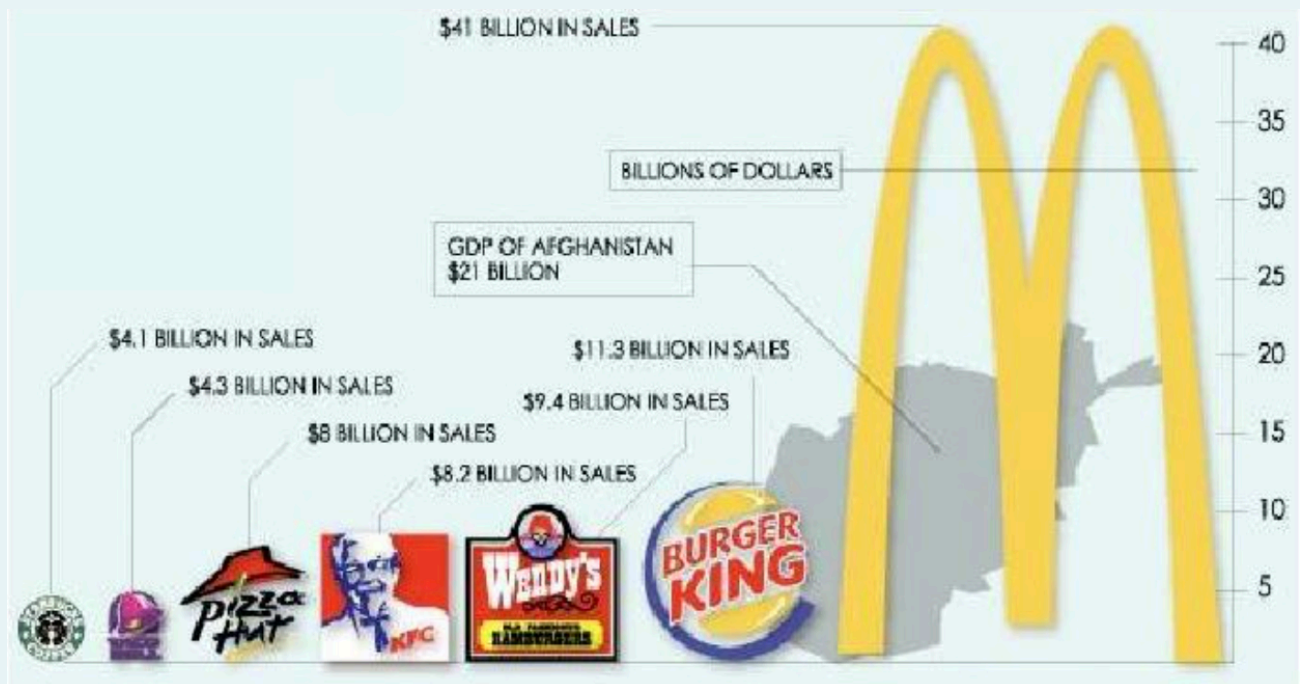- ○ c.   Bar charts
- ◉ d.   Choropleths ✔

Your answer is correct.

Question **9**

Correct

Mark 2.00 out of 2.00

What is NOT chart junk here?

- ○ a.   The map on the background
- ○ b.   The text connected to each "bar"
- ◉ c.   Trick question. There's junk all over! ✔
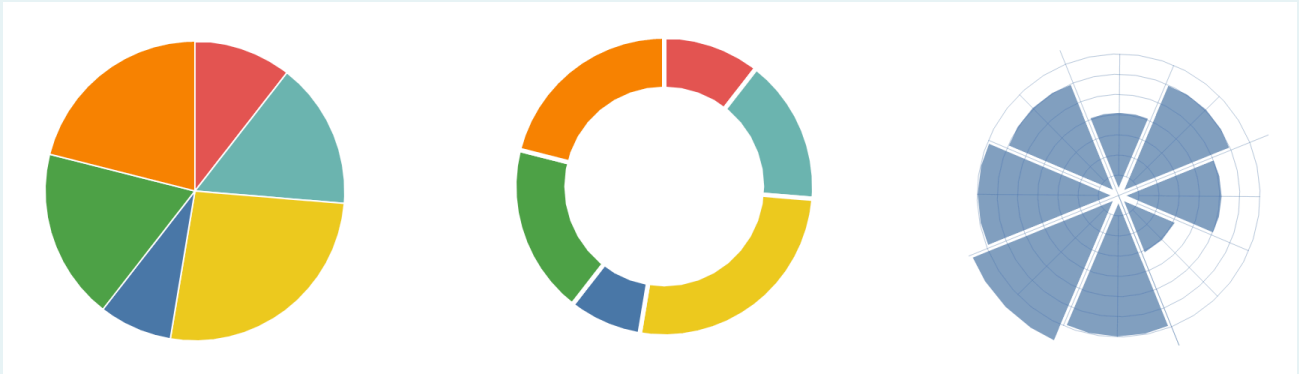- ○ d.   The "bars" (logos)

Your answer is correct.

