

Lecture 02A: data visualization and introduction to univariate data analysis

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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 2 video new video lectures:

- Visualization (4): scatter plots
- Univariate data analysis (1): Introduction

Prior video content can be tested too.

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

Solutions will be released when the quiz closes, at 09:25am, Tuesday, 13 January 2015.

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

Question 1

Have you installed the R software and RStudio on your laptop?

If not, please follow the [9 step tutorial](#) (link will open in a new tab) from this website. We will use the software in Tuesday's class. You must click "Yes" to get full grade for this question.

- Yes
- No

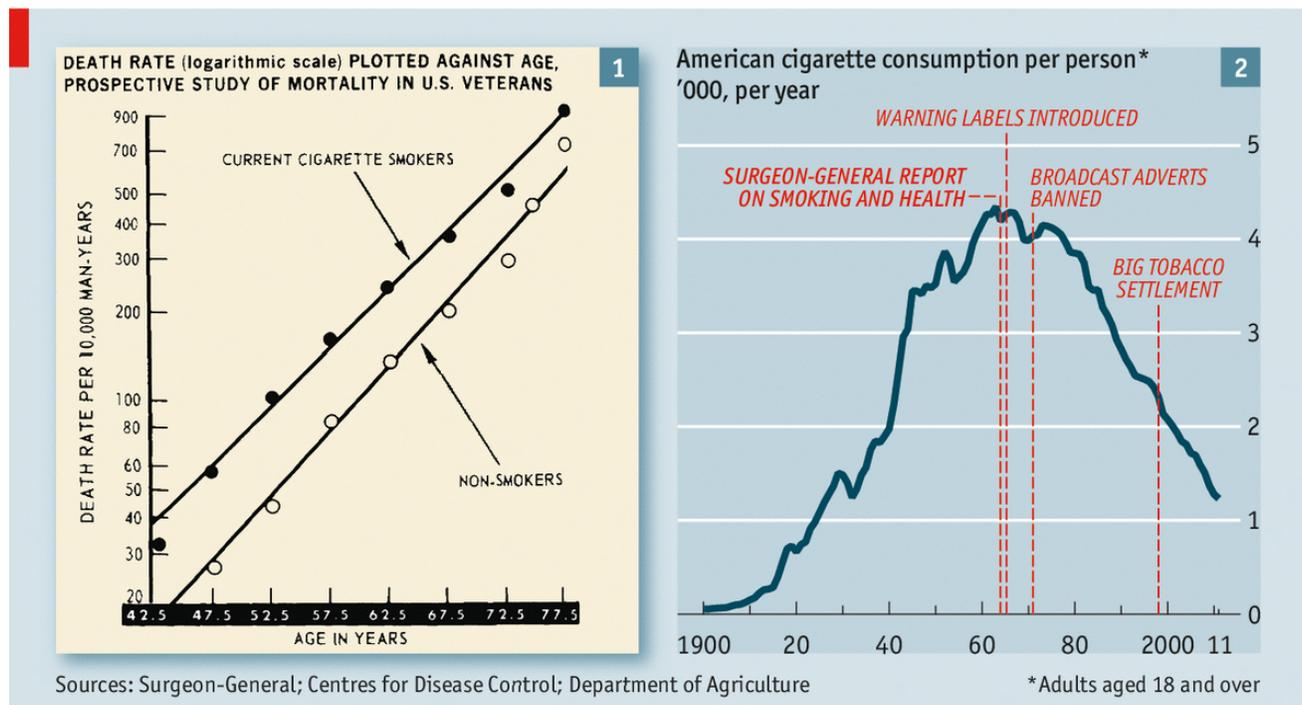
Question 2

A scatter plot (check all that correctly apply):

- can have box plots added to the axes to help the user understand the spread of the data; box plots should therefore be shown.
- requires cause-and-effect between variables being plotted.
- can, with good use of marker size, colour, and animation, show up to 5 variables in a data set.
- wastes data ink if a histogram is added, because it shows redundant information; histograms should therefore not be shown.
- should not** be used in an environment where people must make decisions from the data since they could be misread.

Question 3

Study this plot, then *check all options that correctly apply*.



Source: [The Economist](#).

- The plot on the right is a histogram.
- The plot on the left is a scatter plot.
- The plot on the left conveys a cause-and-effect message.

- The use of log-axes distorts the message of the plot.

