



PROJECT

Make Effective Data Visualization

A part of the Data Analyst Nanodegree Program

PROJECT REVIEW

CODE REVIEW 4

NOTES

SHARE YOUR ACCOMPLISHMENT!  

Requires Changes

5 SPECIFICATIONS REQUIRE CHANGES

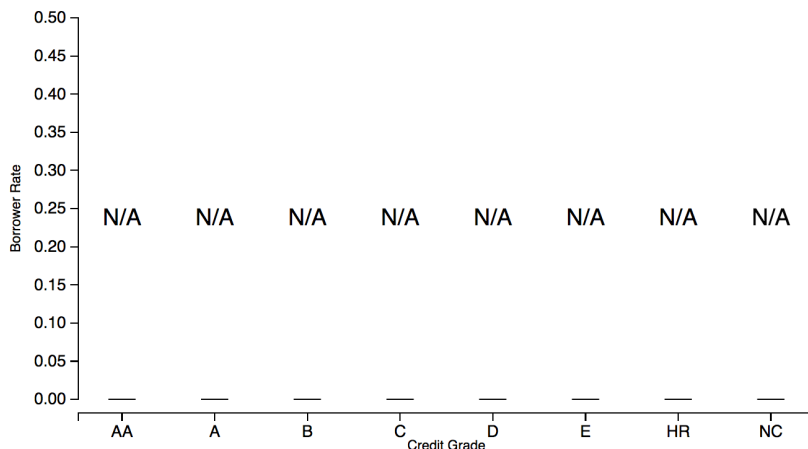
You did a good job here! A little bit more effort, craft a good story and you are done! Good luck with next submission!

Code Structure and Functionality

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

The project is great as a technical thing, however, I see some issues with rendering: most of the quarters "Borrower Rate V Credit Grade in quarter :2011-Q2" are undefined:

## Borrower Rate V Credit Grade in quarter :2011-Q2



If this is an issue with the code, it needs to fix this. If there is just no data for these periods, you can simply delete this chart it shows N/A most of the dates.

Another issue with rendering are errors in browser console:

```
d3.v3.min.js:1 Error: <circle> attribute cx: Expected length, "NaN".
d3.v3.min.js:1 Error: <circle> attribute cx: Expected length, "NaN".
d3.v3.min.js:1 Error: <rect> attribute x: Expected length, "NaN".
d3.v3.min.js:1 Error: <circle> attribute cx: Expected length, "NaN".
d3.v3.min.js:1 Error: <circle> attribute cx: Expected length, "NaN".
d3.v3.min.js:1 Error: <rect> attribute x: Expected length, "NaN".
d3.v3.min.js:1 Error: <circle> attribute cx: Expected length, "NaN".
d3.v3.min.js:1 Error: <circle> attribute cx: Expected length, "NaN".
```

Be aware the final project does not show any errors.

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

There is a minimal set of comments, however, it is enough for code understanding.

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

The code formatting is almost great. There are couple of small issues (please refer "code review" section)

Visualization is Explanatory

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

On the one hand, the project is great as a technical thing. On the other hand, I cannot say the current project version is explanatory. You have created a very interesting set of charts and it should engage the viewer to explore it in details, but the main aim of the project is to present explanatory visualization (remember martini glass principles)?

What I want from you in particular:

1. Explore the chart by yourself and find interesting outcomes
2. highlight these outcomes on the project page
3. include your findings in README file

The example of outcomes can be something like:

- There is a huge loan amount decrease which starts at 2008-Q3
- Texas and California states show big loan amount through all period.

You are definitely welcome to find your own outcomes. To learn more about explanatory vs explanatory principles you can follow <http://www.storytellingwithdata.com/blog/2014/04/exploratory-vs-explanatory-analysis>

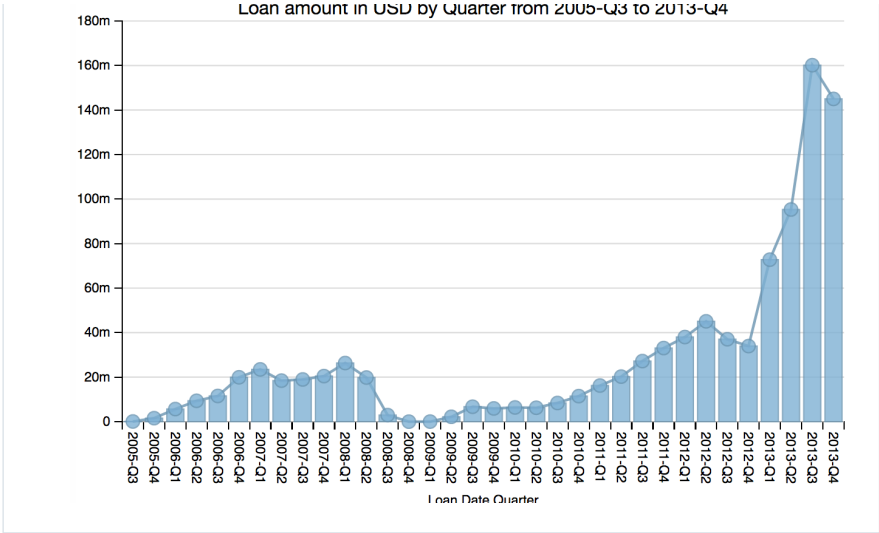
**The selected finding is clearly communicated. Design choices foster communication between the reader and the visualization.**

Design choices are great. I am glad to see that you have created such complex technical project. I like in particular:

- Bars with the map chart is a great choice! It allows the readers to see particular trends and explore them in details
- The project layout is awesome! you specified 4 charts at the project page, however, it does not look overwhelmed.

Anyway, there is a place that should be improved still:

- "Loan amount in USD by Quarter" chart going to show trend how the amount was changed through periods. In this case, there is no need to change it due to period switching. Keep all values permanently:



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.

As there are no specific outcomes, currently it "requires changes"

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.

Animation is implemented

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.

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.

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.

 RESUBMIT

 DOWNLOAD PROJECT

4 CODE REVIEW COMMENTS



Learn the [best practices for revising and resubmitting your project](#).

Have a question about your review? Email us at [review-support@udacity.com](mailto:review-support@udacity.com) and include the link to this review.

RETURN TO PATH

[Student FAQ](#)