For our project, the data we chose to visualize is Cubs Pitcher Shota Imanaga's 2024 Pitch Map. This data includes his Pitch Speed, Spin Rate, and Pitch Type. So to represent this data, we decided to use a scatter plot which contains all of the 3 information stated in the previous sentence. Furthermore, we include a strike zone that overlays the scatter plot. This would show which shot was within the strike zone and which was not in the strike zone. Since there are multiple pitch types, we decided to use colors to differentiate each of them. This information is also shown in the table we created below the visualization which explains more on what each Pitch Type is.

For the interactive aspect of this project, we decided that we should create an option for users to filter the data points based on the date since if we don't there would be too much data and that could be hard to read. So we created an interactive button that allows users to select a date starting from April 2024 and see what Shota Imanaga's pitch is like on that date. Moreover, we implement a functionality that allows users to see the data of each point by hovering over the data. The information would show up right next to the cursor allowing the users to easily see Shota Imanaga's pitch info. Additionally, if the user doesn't want to hover over the data to see the information or wants the information to stay on the screen despite the location of the curser, they could click on the data point and it will show Shota Imanaga's pitch info. We did consider creating a big box next to the visualization that would show the data if the user clicked on it, but we decided that could be an inconvenience for the user because it would be hard for them to keep track of which data point they clicked on. This led us to create the small box next to the cursor when the users hover over the data points or click on them. Moreover, we considered creating a line from a data point to the information box, but we thought that this would make the visualization messy and confusing so we decided to not implement it.

Throughout the whole development process, we split the work equally and would meet up in order to work on this project. Alex created the data and plotted the data to a scatter plot. Bhakin created and designed the website. Alex implemented the filtered data button below the visualization. Bhakin implemented the hover data and clicked on the data functionality. Both Bhakin and Alex worked on this writeup. However, this was just a matter of who wrote the code since we were together throughout this entire process so we were able to help out and bounce ideas off of each other. This project took roughly 5 hours to complete. The aspect that took most of the time in this project was the interactivity since we wanted our project to look good and actually work the way we wanted so we were spending a lot of time working and testing that the interactive functions we made actually worked.