Chapter 6 Module Quiz

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

Instructions

This is a graded quiz worth 1% of your course grade. The quiz covers the key learning objectives of Chapter 6.

Attempt history

	Attempt	Time	Score
LATEST	Attempt 1	960 minutes	10 out of 10

Score for this quiz: **10** out of 10
Submitted 31 May at 19:09
This attempt took 960 minutes.

Question 1

1 / 1 pts

What issue might you encounter when you lattice by more than one variable?

Correct!

- (•) Data sparsity
- ( ) Over-plotting
- ( ) R crashes frequently
- ( ) Complex coding required by ggplot2.

Question 2

1 / 1 pts

There are many strategies for visualising multivariate data. Which one of the following is NOT a recommended strategy covered in Chapter 6?

Correct!

- (•) Dual axis plot
- ( ) Faceting
- ( ) Mapping additional aesthetics
- ( ) Using purpose built multivariate data visualisations

Question 3

1 / 1 pts

Which one of the following is a limitation of a parallel coordinates system?

- Cannot deal with variables with vastly different scales.

Correct!

- Limits the number of relationships visualised based on the order in which variables are presented.

- Cannot differentiate between positive and negative relationships.
- Strong correlations are hard to see.

Question 4

1 / 1 pts

If you facet a data visualisation with the panels forming one column and many rows, e.g.

Panel 1
Panel 2
Panel 3
Panel ...

which axis will the viewer find it easy to compare positions?

- x*y

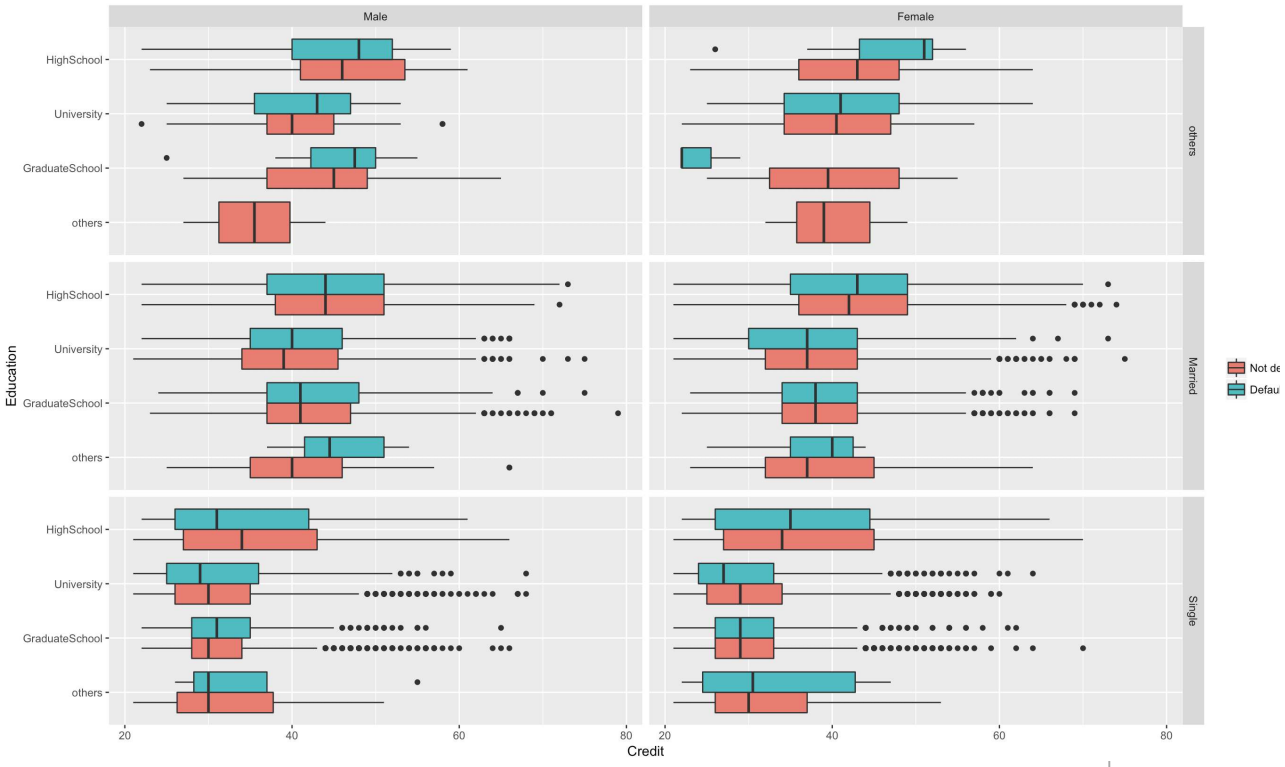
Correct!

- x
- z
- y

Question 5

1 / 1 pts

How many variables are visualised in the attached visualisation?



- 6
- 4
- 5 — Correct!
- 3

Question 6

1 / 1 pts

What is the maximum number of variables advised to use for faceting?

- 1
- 4
- 2 — Correct!
- 3

Question 7

1 / 1 pts

What's considered to be the maximum number of variables to use in a single plot?

- 5
- 4
- 2
- Correct! 3

Question 8

1 / 1 pts

Which one of the following visualisations is a better representation of data used in a 3D scatter plot?

- Side-by-side boxplox
- Sankey diagram
- Correct! Matrix scatter plot
- Parallel coordinates

Question 9

1 / 1 pts

Sankey diagrams are well suited to which one of the following data visualisation tasks?

- Correct! Visualising the flow of a system or process.
- When comparing distributions of a quantiatative variable between levels of a factor.
- Exploring intercorrelations between many variables.
- Checking a data set for outliers.

Question 10

1 / 1 pts

What is the main limitation of a heatmap?

Correct!

- (selected) Relies on a colour scale to represent a quantiative variable.
- Cannot visualise quantiative variables.
- Take up a large amount of space.
- Only suited to spatial data.

Quiz score: **10** out of 10