Question **10**

Correct

Mark 1.00 out of 1.00

Which one is generally better?

- ○ a.   The wedge chart, in general, is better because it relies on length rather than just on area+angle ✓
- ○ b.   All three at always bad and totally to avoid.
- ○ c.   The pie chart is the best because it's the most familiar.
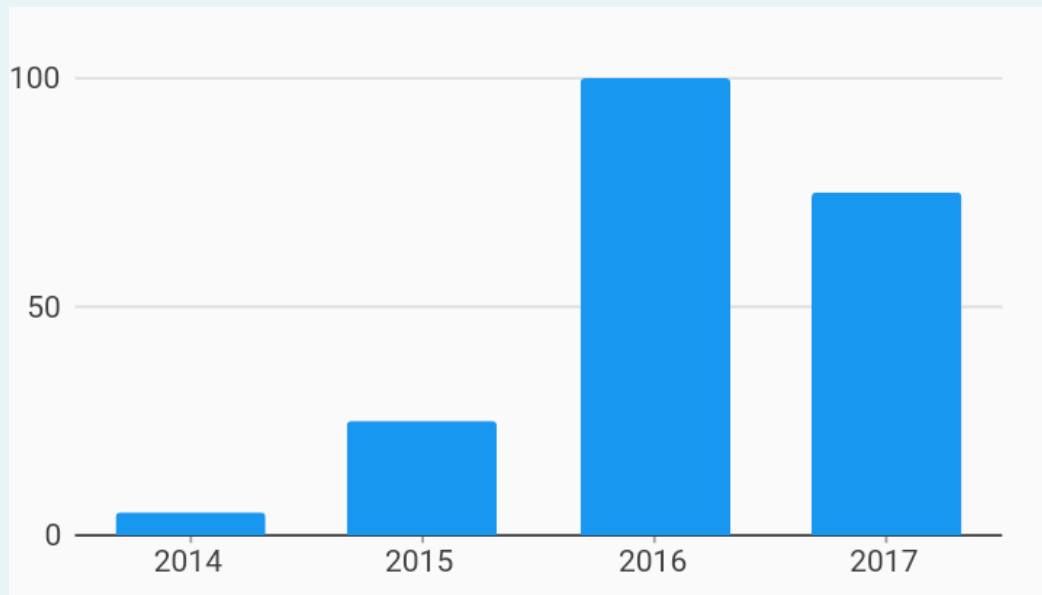- ○ d.   The donut chart is the best because it's visually cleaner than the pie chart.

Your answer is correct.

Question **11**

Correct

Mark 2.00 out of 2.00

Imagine that this chart represents the number of people who bought refillable water bottles from 2014 to 2017. Does it work?

○ a. No, because colors are too saturated.

◉ b. Yes, because it does not have chart junk and the baseline starts at 0. ✓

○ c. Yes, even though humans are not good at interpreting length.

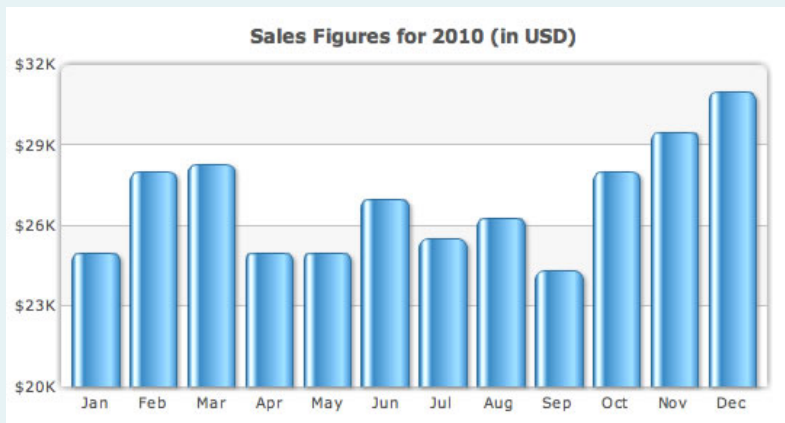○ d. No, because it is difficult to interpret. A pie chart would do the trick...

Your answer is correct.

Question **12**

Correct

Mark 1.00 out of 1.00

What is the main problem with this chart?

- a.   The absence of derived measures.
- b.   The Y axis does not start at 0. ✔
- c.   There is a lot of chart junk.
- d.   3D bars difficult interpretation.

Your answer is correct.

Question **13**

Correct

Mark 2.00 out of 2.00

The lie factor...

- a.   Is lower in distorted representations
- b.   Is the ratio between the size of the effect in the chart and the size of the effect in data ✔
- c.   Is the ratio between the size of the effect in the data and the size of the effect in chart
- d.   Have you just made that up?

Your answer is correct.