



PROJECT

Make Effective Data Visualization

A part of the Data Analyst Nanodegree Program

PROJECT REVIEW

CODE REVIEW 8

NOTES

SHARE YOUR ACCOMPLISHMENT!  

Requires Changes

3 SPECIFICATIONS REQUIRE CHANGES

Code Structure and Functionality

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

Well done! Everything renders and works fine but the visualization takes a while to load even on a pretty powerful machine.

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

Well done commenting code!

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

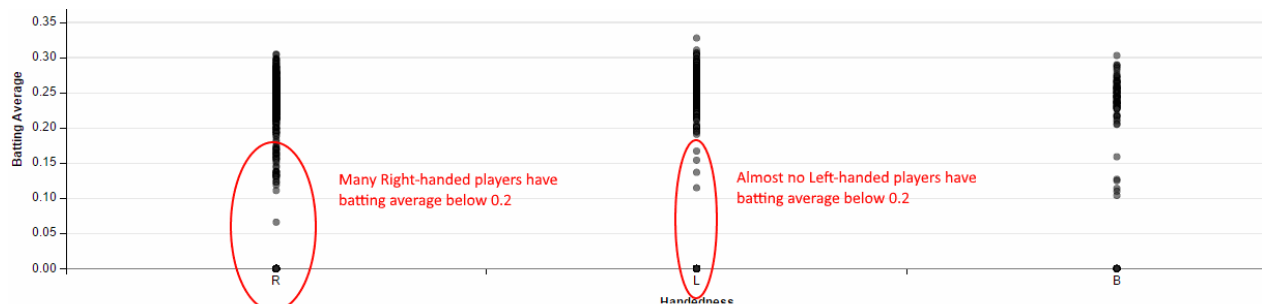
The code formatting is generally great, but it could be improved. I marked several places where improvement needed in code review. Consider reformatting according to code styling recommendations. For example, one from Google [here](#) or consult [this](#) list of 10 different styles (I prefer Node.js explanations for clarity). Pay attention to consistent using of spaces and tabs (there shouldn't be a mix of them).

You can use a specialized editor or IDE to help you autoformat code and follow consistent indentation.

Visualization is Explanatory

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

The visualization centers on a specific, clear finding in the data. It's true. However, I can't say that the visualization as it is and the findings at the end show the same message. I can even say that the findings sounded completely unexpected to me and I had to return back and check again but still didn't feel convinced. To me, it looks like very tough task to estimate correlation between weight/height and batting averages from present charts and also, it looks like Left-handed players have some advantage, at least for batting average -- look at points below about 0.18-0.2 -- there are much more low-performing Right-handed players



Also, there are many players with 0 batting averages or home-runs. It may mean that they weren't playing and could skew the data for some height/weight group if there were many such players for some reason or just pure chance. Try removing those values and try again.

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

I should say that the visualization is a very good product from a technical point of view. It has a nice flow of user interaction and great charts and a large amount of cool little details like averages lines and so on. It just needs small tuning to present data more clearly and intuitively (and fixing of small bugs like cropped labels).

It starts from a good overview slide (couple remarks on image below):

Slide Navigation:

Physical Player Characteristics

Baseball Statistics

Performance vs Weight

Performance vs Height

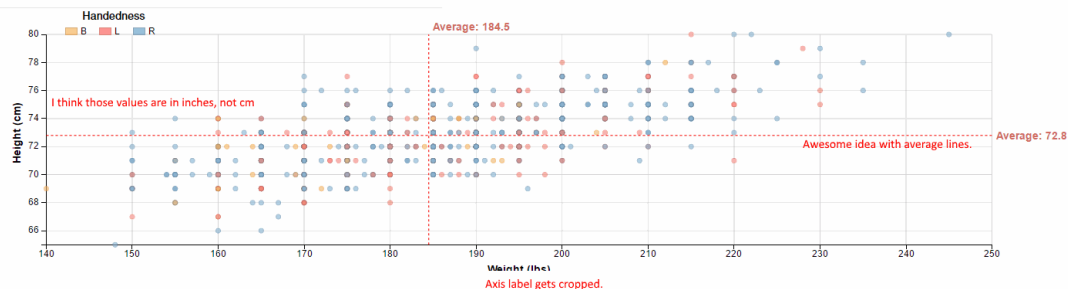
Performance vs Handedness

Findings

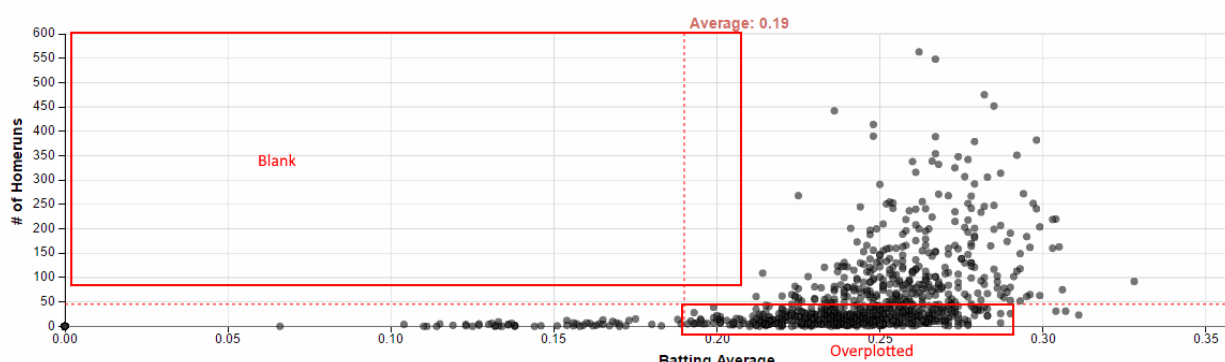
Very nice feature to dim next slides to show progress!

Question 1: What does the typical baseball player look like?

Continue



The second slide presents typical statistics but because of skewed data part of the chart is severely overplotted and most part of it completely blank. I'd suggest using log-axes here to spread-out the data more evenly and reducing opacity even lower to battle overplotting in dense areas.



Next, performance charts. They are great but also overplotted in dense areas. I suggest adding some jitter and also reducing an opacity a little bit. Also, if you feel courageous (this is optional but will very cool if implemented) try adding boxplot like [this](#) to the same chart. Especially it will be helpful for the last chart -- perf vs handedness. You should add boxplot to it or replace it with boxplot (or something similar) altogether because current version doesn't show important relationships in the data and other chart types like bar charts may not be enough to shows it either.

Another minor suggestion: change labels R|L|B to more readable and simple Right/Left/Both.

And finally, reconsider conclusion -- is it still hold after all improvements to the visualization? Is the visualization shows the same message? If so -- great, if not -- update it too.

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.

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.

Awesome interactivity, well done!

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.

Very good explanation of initial design choices in README.md. Good job!

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.

Well done collecting feedback and documenting changes according to it.

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.

Well done implementing changes.

 RESUBMIT

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