

# Create a Tableau Story

by: Matthias Rieke

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## 1. Summary

This data visualisation is about the performance of baseball players. We take a look at if physical attributes like height or weight are influencing home runs and batting averages and if the handedness is a factor which influences a players performance. You can use the filters, e.g. to have a closer look at specific players, handedness or the performance level.

Initial Workbook:

[https://public.tableau.com/views/Baseball\\_Project\\_V1/Baseballanalysis?:embed=y&:display\\_count=yes&publish=yes](https://public.tableau.com/views/Baseball_Project_V1/Baseballanalysis?:embed=y&:display_count=yes&publish=yes)

Workbook after feedback:

[https://public.tableau.com/views/Baseball\\_Project\\_V2\\_after\\_feedback/Baseballanalysis?:embed=y&:display\\_count=yes&publish=yes](https://public.tableau.com/views/Baseball_Project_V2_after_feedback/Baseballanalysis?:embed=y&:display_count=yes&publish=yes)

Workbook after feedback 2:

[https://public.tableau.com/views/Baseball\\_Project\\_V2\\_after\\_review/Baseballanalysis?:embed=y&:display\\_count=yes&publish=yes](https://public.tableau.com/views/Baseball_Project_V2_after_review/Baseballanalysis?:embed=y&:display_count=yes&publish=yes)

## 1. Design

- a. Distribution Handedness: I chose a pie visualisation, as it show best how handedness is distributed between all players.
- b. Correlations (such like batting average / height): I chose scatter-plots, as they show best if there is a positive or negative correlation between two variables. I chose not to plot all variables into one big scatter-plot, as this would be too overwhelming. In fact, i just picked the most interesting variables and plotted them in different visualisations.
- c. Home runs and batting average: I chose a bar chart combined with a line graph, to show the development of the batting average against the home runs.
- d. Home runs / weight / batting averages: Again, i did chose a bar chart, combined with a line and colour variation, to combine three variables and their behaviour in one plot.
- e. Height / home runs / batting averages: same as above
- f. Performance levels: This is a scatter plot which show the correlation between home run and batting averages, combined with a performance level categorization. I chose this categorization so that the reader can see at first sight, in which case a player is rated as good or bad.

- g. Performance level and handedness: This scatter plot is similar to the one above, but adding another insight. Now you can see how the performance level are distributed for left, right or both hands.

## 2. Feedback

### a. Feedback 1 (given by colleague / work):

Hi Matze! I just took a look at the link you provided me with. I found it quite interesting.

As you asked me what could be done better, below are some things i would improve:

- i. Labeling for handedness. What is b / l / r? I guess you mean left, right. B is for both? In my opinion, the labels should be easy to understand.
- ii. For the last two slides i a missing a bit of a conclusion or actionable advice. I guess that i can investigate by using the filters, but it is not written down somewhere.
- iii. Slide „Performance by handedness“. In contrast to the preceding slide, i am not able to filter for individual players, number of home runs etc. I would like to have more filters. Could you add some more?
- iv. What are the measurements for weight and height? I guess this is a US-Value, but you don't get it by looking at the graph.
- v. I think that all axis labels are a bit too small. Can you change that?

That's it. If you have any questions, please just come over. Regards! Andy

### b. Feedback 2 (Udacity review): Overall, you've done an excellent job of communicating your findings through a combination of visualizations and commentary. The time and effort you've put into your project are clearly evident. There are, however, a few changes that need to be made in order to meet this requirement.

- i. For the purposes of telling a data story and communicating some of the contrasts in the data (e.g. the differences in positive and negative correlations for height and weight as they relate to batting average), it's good practice to use dashboards to group charts that are related by theme. Dashboards allow the user to look at related charts in a single view without having to toggle between story point slides. You can learn more about putting together dashboards here.
- ii. Charts are more user-friendly when they include titles. In my experience people almost instinctively look for titles in the upper margin of a chart to help figure out what a chart is plotting. Please add concise but descriptive titles to all of your charts. You may have noticed that Tableau deactivates the titles of charts that are added to a story point as a single worksheet. To get around this, try first placing the single chart onto a dashboard, then into the story point. This is another good reason to use dashboards instead of single chart slides.
- iii. In the case of the dual axis charts with bar and line charts, make sure the lines are different color that contrast with instead of match the color of the bars. In one chart, the line is not visible where it coincides with the bar chart.
- iv. Great job of carefully and concisely summarizing your findings. What's still an issue here is the summary of your findings for the scatter plot of home runs vs. batting average. Be very cautious about declaring a causal relationship between two variables. There is a weak positive correlation between the variables, but it's not accurate to say batting average may cause more home runs. Certainly, a higher home run count depends on a higher batting average, you have to hit the

ball to hit a home run, after all. Please see if you can reword your conclusions for this slide.

### 3. Resources

- a. Udacity course material
- b. Tableau community:
  - i. [https://onlinehelp.tableau.com/current/pro/desktop/en-us/buildexamples\\_scatter.htm](https://onlinehelp.tableau.com/current/pro/desktop/en-us/buildexamples_scatter.htm)
  - ii. [https://onlinehelp.tableau.com/current/pro/desktop/en-us/parameters\\_create.htm](https://onlinehelp.tableau.com/current/pro/desktop/en-us/parameters_create.htm)
  - iii. <https://onlinehelp.tableau.com/current/pro/desktop/en-us/changing-views-using-parameters.htm>