

Summary

This explanatory data visualization looks at the dataset of 1,157 baseball players that includes information regarding handedness, height, weight, batting average, and home runs. Tableau software has been used to develop a narration of key findings in the dataset. The visualization can be found in the following link:

Initial version: https://public.tableau.com/profile/yas7423#!/vizhome/BaseballData_22/Story1

Final version: https://public.tableau.com/profile/yas7423#!/vizhome/BaseballData-v2_0/Story1?publish=yes

Design

Different types of tools have been used to perform this explanatory data analysis including tables, line charts, boxplots and histograms. These plots have been gathered together to create a narrative of the key findings in the data. Filters have been designed in some of the plots to make the presentation more interactive. A new field for Body Mass Index (BMI) was introduced to capture the interaction between height and weight in a single variable.

After receiving feedback, extra notes were added to the graph, including highlighting the difference between batting average and scoring home runs skills, an explanation for high counts of 0 batting average, difference in batting average and home runs of ambidextrous players. In addition, the average weight, height, and BMI for an adult American male was added to the histograms for comparison.

Feedback

Here is the detail of feedback received:

- It's interesting in the visualizations that high batting average and ability to score home runs seem to be separate skills for baseball skills.
- I would like to see what the BMI and height distributions are for American men to compare to the baseball players.
- Switch hitters seem to be much better at getting hits, but much worse at scoring home runs.
- That there are significant difference between right handed, left handed, and ambidextrous baseball players.
- Are the 0s in the batting average, players who do not bat? Or are there players who never hit?

Resources

- https://onlinehelp.tableau.com/current/pro/desktop/en-us/help.htm#save_export_data.html
- <https://community.tableau.com/thread/195972>
- https://en.wikipedia.org/wiki/Home_run
- https://www.cdc.gov/nccdphp/dnpao/growthcharts/training/bmiage/page5_2.html
- <https://news.gallup.com/poll/102919/average-american-weighs-pounds-more-than-ideal.aspx>
- <https://www.verywellfit.com/average-height-for-a-man-statistics-2632137>
- <https://www.nbcnews.com/healthmain/real-shape-american-man-dudes-youre-porky-8C11394082>
- https://onlinehelp.tableau.com/current/pro/desktop/en-us/reference_lines.html

