Q9 (through Visualization 4)

⚠ **This is a preview of the published version of the quiz**

Started: Dec 14 at 9:50am

Quiz Instructions

Question 1	0.1 pts

What is the best way to best describe the relationship between DataFrame (of the pandas module) and GeoDataFrame (of the geopandas module)?

○ A DataFrame can do everything a GeoDataFrame can do, and more

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○ While both data types have much in common, they both have some features that the other lacks

Question 2	0.2 pts

You want to make an animation smoother, so you double the number of frames. What else should you do so that the video does not become longer or shorter?

○ halve the DPI

○ double the DPI

○ halve the xlim

○ double the interval

○ double the xlim

○ halve the interval

Question 3   0.1 pts

Which CRS (Coordinate Reference System) effectively treats an area of the earth as flat?

○ Latitude/Longitude

○ The .shp projection

○ EPSG:4326

○ EPSG:32616

Question 4   0.2 pts

Say we run the following, which involves three shapely shapes.

```
s3 = s1.difference(s2)
```

Afterwards, we observe that s3 has the same area as s1. What can we guarantee?

○ s2.difference(s1) would produce the same shape as s3

○ s2 partially overlaps with s1

○ s2 perfectly overlaps with s1

○ the area of s1 does not overlap with the area of s2

○ s2 is smaller than s1, but still has area > 0

○ s2 has area equal to 0

Question 5   0.1 pts

What is geocoding?

○ converting coordinates to addresses

○ encoding political boundaries as polygons

○ assigning zip codes to coordinates

○ converting addresses to coordinates

Question 6   0.1 pts

To correctly compute distance, what units should the variables be in?

x1 = ????
x2 = ????
y1 = ????
y2 = ????
distance = ((x1-x2)**2 + (y1-y2)**2) ** 0.5

Choose the best answer.

○ x and y values should be in meters

○ x values should be latitude and y values should be longitude

○ y values should be latitude and x values should be longitude

○ x and y values should be in degrees

Question 7   0.1 pts

To have a "sharper" image, we need:

○ lower DPI

○ higher DPI

Question 8   0.1 pts

A circle is hidden beneath a square. If you want to see the circle, what could you do?

○ increase alpha of the square

○ increase alpha of the circle

○ increase z order of the circle

○ decrease z order of the circle

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