Peer-graded Assignment: Building a Custom Visualization

(Admin-Only Link) Preview Rubric

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Rubric Preview

Identify the challenge level that you chose for the assignment:

- Easiest
- Harder
- Even harder
- Hardest

The submitter's response goes here.

Did the learner identify the challenge level that they chose for the assignment (e.g., easiest, harder, even harder, or hardest)?

Help Center

○ **0 pts**
No, the learner did not identify the challenge level that they chose for the assignment.

○ **1 pt**
Yes, the learner did identify the challenge level that they chose for the assignment.

Upload an image of your visual.

🔗 The submitter's response goes here.

Did the learner upload their visual?

○ **0 pts**
No, the learner did not upload their visual.

○ **1 pt**
Yes, the learner did upload their visual.

Did the learner implement the bar coloring using a color scale with at least three colors?

○ **0 pts**
No, the learner did not implement the bar coloring using a scale with at least three colors.

○ **3 pts**
Yes, the learner did implement the bar coloring using a scale with at least three colors.

Did the learner provide a y-axis value of interest in the visual? Note: The hardest option will have a range of y values.

○ **0 pts**
No, the learner did not provide a y-axis value of interest in the visual.

○ **3 pts**
Yes, the learner did provide a y-axis value of interest in the visual.

Did the bar colors reflect the bar's position with respect to the y value?
Note: The hardest option will have a range of y values.

○ **0 pts**
No, the bar colors do not reflect the bar's position with respect to they y value.
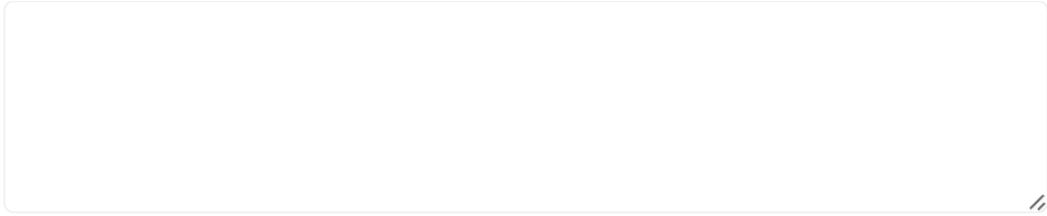
○ **3 pts**
Yes, the bar colors do reflect the bar's position with respect to they y value.

Based on the challenge level that the learner chose for this assignment, comment on the quality of the elements that are specific to each option:

- **Easier option:** The bar colors reflect the bar's position with respect to the y-axis value (e.g. blue if the bar is below the y value, white if the bar is the same as the y value, and red if the bar value is above the y value).

- **Harder option:** The bar colors reflect the bar's position with respect to the y-axis value (e.g. a gradient ranging from dark blue for the distribution being certainly below this y-axis, to white if the value is certainly contained, to dark red if the value is certainly not contained as the distribution is above the axis).

Note: for the remaining two options, you will need to run the code that the learner has uploaded in order to test the interactivity. We recommend that you run the code on the Jupyter notebook system on the Coursera platform.

- **Even harder:** Added interactivity that allows the user to click on the y axis to set the value of interestThe bar colors change appropriately with respect to what value the user has selected.

- **Hardest:** Added interactivity that allows the user to interactively set a range of y values they are interested in, and recolor based on this (e.g. a y-axis band, see the paper for more details).

Please upload your source code.

⬈ The submitter's response goes here.

If you want to look at the learner's code, we recommend that you open it through the Jupyter notebook system on the Coursera platform.