Differences among the performance of the baseball players

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Links to visualizations:

Links to the first and final version of the story *Differences among the performance of the baseball players*.

First story visualization: https://public.tableau.com/profile/alen.mrsic/story_v1
Final story visualization: https://public.tableau.com/profile/alen.mrsic/story_final

Summary

Through my visualizations I wanted to find out does the measures players hight, weight or handedness affect on a players performance, i.e. batting average and numbers of scored home runs. I created different graphs to figure it out how variables affect each other. What I found out that higher score (home runs and batting average) will make a player whose height is between 72 and 74 inches and weight between 179 to 196 pounds. Also from Batting average and Home Runs by Handedness graph we can see that best batters by batting average have some of the lowest home run counts and vice versa. Reason for that can be that players need to riskier more if they want to score a home run, so they will miss more balls that pitcher throws. Players who play more carefully and not risk so much will hit more balls per average.

Design

In first story visualization (story_v1) I created five different graphs. The most graphs have default values, colors were automatically chosen. The idea was to see how variables height and weight effect on a number of scored home runs. Also, I want to check if the handedness plays the main role on player performance (scored home runs and batting average).

After the feedback, I pay more attention to details like title names, filters, colors and I started with that. Then I merged logically the same graphs to one and grouped them by handedness, to be easier to read and understand does the handedness effect on players performance. I put some additional information (annotate marks) to the best-scored value from the graph. A new thing in a final story was calculated field "Height / Weight ratio". I divided height with weight and created numeric bin which helps me to easier compare and understand how those effect on home runs and batting average score. On the dashboard, I grouped all graphs by handedness to be easier to read and understand the data.

Feedback

Feedback received from the first sketch (story_v1) :

- Feedback (F): The name of the story title is "story_v1", what that means? There are strange title names, no naming convention on the axis, what HR means?
  Action (A): I changed the name of story title to *Differences among the performance of the baseball players* and also added title for each graph. Axis names are now standardized and they explain measure that is present in graphs.

- F: Why are the colors different on some graphs (specialy green), are they represent something special?

A: There's no reason why the colors are different (green or blue), so I changed all colors to form the same pallet. I grouped by handedness by colors to be easily identified which hand players use for batting.

- F: There are three similar graphs for player handedness, can you transform that?
  A: I merged plots that are into one. Because all three variables: home runs, batting average, and number of records are grouped by handedness, so it's logical to have those three graphs merged together.

- F: Can you add a filter that will dynamically change graphs on the story?
  A: On the final story, I added multiple values drop-down filter grouped by handedness that will automatically change graphs and data (depends on selected values).

Resources

https://kb.tableau.com/articles/howto/adding-filters-to-dashboards
https://onlinehelp.tableau.com/current/pro/desktop/en-us/story_create.html
https://onlinehelp.tableau.com/current/pro/desktop/en-us/publish_workbooks_tableaupublic.html
https://www.tableau.com/about/blog/2012/7/filtering-parameters-18326