

CSE 758: Data Visualization
Assignment #2: Interactive Visualization

Data Preparation: I split the data into multiple csv files for each year and placed them in a separate 'data' folder. Further I, created JSON files for each year creating a tree of the entire tournament with appropriate data.

Story: The story in my visualization is depicting the entire tournaments fixtures using a sunburst wheel and providing the stats for the chosen/selected, presenting a comparison with the opponent in some aspects of the game.

Design:

- I have provided a slider to select the year, this loads the appropriate JSON data. I have used a table to compare the stats of a player against his opponent.
- I have used a sunburst wheel to represent the fixtures of the entire tournament, each layer representing a round of the tournament.
- I have used further <divs> to display the tournament winner with his respective country flag, information required to understand and use the interactive visualization.

Colors:

- As this is a d3 visualization and supposed to be looked in full screen, I have used a light blue background and used colors so that the significant information pops out more and provide a better look to the viewer.
- The color for winner clearly denotes the intention. And for the table header I used green color in contrast to the light blue background.
- The color for the sunburst wheel is the exact match to the Australian open logo color to maintain consistency with the theme of the visualization.

Design Rationale:

- The visualization provides a slider for selection the year, which is a much simpler and convenient option than a dropdown box.
- Instead of showing the data for all the matches I have displayed only the data relevant to the selected match to avoid a clutter of information.
- The cards Present data dynamically based on the JSON data, therefore there is no data presented when no year is selected. Also, to be noted that the gaps in the sunburst wheel are due to player being given a bye or his opponent being disqualified or unable to play.

Notes:

The visualization is best viewed in full screen. Browser: Firefox

The gap in the wheel is due to no match not being played either due to various reasons.

Some data in the csv file regarding serve stats are missing and instead of leaving them blank I have substituted them with 'N/A'

Also no stats are displayed when you go all the way to a single player.