

Homework 4

NBA Data Visualization

1. Calculate the winning ratio of New York Knicks in different Seasons. Visualize how the winning ratio changes every year. (Barplot is the most appropriate here.)
2. Calculate the winning ratio both home and away. (The row labelled with **visiting = 1** is an away game.) Create bar-plots to show home and away winning ratios for each season.
3. Plot five histograms to display the distribution of **points** in each season.
4. (Optional) Calculate the average winning ratio and the average point-difference (i.e., **points-opp**) by each opponent. Create a scatter-plot to show winning ratio versus average point-difference. What pattern do you see in the graph?