

Data Story Telling – Baseball Data , By Ehab Mansour Diab

Introduction

In this project I have done explanatory data visualization steps and to communicate the findings 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), height (in inches), weight (in pounds), batting average, and home runs.

1st Story:

https://public.tableau.com/profile/ehab.mansour#!/vizhome/Story2_15630229278840/Story1

2nd Story:

<https://public.tableau.com/profile/ehab.mansour#!/vizhome/ShowingtheeffectofWeightHightandHandendnessofBaseballPlayersPerformance/ElementsAffectBaseballPalyers?publish=yes>

Summary

In this project I have used different visualization techniques to communicate insights on baseball data. I have analyzed the relationships between variables, such as: handedness, batting average, height, weight and home runs. I found that As a conclusion, the top baseball performers are right handed, have a height 67 inches and weight of 200 to 210 lb

Design

- for first analysis, Handedness (percentage and effect on players performance), I chose a bar chart (**because it is** categorical data)

-For the other plots I decided to use area plots for reasons, first they increase the ink to data ratio, second it is much clearer compared to scatter plots,

- I decided to make 3 dashboards each one has two elements and their effect on one output (home run or batting) to make the viewer more engaged and easy to follow.

Feedback

1 -in the third dashboard, you can add more insights like while the height is increasing, the batting average is decreasing

Action: Done

2- in the fourth one,I think you should change the type of plot to be a scatter plot instead of area plot, that you can see the correlation clearer,

Action: Tableau did not accept scatter plot to this graph so I changed it to line graph

3- you have to avoid words like correlations while you're telling the story, this plot is an explanatory, so you should assume the stakeholders don't know these words.

Action: Avoided

Feedback from udacity reviewer

You have an excellent set of plots however there are few issues you need to consider.

- First try to group plots of same theme into a dashboard which will reduce the number of slides and make your story more engaging.
- When using dashboards, you will notice that the titles will be enabled for every plot which is a requirement to be fulfilled
- Make sure to provide a clear title for your story
- Please avoid abbreviations on the labels like "R" , "Avg", and "B" and replace them with full clear words

In this section, you need to include at least one relationship or finding you managed to extract from your plots, for example is there any relationship between the player height and batting average? document such findings here

You can take a lot from this section and add it to the summary section and here, you need to include the reason behind the design decisions including the choice of the plot, colors or any type of decision taken. For example document why you used a line plot to a bar plot, it is because of the variable type...

There is little difference between the 2 versions of the story and little to do with the feedback collected. I will suggest you keep story 2 as the first version and use the points I highlighted above to create the final version for the next submission

- You still have to replace abbreviations such as L,R, and B with full words because not all the readers would understand what these letters stand for.

Conclusion

As a conclusion, the top baseball performers are Left handed and have a height of 67 inches. There is no clear relationship between performance and weight