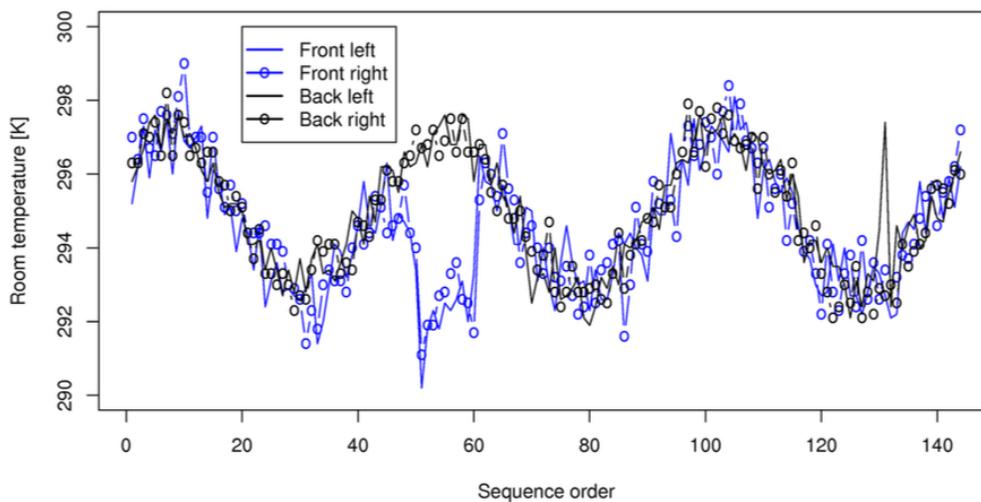
Question 4

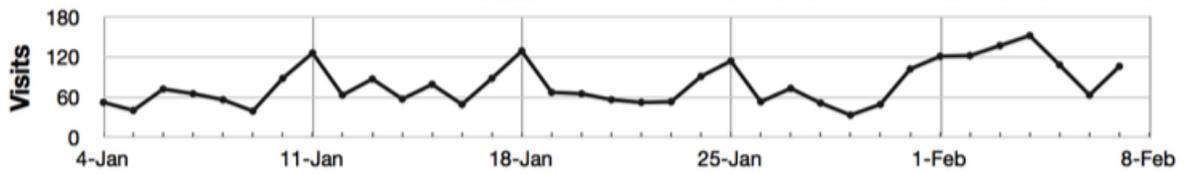
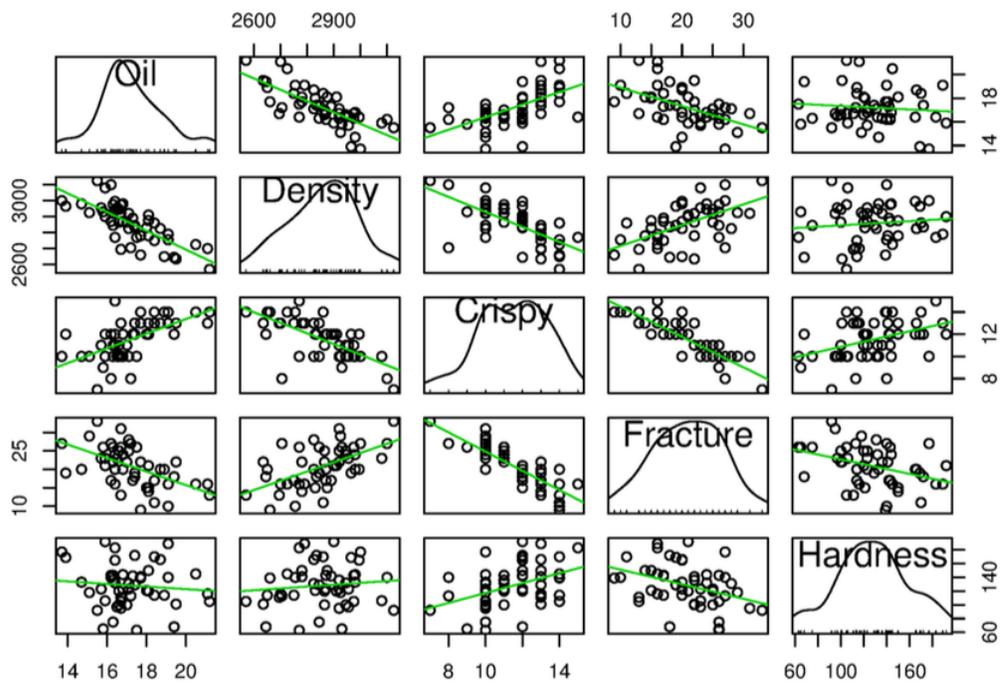
Having high variability in the product produced from your process ... *(check all that correctly apply)*

- is only acceptable when that product is going into the next step on your flowsheet, and not to the customer.
- can lead to a situation where your product is totally unusable for the customer; so this is not a desirable condition.
- is manageable, since a generally acceptable quality control strategy is to throw out badly produced product before shipping it to the customer.
- might cost your customer money, because they will have to rework your product to make it suitable for their process.
- will get you a bad reputation among your customers.

