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PROJECT

Make Effective Data Visualization

A part of the Data Analyst Nanodegree Program

PROJECT REVIEW | CODE REVIEW 2 | NOTES

Requires Changes

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3 SPECIFICATIONS REQUIRE CHANGES

What a fabulous visualisation - a real pleasure to mark!

You were very close to meeting specifications first time and once complete I would definitely nominate your submission for excellence. There are a couple of things to consider:

- make sure your visualisation is **exploratory**
- look at the design choice suggestions and consider making some changes
- read the other sections as there is always room for improvement even if you meet specifications

Code Structure and Functionality

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

Your visualisation renders perfectly - well done.

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

Commenting is both informative and well placed - really helpful for the reader. Awesome!

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

Code formatting is both consistent and effective - although I did spot one console.log which could do with being removed.

One thing which is not required but considered best practice is putting your Javascript and CSS into separate files. You can reference them in your index.html file 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.

You're well on your way here. You've analysed the data to come up with a specific, clear finding in the data:

> This analysis will show that US National Airspace System related delays tends to decrease other the time. Nevertheless, the impact of the National Airspace System delay for the passenger remains the same over the years.

You show this clearly on your FANTASTIC story format. However, please bear in mind that the rubric asks for an **explanatory** visualisation. At the moment, yours is an excellent example of an **exploratory** visualisation. See link here for a recap on the difference.

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This is easily solved!

All you need to do is answer the question - Why? Why are the two results so difference? What is your interpretation of the data.

Once you've done this you need to add these findings to your visualisation - remember it is meant to standalone without reference to the README file. You already have a title and intro sentences so rewording these on your FINAL page would do the trick.

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

You are doing so well here - great reader/graphic communication. There are many things that I love:

- story format
- chart choice
- colour coding
- well worded labels and buttons
- interactive Y-axis - fantastic

There are two things which I would like you to consider which I think would really help optimise reader/graphic communication further. It is often helpful to put yourself in the mindset of a reader coming to the graphic for the first time. Will they understand your message in that crucial first 10/15 seconds? Is there anything you can do to make it clearer?

- Tooltips - it would be much more accessible if they showed the airport name or city instead of the code. As a non US citizen they mean very little to me and I would struggle with some airport codes in the UK/Europe.
- Evolution v Average delays - I'm wondering whether rewording this might help with your message. From what I understand you are talking about Minutes v Percentage? Whether or not to alter this will become clearer once you've fixed on your key findings (see above).

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.

Yes, the message in both is consistent but I've checked Requires Changes as a reminder that you need to put your key findings in both the README file and on the graphic.

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 tooltip, story and button interaction.

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.

Great job documenting your design decisions.

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.

Feedback has been collected, responded to and documented from at least three people. Well done.

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.

It's really helpful that you've included three versions of the file but none of the older ones are rendering! You've done a great job documenting the evolution of the project in your README file so you still meet specifications.

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2 CODE REVIEW COMMENTS ›

Best practices for your project resubmission

Ben shares 5 helpful tips to get you through revising and resubmitting your project.

Watch Video (3:01)

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