Assignment #2: Interactive Visualization Exercise

Task:
Explore the data set (10yearAUSOpenMatches.csv). Use any **d3** visualization techniques to produce an interactive visualization and one page of write up to describe the story.

Note: You are free to transform the data, import external data and you are free to explore Tableau public (http://www.tableausoftware.com/public/), google charts (https://developers.google.com/chart/), or other public available tools. However, you MUST use **d3**. You are not required to include all the variables provided in the dataset.

Data set:
This data set includes 10 years AUS Open professional Tennis men's matches data (player1, country1, variables1... are the winner's game statistics; player2, country2, variables2... are the loser's game statistics).

> **Service variables:** firstServe (first serve inside service box %), ace (good serve that was not received by the opponent), double (fault on service point. Fail to serve inside the service box on both service chances), fastServe(KPH), avgFirstServe(KPH), avgSecServe(KPH).

> **Match performance variables:** firstPointWon (points won on the first serve %), secPointWon (points won on the second serve %), break (break point conversion %), return (return points won %), total (total points won of the game), winner (points won that were not received by the opponent), error (points of mistakes), net (net approaches and win the point %).

Data is available on Canvas as a csv file. You are free to transform to other formats if necessary (i.e. *.json, *.tsv)

Hint: you may tell a story by a sequence of interactions.

Evaluation: Data analysis (30%), Rationales of your visualization design and story (20%), D3 Visualization: interactivity (30%), aesthetic (5%), originality (10%), satisfy submission criteria (5%).

Submission:
1. This is an individual assignment.
2. Your submission should include a page of your write up (you may also include the write up in the html pages with equivalent one-page text) and your D3 pages. Zip all the files.
3. File must be named as `Assign2-YourFirstnameLastname`
   (i.e. *Assign2-SharonHsiao)*
4. Submit it through Canvas.
5. Deadline: **Monday 03/02/2020, by 11:59pm (midnight).**

* Your assignment will be discussed in class or on blog.