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# Peer-graded Assignment: Becoming an Independent Data Scientist

(Admin-Only Link) Preview Rubric

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## Rubric Preview

From time to time, Dr. Chris Brooks may want to share your work anonymously (via social media channels such as Twitter), to highlight some of the accomplishments of learners in this course.

If you agree that you are comfortable with instructor sharing your Assignment #4 as an example of great work, please type YES in the text box.

The submitter's response goes here.

State the region and the domain category that your data sets are about (e.g., Chaohu, China and sports or athletics).

The submitter's response goes here.

[Help Center](#)

Has the learner identified the region and the domain category that their data sets are about (e.g., Chaohu, China and sports or athletics)?

☐ 0 pts

The learner did not identify the region and domain category that their data sets are about.

☐ 2 pts

The learner identified the region and domain category that their data sets are about.

Create a research question about the domain category and region that you identified.

The submitter's response goes here.

Has the learner stated a research question about the domain category and region that they identified?

☐ 0 pts

The learner did not state a research question that related to the domain category and region they identified.

☐ 2 pts

The learner did state a research question that related to the domain category and region they identified.

Provide at least two links to publicly accessible datasets. These could be links to files such as CSV or Excel files, or links to websites which might have data in tabular form, such as Wikipedia pages.

The submitter's response goes here.

Has the learner provided at least two links to available datasets? These could be links to files such as CSV or Excel files, or links to websites which might have data in tabular form, such as Wikipedia pages.

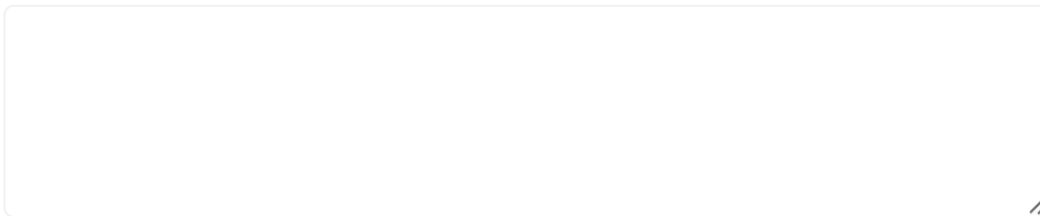
☐ 0 pts

The learner did not provide at least two working links to publicly available data sets (including links to CSV or Excel files).

☐ 2 pts

The learner did provide links to at least two working links to publicly available data sets (including links to CSV or Excel files).

If you would like to provide feedback on the links, please do so here.



Upload an image which addresses your research question.

In addition to addressing your research question, this visual should address Cairo's principles of truthfulness, functionality, beauty, and insightfulness.

 The submitter's response goes here.

Has the learner uploaded an image that addresses their stated question?

☐ 0 pts

The learner did not upload an image that addresses their stated question.

☐ 2 pts

The learner uploaded an image that addresses their stated question.

Provide a short (1-2 paragraphs) justification of how your visual addresses your research question.

The submitter's response goes here.

Has the learner written a short (1-2 paragraph) justification of how their visualization addresses their question?

☐ 0 pts

The learner has not written a short (1-2 paragraph) justification of how their visualization addresses their question.

☐ 3 pts

The learner has written a short (1-2 paragraph) justification of how their visualization addresses their question.

As this assignment is for the whole course, you must incorporate and defend the principles discussed in the first week, specifically, Cairo's principles of truth, beauty, function, and insight.

For each of the following prompts, please provide a response that links each principle to one or more elements of your visual.

- Describe your design choices for your visual in regards to Cairo's principle of **truthfulness**.
- Describe your design choices for your visual in regards to Cairo's principle of **beauty**.
- Describe your design choices for your visual in regards to Cairo's principle of **functionality**.
- Describe your design choices for your visual in regards to Cairo's principle of **insightfulness**.

The submitter's response goes here.

Did the learner describe their design choices in regards to Cairo's principle of **truthfulness** (e.g., avoiding misleading representations) and relate them to one or more elements of their visual?

☐ 0 pts

No, the learner did not describe their design choices in regards to Cairo's principle of truthfulness (e.g., avoiding misleading representations) and did not relate them to one or more elements of their visual?

☐ 1 pt

Yes, the learner did describe their design choices in regards to Cairo's principle of truthfulness (e.g., avoiding misleading representations) and relate them to one or more elements of their visual?

Did the learner describe their design choices in regards to Cairo's principle of **beauty** (e.g., using fonts, colors, and layout that are appropriate and aesthetically pleasing) and relate them to one or more elements of their visual?

☐ 0 pts

No, the learner did not describe their design choices in regards to Cairo's principle of beauty (e.g., using fonts, colors, and layout that are appropriate and aesthetically pleasing) and did not relate them to one or more elements of their visual?

☐ 1 pt

Yes, the learner did describe their design choices in regards to Cairo's principle of beauty (e.g., using fonts, colors, and layout that are appropriate and aesthetically pleasing) and did relate them to one or more elements of their visual?

Did the learner describe their design choices in regards to Cairo's principle of **functionality** (e.g., choosing a charting type that is appropriate for the stated research question) and relate them to one or more elements of their visual?

☐ 0 pts

No, the learner did not describe their design choices in regards to Cairo's principle of functionality (e.g., choosing a charting type that is appropriate for the stated research question) and did not relate them to one or more elements of their visual?

☐ 1 pt

Yes, the learner did describe their design choices in regards to Cairo's principle of functionality (e.g., choosing a charting type that is appropriate for the stated research question) and did relate them to one or more elements of their visual

Did the learner link Cairo's principle of **insightfulness** (i.e., producing a "eureka" or "aha" response in the viewer) with one or more elements of their visual?

☐ 0 pts

No, the learner did not make any connections between Cairo's principle of insightfulness with one or more elements of their visual.

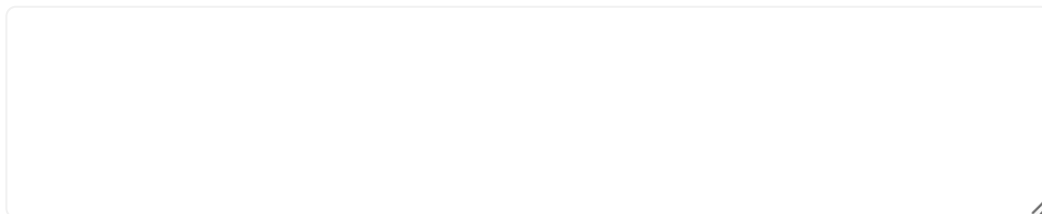
☐ 1 pt

Yes, the learner did make a connection between Cairo's principle of insightfulness with one or more elements of their visual.

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.



In this assignment the focus is more on the mechanics of creating charts, so there is no requirement to create an enlightening chart as described by Cairo. But to explore the issue, please provide comments to the learner on the following:

1. Did the chart created teach you something new about the city/region/country? What did you learn?
2. Do you think this chart answers an interesting question? Why?
3. Name one thing which works and one which could be improved, and how would you improve it.

