

# DATA STORY TELLING BASEBALL DATA

BY Harshal Kulkarni

## 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 or both), height (in inches), weight (in pounds), batting average, and home runs.

[Initial link](#)

[Final link](#)

## SUMMARY

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

## DESIGN

### INITIAL VERSION

For the first analysis I used box plot to show batting average and homerun with respect to handedness. I also used bar chart to show median average and homerun w.r.t handedness. I also used bubble chart to show distribution of homerun. My main aim was to go through all the parameters in the dataset

After the initial findings I wanted to see if height and weight affect the performance of the player thus I decided to use line chart to explore the relation between height and batting average and homerun average.

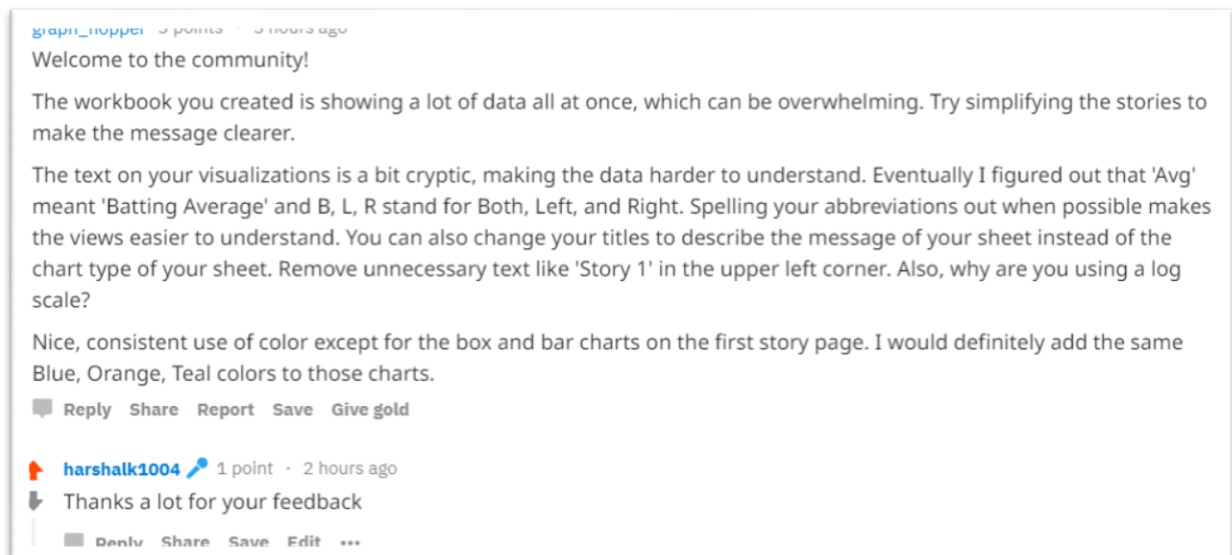
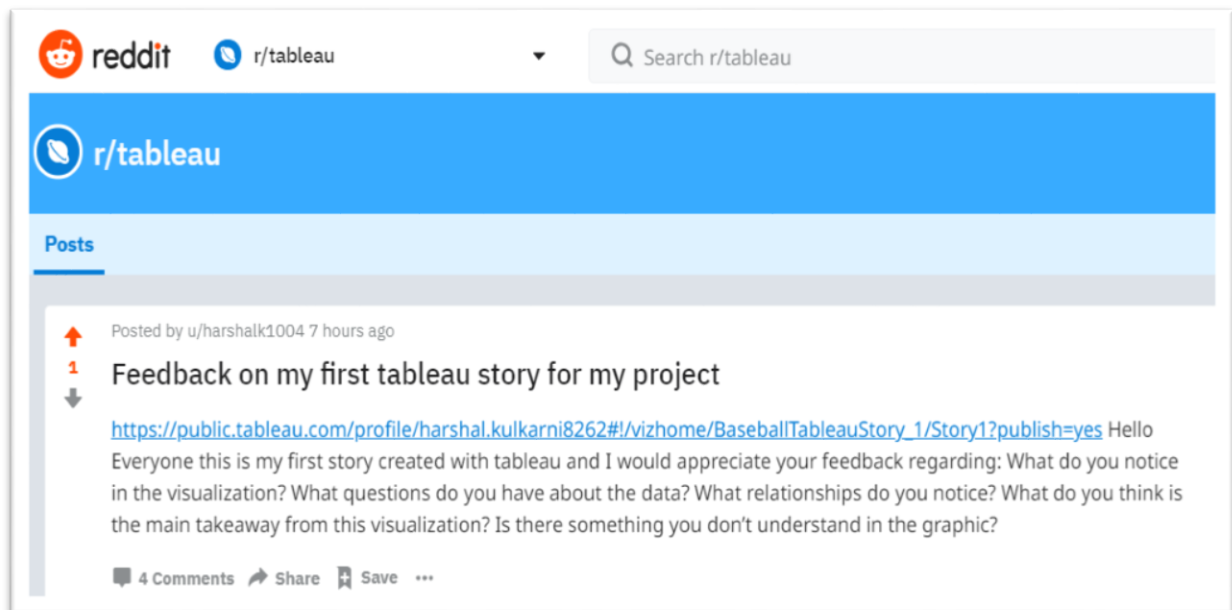
Lastly I used scatter plot and found out that there was a weak positive correlation between homerun average and batting average

### FINAL VERSION

I shared my first story on Reddit tableau community and got feedback from couple of people.

I have tried to implement all the changes suggested in the feedback, which includes creating histogram charts, renaming axis title, describing filters so the viewers can easily understand what they mean, adding some more insight with additional chart.

## FEEDBACK



↑ paddedroom 2 points · 4 hours ago

↓ Ditto; welcome to the community!

"Distribution of homerun" isn't a distribution, it's a bubblechart. When folks think about distributions, they're generally thinking of histograms. Any particular reason why a histogram wasn't used? When I saw what [/u/graph\\_hopper](#) posted about log scales, I asked the same question. Those log scales are messing with your boxplots, i'd wager. Are these lifetime values?

The second page of the story gives me a takeaway: Dont hire tall batters. I'm not sure if that was your intended takeaway, so consider what your charts are showing a broad audience. This page also has that red text that begs me to interact with the filter. Can you build a box that provides that action; "click here to filter these out" or something? When I filter for 19 HRs or greater, the stories DO change; and DRAMATICALLY... so make it easy for folks to tell this story; or start off telling that store and let them unfilter.

The correlation from the 3rd page is about .182. That's... not a correlation. THIS is where you might explore using Log scale.

## CONCLUSION

I have found out that overall left handers perform slightly better than right handers in baseball.

Also as the height increases the batting average and homerun average decreases.

Players with height in between 70 to 76 inch and weight between 170 to 330 pounds have better performance then any other players.

There is a positive correlation between batting average and homerun average but its not very strong.