Question 5

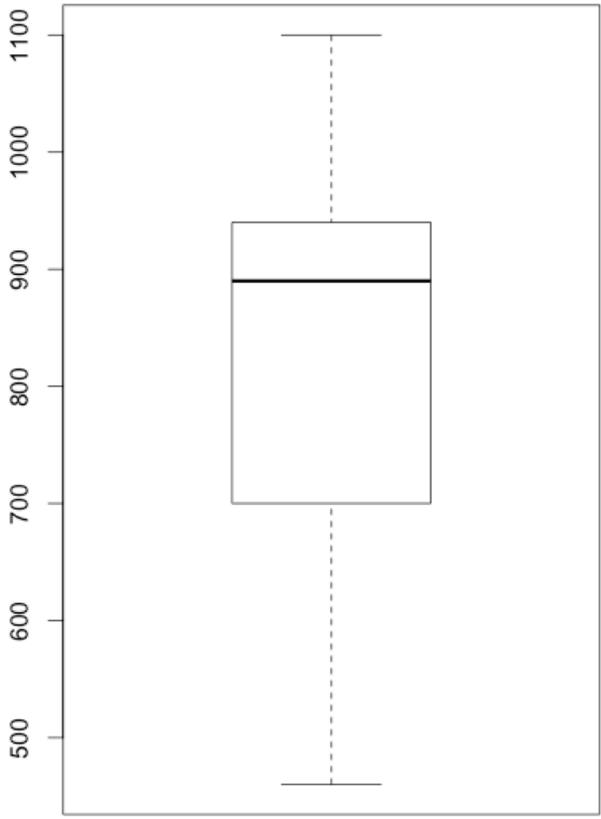
Which one of the following shows scatter plots?



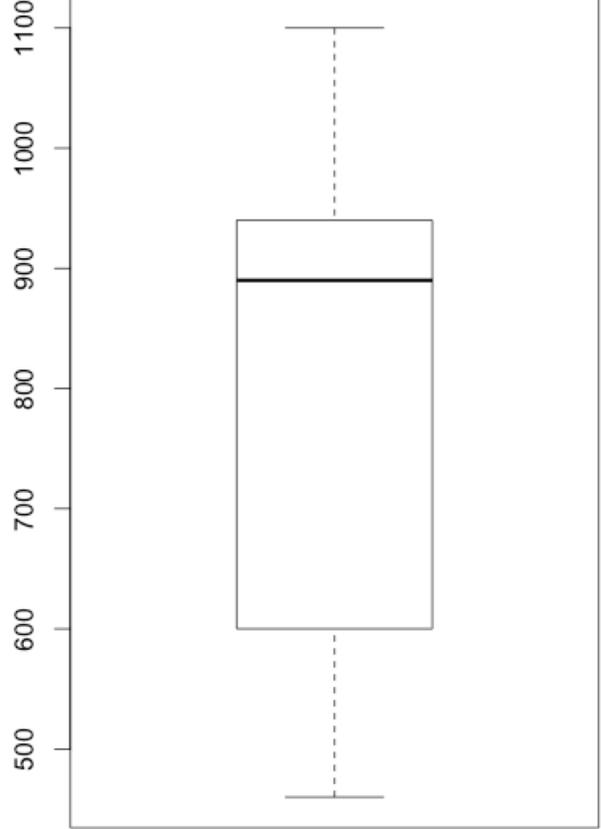


Question 6

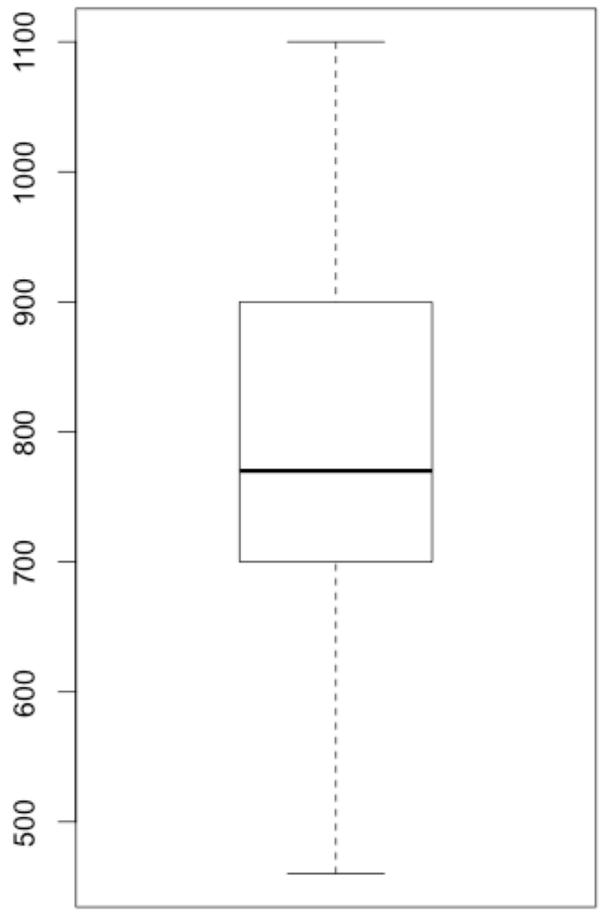
Use the "Salt" data from the prior class (01B) and draw a box plot from those data. Which of the following is a closest match to the true box plot?



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Save Answers

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