

This is a Quiz Preview. When this quiz is both published (by the quiz creator) and visible to students, they can find it [here](#).

## Lecture 01B: data visualization

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**Warning:** You have already made the maximum number of submissions. Additional submissions will not count for credit. You are welcome to try it as a learning exercise.

This quiz is based on the 3 video lectures:

- Visualization (1): time-series plots
- Visualization (2): bar plots
- Visualization (3): box plots

You have 1 attempt for the quiz. Please double check your answers before submitting.

Solutions will be released when the quiz closes, at 09:20am, Friday, 09 January 2015.

In accordance with the Coursera Honor Code, I (Kevin Dunn) certify that the answers here are my own work.

### Question 1

Are you aware that Chapter 1 from the course textbook, <http://learnche.mcmaster.ca/pid> contains material that covers this section of the course?

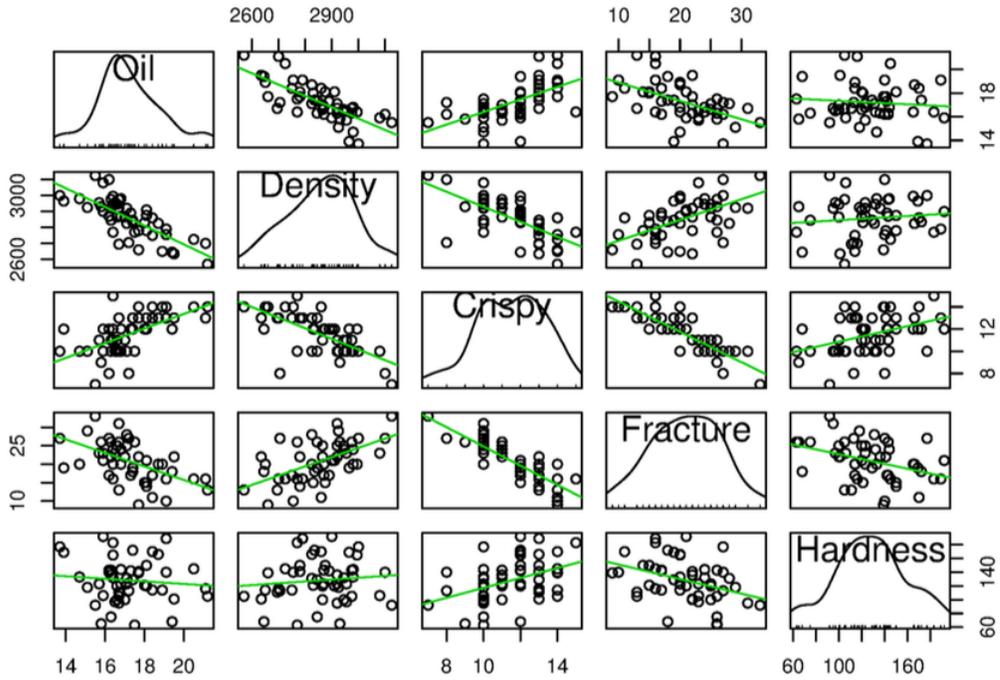
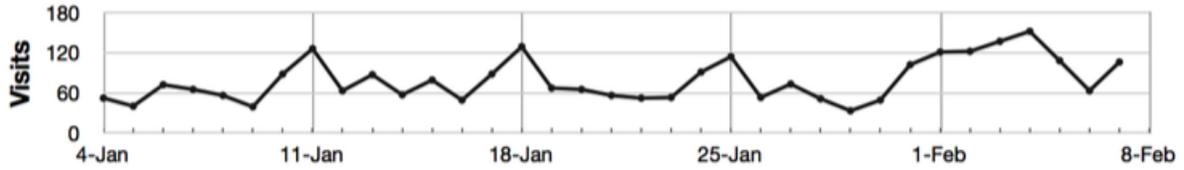
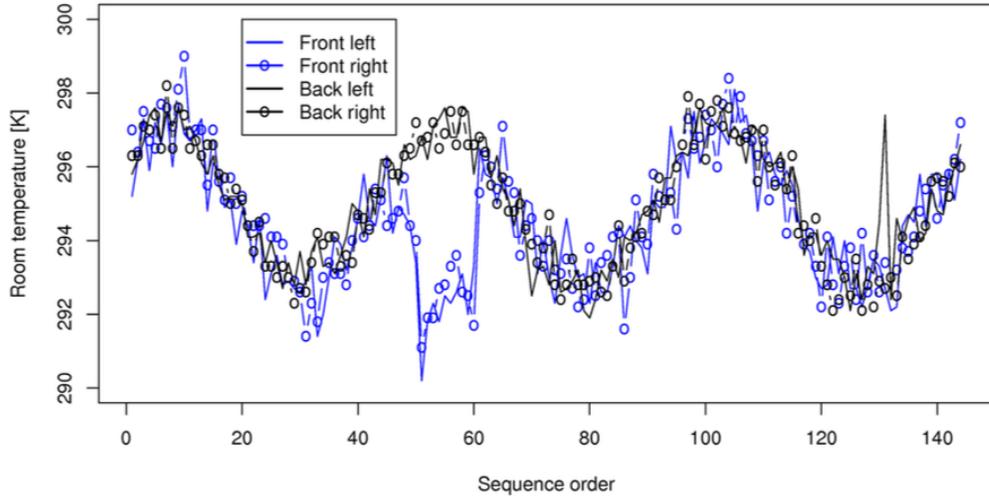
- Yes
- No

### Question 2

Which of the following are sparklines?

