

# Chapter 7 Module Quiz

Due 7 Jun at 23:59	Points 10	Questions 10	Available until 12 Jun at 23:59	Time limit None
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## Instructions

This is a graded quiz worth 1% of your course grade. The quiz covers the key learning objectives of Chapter 7.

### Attempt history

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	955 minutes	10 out of 10

Score for this quiz: **10** out of 10  
Submitted 31 May at 19:05  
This attempt took 955 minutes.

Correct!

Question 1

1 / 1 pts

Which one of the following is a legitimate reason to use spatial data visualisation?

☐ It can make boring data interesting.

☒ Data exhibits spatial autocorrelation.

☐ Most data can be linked to a location.

☐ Maps are cool.

Correct!

Question 2

1 / 1 pts

Which of the following is a drawback of the Raster Data Model for spatial data visualisation?

☐ Requires proprietary file types

☒ As resolution increases, file size increases

☐ Not suited to continuous data

☐ Not suited to discrete data

Question 3

1 / 1 pts

Map projection is best defined by which one of the following:

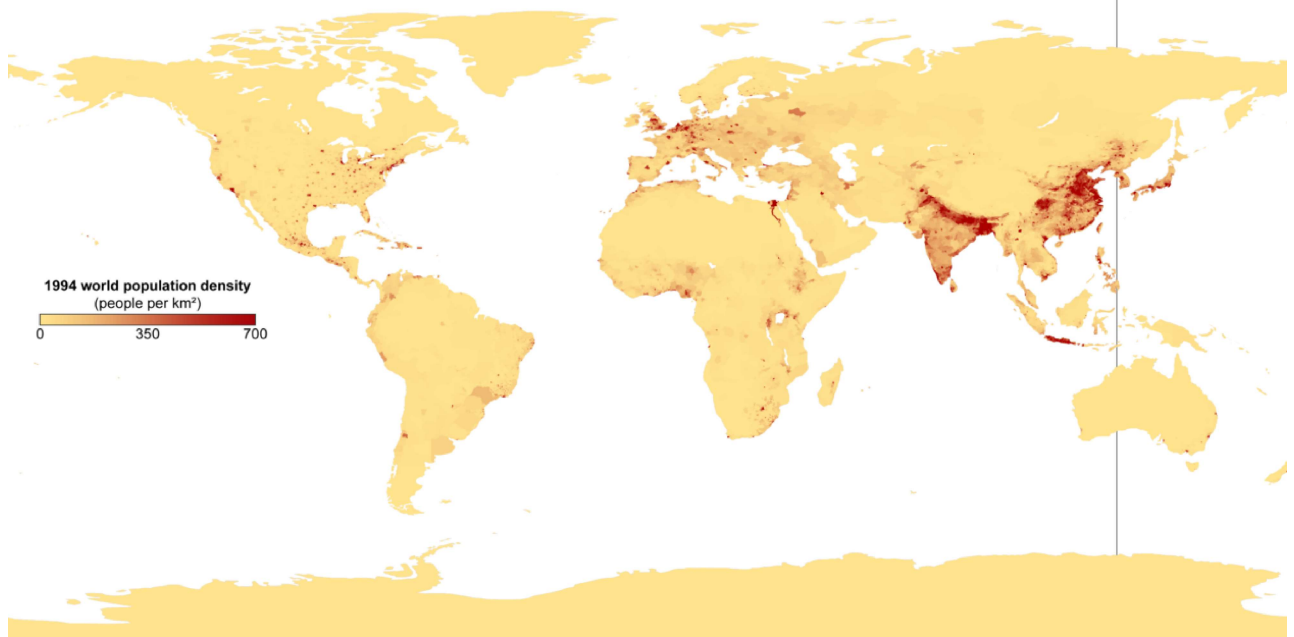
Correct!

- ☒ Representing a 3D geographical space using 2 dimensions
- ☐ Presenting a map using an overhead projector
- ☐ Using your map to predict the future.
- ☐ Scrunching up your map and throwing it at an unsuspecting colleague

#### Question 4

1 / 1 pts

This image shows the number of people per square kilometre around the world in 1994. The data were derived from population records based on political divisions such as states, provinces, and counties. This spatial data visualisation is an example of which one of the following plots?



Correct!

- ☐ Dot density map
- ☐ Isarithmic map
- ☒ Choropleth map
- ☐ Point map

#### Question 5

1 / 1 pts

Which of the following is a limitation of a choropleth map?

Correct!

