

# Data Visualizations using Tableau

Workbook link from Tableau public:

[https://public.tableau.com/views/BaseballPlayers\\_Handedness\\_Analysis/HandednessImpact?:embed=y&:display\\_count=yes](https://public.tableau.com/views/BaseballPlayers_Handedness_Analysis/HandednessImpact?:embed=y&:display_count=yes)

## Summary:

This project explores the baseball player data set of all time famous baseball players and presents insights using tableau. The visualization shows the impact of handedness of batters on their game. The visualization story shows that the left handed batters have higher averages and have hit more home runs compared to their right handed batters in general. It also presents the same similar analysis at more granular BMI categories for each handedness.

## Design:

I wanted to explore impact of height and weight on batting average and home runs hit. The height and weight alone couldn't give better insights. So, I clubbed both into BMI.

Next, I explored impact of BMI on average score and home runs for different handedness using scatter plots. However, the scatter plots looked very chaotic. After the feedback for the same, I converted the scatter plot into bar chart by binning BMI and using it for the same analysis. It helped to generate cleared insights into impact of handedness on average and home run hits for each BMI bin.

Then, after the feedback that there are lot of charts and I'm trying to show multiple things in one storyline, I redesigned the story to explain only one question ie do left handed batters have advantage over right handed batters. I removed unnecessary charts from the story line and kept it simple to explain the impact of handedness on their game.

## Feedback:

Below are the feedback received on the first iteration of the visualization.

1. Visualizations look exploratory than explanatory
2. There is no clear expectations or story across different visualizations
3. Some of the charts look very chaotic and don't know what to discern from them.
4. There are lot of sheets and difficult to follow the story.
5. Start exploring only one story at a time and then dive deeper.

## Resources:

I referred youtube videos(mentioned below) to create 100% stacked bar chart but didn't end up using in the final version.

<https://www.youtube.com/watch?v=rjhrwfAowel>