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Check all that correctly apply.



### Question 3

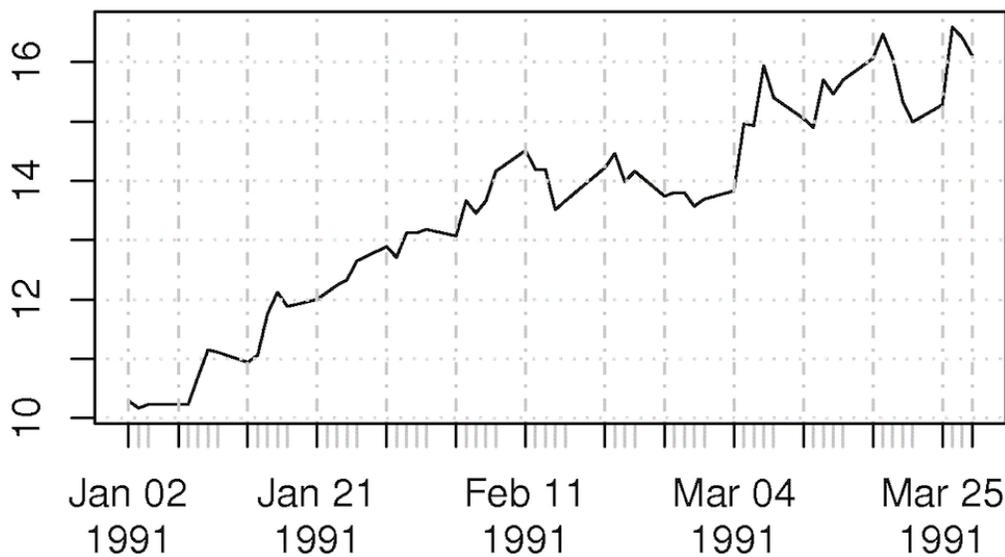
Why are good, clear plots so important?

*Check all that correctly apply.*

- Someone doesn't have to take a lot of time to figure out what is going on in the plot.
- People that must make decisions from the plot must be certain they have made the right decision (i.e. interpreted the plot correctly).
- So that printing ink costs can be reduced, thereby saving money for the company.

### Question 4

What name(s) is(are) used for the horizontal axis of a regular time-series plot?



*Check all that correctly apply.*

- Category axis
- Time
- Sequence order
- Value axis
- Distribution axis

## Question 5

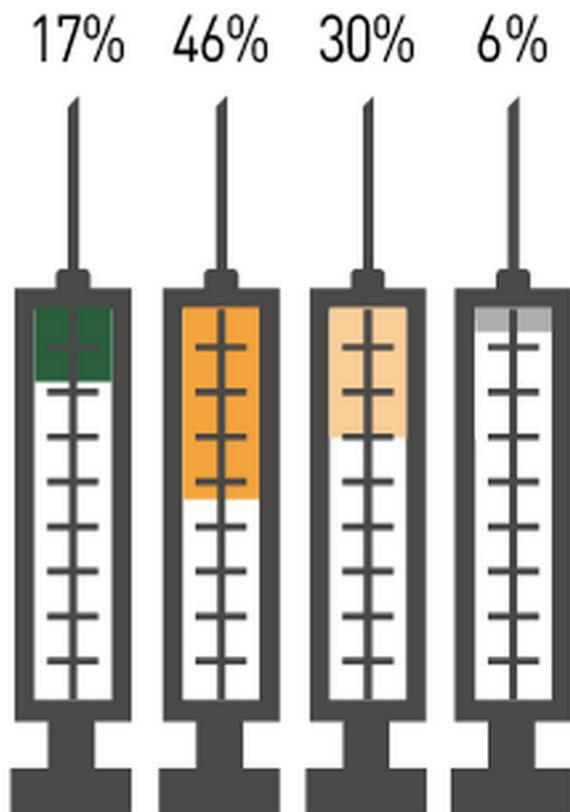
When plotting bar plots, why is it recommended to reorder the bars?

*Check all that correctly apply.*

- Bars should be colour-coded with individual colours to help the reader.
- To make your intended message clear to the reader of the plot.
- To make a declining or increasing pattern in the bars.
- So that the category labels can be written inside the bars.

## Question 6

Consider the following illustration then *check all options that correctly apply*, based on what we learned in the videos.



**HOW HIGH IS THE DEMAND FOR INTEGRATING  
RNA-SEQ TECHNOLOGY INTO THE CLINICAL SETTING?**

- Very high demand
- High demand
- Low demand
- No demand

Image credit: <http://viz.wtf/>

- If this were printed on a greyscale printer, the plot will lose all meaning.
- A table would be a more efficient way to report the results.
- Unnecessary use of data ink
- A bar plot would certainly be the best way to display these data.

## Question 7

Regarding box plots ... *(check all that options correctly apply)*

- To calculate it, it assumes the data are normally distributed
- The average can be used instead of the median on the box plot
- has a standard deviation of a normal distribution
- The first and third quartiles are shown on a box plot

- In accordance with the Coursera Honor Code, I (Kevin Dunn) certify that the answers here are my own work.**

Submit Answers

Save Answers

You cannot submit your work until you agree to the Honor Code. Thanks!