

CSE 591 : Assignment 2

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The project comes with 2 visualizations - one static and one interactive. The static visualization was plotted by analyzing some important trends in the data. The winners service is a game changer in the sense that, the winner usually always had a much better service using which he can score more points against the opponent. This is probably because the service is that single play wherein the player is in full control of exactly how that ball is supposed to reach the opponent. The service is a very fast shot, but from the data both the winner and the loser had almost equal service speed.

I was also able to see consistently that on average the winner had a much better first and second service than the loser based on analyzing the percentages. This is reflected in the stacked bar graph. It is clearly seen that the winners serve trumps that of the losers. D3 charting libraries were used for this. The stacked bar graph was used because it is very easy for the viewer to see the trends over the years while comparing sub-components of the graph. The legends make it easy to index the different components of the graph for comparison. Also from the dataset, it was observed that both the winner and the loser had a much lower chance of winning the point during his second service. This is because the players play more conservatively to avoid a double fault which results in the shot being much slower.

The next trend to observe from the data is determining the winner. The winner was determined by comparing each players victories over the entire data set for every year. Quite naturally, the winner is the person that won the most matches.

The other graph - the "magic graph" is an interactive graph that can provide the user with a lot of information about the matches over the years. It gives a very clear picture of how a player is performing. It is possible to see the good players from the rest as they would have a higher score next to their names and also visually from the area they occupy.

The best part is when the mouse is a particular player when the whole graph shifts to show us who are the players that were beaten by the player. Stunning colors are used for each player to show the contrast and make it easy to see. There are a number of viewing options. For those who only watch the quarters or semis(cut to the chase), they simple need to click the top 16 or top 8 under the rank tab, and the data shown will be a neat representation of approximately the players that remained in the quarters and semis. For the more inquisitive, simply click the higher numbers, it does get more cluttered though, which is quite natural when we try to map over 200 data values into a single pie chart.

And finally, it is possible to see the year wise results of all matches in case you missed any! Simply choose one of the years and go back in time. As a bonus, for all those that just want to know who the winner is, there is a special tab just for that, where a simple click of any year would give the corresponding champion of the same.