UDACITY

PROJECT

Make Effective Data Visualization

A part of the Data Analyst Nanodegree Program

PROJECT REVIEW

CODE REVIEW 2

NOTES

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Meets Specifications

Congratulations you've passed - and first time around!

Please read my comments as I've made some additional suggestions that I think would make your graphic even better.

I'm going to nominate this for excellence. Why? You've found a different dataset that interests you, highlighted a clear and interesting story and thanks to well thought out design choices translated that into a really appealing and insightful explanatory graphic.

Best of luck with the rest of the course.

Code Structure and Functionality

The visualization renders and any interactions or animations work as the reader interacts with the visualization.

Yes, your visualisation renders perfectly.

Large code chunks are commented and all complex code is adequately explained with comments. Comments are not overused to explain obvious code.

Commenting is well placed and informative - fantastic.

The code uses formatting techniques in a consistent and effective manner to improve code readability.

Formatting is both clear and consistent. Fantastic.

Did you know you can put your Javascript and CSS into different files? You reference them in index.html as follows:

<link rel="stylesheet" href="my_css.css">

<script src="my_js.js"></script>

Visualization is Explanatory

The visualization centers on a specific, clear finding in the data.

Yes, well done. You've really excelled here. You've gone out and found a dataset that interests you. Analysed and cleaned it and focussed on a specific, clear finding:

> China suffers from bad air quality during recent years, especially for cities along eastern coast in winter season. The air quality has been improved slowly since 2013. We present the air quality changes in two major cities, Beijing and Shanghai. Hover on lines to show monthly air quality levels percentage in the side chard.

There is a typo on the last word but otherwise, perfect.

The selected finding is clearly communicated. Design choices foster communication between the reader and the visualization.

You've done really well here. I particularly like:

- chart choices
- clear, accessible labels
- horizontal bar colour codes
- additional annual standard bars
- ability to select a line

Fantastic. You definitely meet specifications here. However, I do have some further ideas for you to think about:

- How about only showing the line chart initially and prompting the reader to select a city - that way it will make it clearer that the bars only refer to the selected city?
- how about changing the horizontal bar label as the city changes? Perhaps having the text a bit bigger or writing the city name in capitals - i.e. *"BEIJING: more text here"* might help point this out.
- have you tried putting the city lines in greyscale thus simplifying the palette even further? It might give it more visual impact?
- and finally all the text is pretty small. A few pixels bigger might be more accessible?

These are all extra polishes. It is always useful to put yourself in the mindset of a reader seeing your graphic for the first time. What will they understand in that crucial first 10/15 seconds? Is there anything I can do to make it even clearer?

Design

A reader's summary of the graphic would closely match the written summary in the README.md file, or a reader would identify at least 1 main point or relationship that the graphic attempts to convey.

Brilliant - the message in both is consistent.

The visualization includes interaction or animation. The interaction or animation may be simple, such as a hover, tooltip, or transition. Interaction or animation enhances understanding of the data.

Great interaction - tooltips and animation. An additional challenge for the future might be to add buttons for the years so the reader can select themselves?

Initial design decisions such as chart type, visual encodings, layout, legends, or hierarchy are included at the beginning of the Design section in the README.md file.

Design choices are well documented.

Feedback and Iteration

Feedback has been collected from at least three people throughout the process of creating the data visualization. The feedback is documented in the Feedback section of the README.md file.

Great job collecting, documenting and responding to feedback from three people.

The project includes evidence that the visualization has been improved since the first sketch or the first coded version of the visualization. All of the feedback is listed in the Feedback section of the README.md file. Most design choices and changes are accounted for in the Design section of the README.md file. If no changes were made to the visualization after gathering feedback, this decision is explained.

Yes, nice to see two files and how the project evolved.

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2 CODE REVIEW COMMENTS ›

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