- ☐ When there are many regions or polygons, spatial trends become difficult to discern
- ☒ Choropleth maps rely on the use of colour scales, which lack visual accuracy
- ☐ Choropleth maps can only be drawn using commercial software
- ☐ The regions/polygons visualised cannot represent summary statistics

### Question 6

1 / 1 pts

Which of the following is the best example of a continuous spatial feature?

Correct!

- ☐ Roads
- ☐ Rivers
- ☐ Properties
- ☒ Temperature

### Question 7

1 / 1 pts

Which one of the following is an example of a spatial reference system?

Correct!

- ☐ Street address
- ☒ Universal Transverse Mercator coordinate system
- ☐ Countries
- ☐ Local government areas

### Question 8

1 / 1 pts

Why is setting the colour scale correctly for a choropleth map so important?

Correct!

- ☒ Changes to the colour scale can have drastic effects on the appearance of the map.

- ☐ To ensure the map polygons are drawn correctly.
- ☐ To avoid issues with colour blindness.
- ☐ To maximise preattentive processing.

**Question 9**

1 / 1 pts

Why might it be useful to simplify a .shp file?

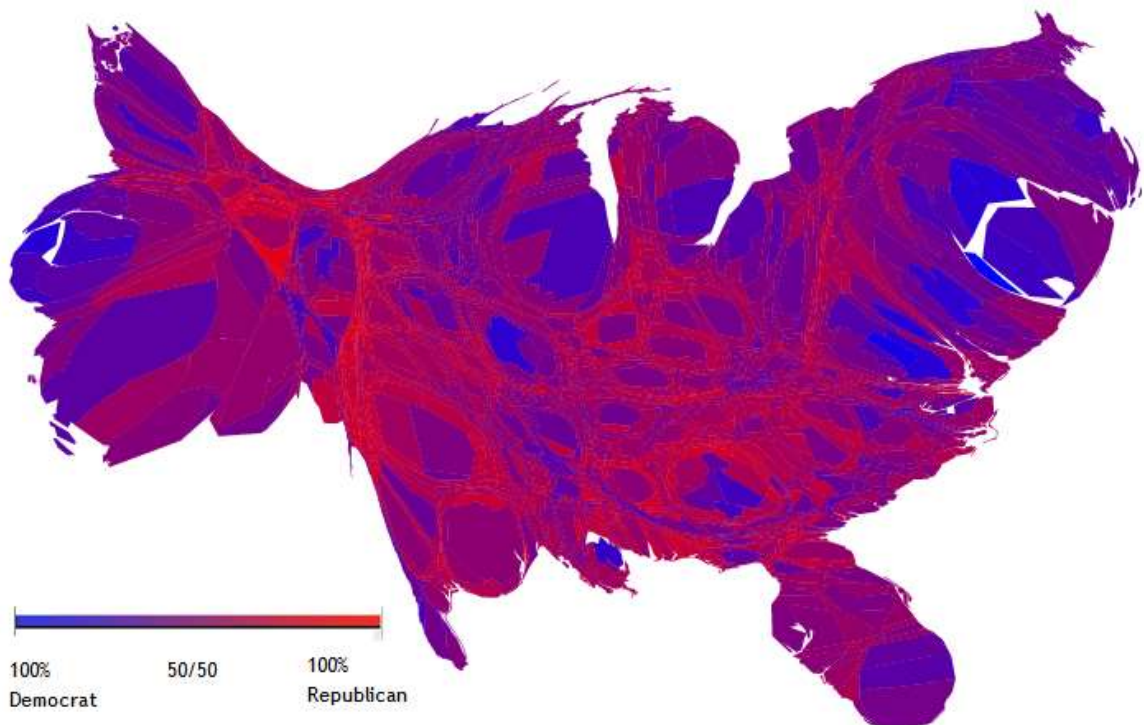
**Correct!**

- ☒ To reduce the size of the file for quicker plotting of polygons.
- ☐ To reduce the complexity of the map.
- ☐ To increase the readability of the map.
- ☐ To merge a spatial data set with a data frame.

**Question 10**

1 / 1 pts

The following map taken from Wikipedia shows the proportion of the popular vote for the 2004 presidential election as a colour for each county of the US. Each county's size on the map has also been rescaled to represent its population size. This is an example of which type of spatial data visualisation?



(<https://commons.wikimedia.org/wiki/File:Cartlinearlarge.png#/media/File:Cartlinearlarge.png>)

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(<https://commons.wikimedia.org/w/index.php?curid=10523106>)

- ☐ Choropleth map
- ☐ Proportional symbol map
- ☐ Dot Density map
- ☒ Cartogram

Correct!

Quiz score: **10** out of 10