

Data Story Telling – Baseball Data

Introduction

This report aims to present the explanatory data visualization steps and to communicate the findings and patterns on the performance of baseball players. The analysis is done using Tableau and a data set containing 1,157 baseball players including their handedness (right or left handed), height (in inches), weight (in pounds), batting average, and home runs.

1st Story: https://public.tableau.com/profile/irina.munteanu#!/vizhome/Story1_194/Story1

2nd Story:

https://public.tableau.com/profile/irina.munteanu#!/vizhome/Story2_22/PerformanceinBaseball

Summary

In this project I have used different visualization techniques to communicate insights on baseball data. I have analyzed the relationships between variables, such as: handedness, batting average, height, weight and home runs.

Design

Initial version

For the first analysis, *Number of Records by Handedness*, I chose a bar chart to easily see how many observations we have by the type of hand (left, right or both).

Home Runs vs Batting Average is represented by a scatter plot colored by handedness. The plot shows no clear relationship between these variables.

Batting Average vs Height is represented by an area chart. This plot is examining the maximum batting average per height. It seems that highest batting average have the players who have a height of 72 inches.

Batting Average vs Weight is represented by an area chart as well. In this plot we can see that the maximum batting average have the players who have a weight of 170 pounds.

For *Home Runs vs Height* I chose an area chart to see which height leads to the most home runs. From this visualization we can easily see that players with height of 74 inches had the most home runs.

For *Home Runs vs Weight* I chose an area chart to see which weight leads to the most home runs. It seems that players who have a weight of 190 pounds had the most home runs.

Final version

In the final version I added 2 more charts to emphasize the insights I found in the first version. The minimum batting average vs height and minimum batting average vs weight.

Feedback

1. My story is named Story 1, so no explanatory title for the audience to know what it's all about.

Action: change the title of the story into 'Performance in Baseball'

2. We are not sure if the height and weight count toward performance until we see also a min of batting average and home runs.

Action: add another chart with the minimum value of batting average vs height to emphasize and confirm the insights

Conclusion

As a conclusion, the top baseball performers are right handed and have a height between 72 and 74 inches. There is no clear relationship between performance and weight.