

## Tableau Writeup

- **Links to Tableau Workbooks:**
  - Version 1 - [https://public.tableau.com/profile/sabrina5044#!/vizhome/BaseballVisualizationinTableau\\_V1/Story1](https://public.tableau.com/profile/sabrina5044#!/vizhome/BaseballVisualizationinTableau_V1/Story1)
  - Version 2 - [https://public.tableau.com/profile/sabrina5044#!/vizhome/BaseballVisualizationinTableau\\_V2/Story1](https://public.tableau.com/profile/sabrina5044#!/vizhome/BaseballVisualizationinTableau_V2/Story1)
- **Summary:** in no more than 4 sentences, briefly introduce your data visualization and add any context that can help readers understand it
  - A big statistic in ranking baseball players is batting average. This is a player's number of hits divided by their total at-bats. This data set has information on several other player statistics, in addition to batting average. I thought it would be interesting to see if any of these additional items could have an influence on batting averages.
- **Design:** explain any design choices you made including changes to the visualization after collecting feedback
  - First, I explored the data to see what kind of information is in the file and created some basic visualizations to become more familiar with it.
    - I needed to find out what the Avg column represented. All the other columns were self-explanatory. The Avg column is the players batting average which is calculated by dividing their hits by total at-bats. The number can be between .0 and 1, with average in the whole league usually around .250 (from mlb.com).
    - Any record without a batting average was removed. There were 891 records after this change.
  - I started comparing the data to find out what questions could it answer or were there any insights to be revealed This helped me develop an idea for a main question to explore and answer.
    - Possibilities for main idea/question
      - Does height and weight have an effect on homeruns hit?
      - Do the number of homeruns hit result in a higher batting average?
      - Does a certain handedness result in more hits? Homeruns?
      - What factors have an effect on batting average?
        1. Height and weight
        2. handedness
        3. homeruns
        4. Which one makes the biggest impact?
  - I chose to look at the possible effects of the factors on batting average.
  - I used several different types of visualizations, such as pie, bar and scatter plots. These choices were based on what type of data was used and how it was being

compared. I also tried not to be too repetitive in my choices to provide visual interest to the story.

- **After Feedback:**
  - Removed the unused Story title
  - The people who reviewed it were really into baseball and liked the visualization a lot. Most of their feedback was about adding more data points to the story or getting more current data, and not about changing what was already available in the story.
- **Feedback:** include all feedback you received from others on your visualization from the first sketch to the final visualization
  - Need to change title from Story 1
  - Needs more recent information on the hitters
  - Why are pitchers included? They normally do not hit. They use pinch hitters.
  - Including years active could add more to the analyzation
  - Tracking home runs over the years could be interesting. Was there a rise and then fall during the steroid controversy?
  - Not surprised about the left-handed batters having higher batting averages. The switch hitters bat left when against a right-handed pitcher.
- **Resources:** list any sources you consulted to create your visualization
  - <http://m.mlb.com/glossary/standard-stats/batting-average>
  - [https://en.wikipedia.org/wiki/Switch\\_hitter](https://en.wikipedia.org/wiki/Switch_hitter)
  - <https://community.tableau.com/thread/154104>
  - [https://help.tableau.com/current/pro/desktop/en-gb/dashboards\\_organize\\_floatingandtiled.htm](https://help.tableau.com/current/pro/desktop/en-gb/dashboards_organize_floatingandtiled.htm)
  - [http://mlb.mlb.com/stats/sortable.jsp#elem=%5Bobject+Object%5D&tab\\_level=child&click\\_text=Sortable+Player+hitting&game\\_type='R'&season=2019&season\\_type=ANY&league\\_code='MLB'&sectionType=sp&statType=hitting&page=1&ts=1579888222129](http://mlb.mlb.com/stats/sortable.jsp#elem=%5Bobject+Object%5D&tab_level=child&click_text=Sortable+Player+hitting&game_type='R'&season=2019&season_type=ANY&league_code='MLB'&sectionType=sp&statType=hitting&page=1&ts=1579888222129)