Project documentation

* What is the Project purpose?
  + The project’s purpose was to glean information from The Association of Tennis Professionals results over the last 10 years. I wanted to see what players were playing most often from names to the rankings. I also wanted to let newcomers know what tournaments were the biggest. I also wanted to be able to see who was playing who, so I made a network graph where you can see opponents from different tournaments.
* Data description + How was the data collected?
  + I have two datasets, one from 2013-2023 and one from 2000-2014. The majority of the project focused on the more recent results and more in-depth information on the data sets can be found under the “Data Sets and Descriptions” folder. The data was collected by the ATP tour and aggregated into the two data sets. Both data sets have probability data from different betting companies, but that data was not used in the visualizations.
* Who are the users that this Shiny App was made for?
  + This project was designed for people who play and are interested in tennis. As a tennis player myself, I created visualizations that I found interesting in the hopes that other players like me would find the information useful.
* What questions are you trying to answer?
  + I wanted to know what players played the most matches on the ATP tour.
    - Word Cloud
  + I wanted to show newcomers what the biggest tournaments were.
    - Word Cloud
  + I wanted to see what ranking you would need to compete in ATP tournaments as opposed to the entry tournaments like challengers.
    - Histogram
  + I wanted to be able to compare the rankings of players over the time period of the data.
    - Player Ranking over Time
  + I wanted to
* What insights did you get from your data?
* What needs improvement? (Wish list)
  + I want to further integrate the results from the older data set (2000-2014) into more of the graphs.
  + I want to use the location data from the older data set to plot the locations of tournaments on a map.
    - Creating a good-looking map was proving to be difficult.
  + I wanted to include match data on the network when you hovered over the nodes.
    - Proved to be very difficult to implement.
  + I also wanted to look into the
* Sources or References (with appropriate credits)
* Proper documentation
  + Basic documentation
  + Describing the process and development to make your work reproducible, for example, *tidying data*.
  + Description of design decisions (encoding/mapping). Use the taxonomy of the what-why-how analysis framework presented by Tamara Munzner.