

Movie dataset

1. Getting to know the data
 - a. Import the data
 - b. View the data
 - c. Look at column names
 - d. Look at dimension of data (rows and columns)
2. Scatterplots
 - a. do scatter plot of Tickets Sold and Gross (Is the trend expected?)
 - b. What is the correlation between tickets sold and sales? Is this expected?
3. Other plots
 - a. do boxplot
 - b. do histogram for type of films
 - c. do histogram of ticket sales. Try different bin numbers.
 - d. Add frequency count to top of bars.
 - e. do barplot of genre
4. Create a set of functions that compute specific metrics by genre:
 - average_number_of_tickets_sold
 - average_gross_sales
5. Use the functions created in 4 to compute these metrics by distributor and genre.
6. Make a shiny app that allow to explore the datasets using the above points and add any additional feature you wish.

Winter Olympic

Create a RMarkdown (.Rmd) document that answers that addresses the following requirements.

1. Getting to know the data:
 - a. Import the data
 - b. View the data
 - c. Look at column names
 - d. Look at dimension of data (rows and columns)

2. Data is currently sorted by Rank. Sort data by total medals and country. Assign sorted data to a new data frame. Call it `sort_total`.
3. Use some function to look at data.
4. Look at some statistics
 - a. What is median of number of gold, silver, bronze and total medals?
 - b. Also look at the mean and total number of G, S, B and T medals
6. More statistics - subset
 - a. Redo above statistics, this time group by Region
 - b. Which region won the highest mean total medals?
 - c. How many countries are in this Geographic Region?
 - d. How many countries are in the EUROPE group?
 - e. What is the max number of medals won? What country won the max?

Summer-winter Olympic

1. Dealing with Data
 - a. Look at the column names and change names to more meaningful names.
 - b. The data represent, in order:
 1. country
 2. number of summer games played, gold, silver, bronze, total,
 3. number of winter games played, gold, silver, bronze and total, total
 4. total (Winter + Summer) games, gold, silver, bronze, total
 - c. use `table()` to find frequency of total summer games played
 - d. explore the data with other variables
4. Graphs
 - a. do histogram of summer games (total)
 - b. do histogram of winter games (total)
 - c. put above two histograms on one page
 - d. do two histograms on one page: total summer, total winter medals won
 - e. is there a correlation between number of medals given out in winter and summer? (do plot)
 - f. how about number of games each country competes in. Is there correlation between winter and summer?
 - g. look at distribution of each of the types of medals, by season (6 histograms on one page)
 - h. redo g with different number of bins (10 instead of 20)
 - i. explore data on your own

