

# Project Links

<https://public.tableau.com/profile/nicholas.hodges#!/vizhome/DANDBaseballVisualization-1stDraft/BaseballStory>

<https://public.tableau.com/profile/nicholas.hodges#!/vizhome/DANDBaseballVisualization-Final/BaseballStory>

## Summary

In this project, I present important findings, in a visually appealing way, about a dataset of baseball players. The dataset includes handedness (left, right, or both handed), height (in inches), weight (in pounds), batting average, and number of homeruns. I have cleaned the dataset of 1,157 players by removing any players with a “0” batting average or duplicate names, leaving 887 records. The story depicts how differences in height, weight, and handedness affect player performance.

## Design

### Homerun Leaderboard:

I chose a horizontal bar chart to display the top 20 homerun hitters. I encoded handedness to the color of each bar.

## **Top 10 Performers:**

First, I engineered a new feature called “Performance” which was a product of batting average and number of homeruns. Then, I chose to display the top 10 players by performance in a packed bubble chart. I encoded performance to size of the bubble and handedness to the color.

## **Homeruns vs Batting Average:**

I used a scatter plot to graph the players based on number of homeruns and batting average. I encoded handedness to color to easily see the distribution of each group. I then added trend lines by handedness and average markings to more easily understand the data.

## **Height & Weight:**

I also used a scatter plot to chart the players based on height and weight. I encoded performance to color hue to show where better players fell. I then added median and quartile distribution markings to both axis to easily see if a player’s height or weight was typical.

## **Layout:**

- Dashboard 1: Top 10 Performers + Home runs vs. Batting Avg
- Story: Dashboard 1 + Homerun Leaderboard + Height & Weight

# Feedback

I showed coworkers the story and received advice to make the following minor adjustments:

- Better formatting for the tooltip when hovering over data for less confusion
- Add a handedness filter to the Height & Weight chart for curious explorers
- Include more players in the packed bubble chart but only label the top 10 players

# Resources

- Udacity Data Visualization Course