Toggle navigationNavigation openNavigation closed

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- Browse
- Search
- Profile
- My Purchases
- Settings
- Help Center
- Log Out

- userHIN-WENG

List

- userWelcome Back, HIN-WENG!
- Explore
- My Coursera
- AccountChevronRight
- Help Center
- For Enterprise
-

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Back to Week 4Lessons

This Course: Applied Plotting, Charting & Data Representation in Python

Prev

Next

- **Module 4: Applied Visualizations**

- **Project**
  - LectureBecoming an Independent Data Scientist
    1 min
  - Project Description
    1h
  - **Peer-graded Assignment:** Becoming an Independent Data Scientist
    2h

    Review Your Peers: Becoming an Independent Data Scientist
  - ReadingPost-course Survey
    10 min
-

Peer-graded Assignment: Becoming an Independent Data Scientist

You passed!
Congratulations. You earned 15 / 15 points. Review the feedback below and continue the course when you are ready. You can also help more classmates by reviewing their submissions.
Review Classmates' Work

1. Instructions
2. My submission
3. Discussions

Sitka Alaska Weather
Submitted on September 16, 2018
Shareable Link
Prompt
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.

YES

Prompt

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

Alaska USA Weather

Rubric

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

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

Prompt

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

Identify actual weather temperatures of the largest US city by land area of a country. From there, obtain weather records from a reliable source.

Provide a snapshot/visual to a potential visitor on what to expect and therefore what gears to bring.

The visual should be from a recent past month/year where you expect it to be typical for the coming month/year.

Rubric

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

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

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

Prompt

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.

https://www.meteoblue.com/en/weather/archive/export/sitka_united-states-of-america_5557293

https://github.com/buttermilkcake/Data_Visualization
(Goto sitka-weather-07-2014.csv)

1.

Rubric

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

2 points
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.

Thanigachalam Tamizh Selvam

link works fine

AMIT KUMAR PATEL

None

Bart T Cubrich

The one link is to a python course assignment. That makes it hard to check the veracity or reliability of that data.

Prompt

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.

Sitka Alaska Weather July 2014
Sitka Alaska Weather July 2014

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

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

2 points
The learner uploaded an image that addresses their stated question.

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

The largest city by land area in USA is Sitka, USA. The visual provides key temperature range of a typical month/year for visitors, so that they can be prepared. A month of data provides an adequate gauge of what weather extremities that my be encountered. The month/year chosen should be from the recent past.

Weather forecast is good but it can be supplemented with your best judgement as an inhabitant of the city to prepare your cherished visitors. It is also a nice gesture.

The visual is easy to construct and the codes can be replicated for any other major city with reliable weather records. Quickly and without being wordy, you extend you courtesies to the visitors of your cities.

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

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

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

Prompt

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**.

Truthfulness - The visual is based on historical records (facts0 compiled by reputable weather agencies. Max, Min and Mean temperatures, which are easy to understand are shown.

Beauty: Only 3 colors contrasting colors are used for 3 elements. Simple and meant to catch attention

Functionality: For a visitor, who is not expected to stay long, a month of data should be sufficient to provide a snapshot. Also, the Y-axis provides the frequency of the max/min temperatures for visitors to have more informations but not to overload them with data.

Insightfulness: Conveying your insights as an inhabitant of the City and to provide an overlay to the typical weather forecast. Visitors should appreciate your thoughtfulness. Typically, visitors would trust your judgement and in this case on the month/year you have chosen as the likely experience.

Rubric

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

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

Prompt
Please upload your source code.

Sitka_Alaska.ipynb

Rubric
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.

Thanigachalam Tamizh Selvam

looks good

AMIT KUMAR PATEL

Done.

Bart T Cubrich

good
Overall Assignment Rubric
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.

Thanigachalam Tamizh Selvam

gives more information on the temperature for the Alaska, yes, we can give alpha option to chart so that we can see the graph more clearly.

AMIT KUMAR PATEL

Yes! the chart presents the weather condition of the Alaska region. The chart miss the x-axis label and this make it difficult for the observer to understand and make sense of it.

Bart T Cubrich

1. This chart did convey information about the temperature in Sitka Alaska. 2. No. The visual is basically the easiest possible solution to the homework, and the question could have been answered in two seconds with a google search. A bunch of temperature data were not needed to get the important information the learner provided, and the data wasn't even presented seasonally. Not to mention the learned never stated what their research question was. 3. The plot is nice and simple, but the lack of transparent bars made it hard to see the actual shape of the distributions, as they hide behind each other.

Edit submission

Comments

Comments left for the learner are visible only to that learner and the person who left the comment.

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