

Module 1 Final Project

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Self paced

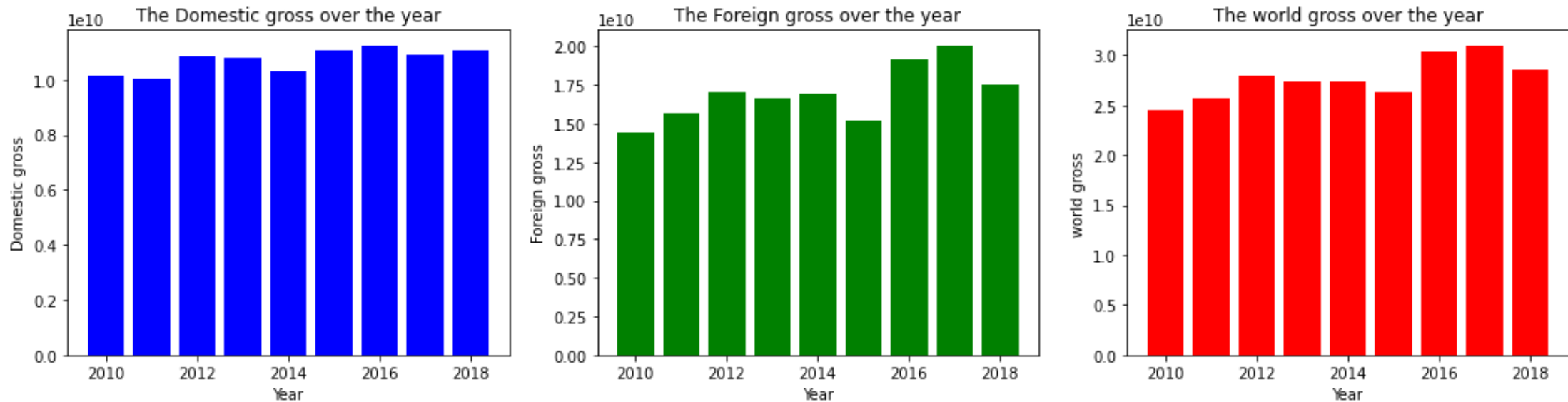
Aim

Doing data analysis and creating a presentation that explores what type of films are currently doing the best at the box office.

Questions for the visualization graph

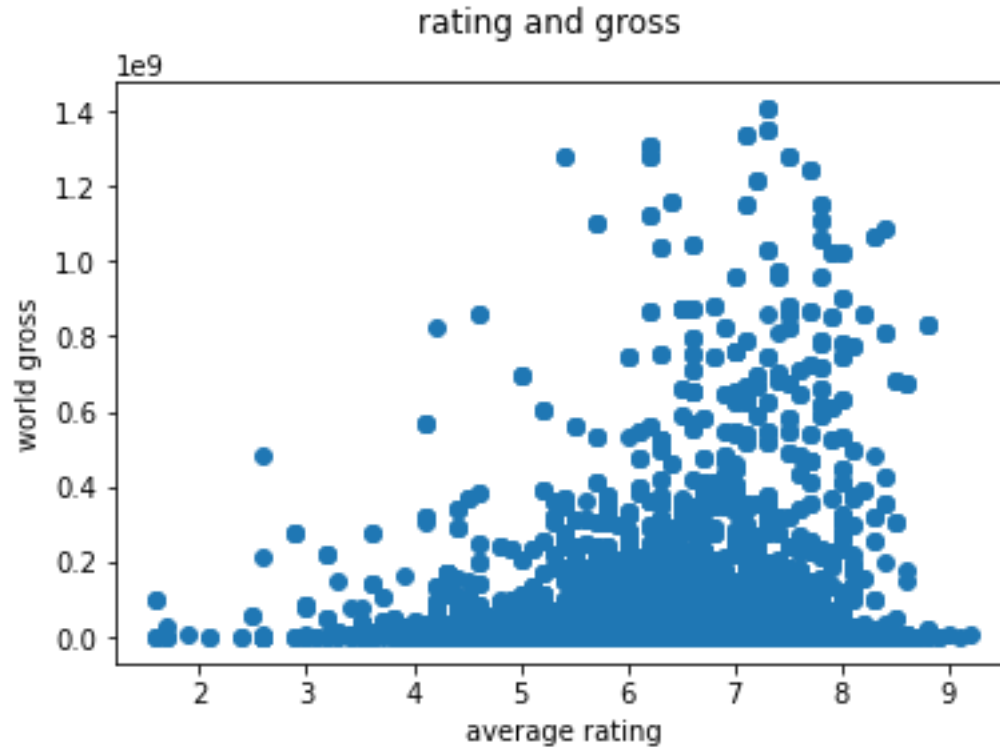
- 1.How does movie industry growth in these years? Print the graph of the domestic gross and foreign gross as well as the world gross for different years.
- 2.What is average rating as well as the gross earning for different category movies? Print out the relationship between rating and gross earning?
- 3.What is the total gross and rating of movies making in world for different genres? What is the distribution of top 200 movies which highest earned gross or highest rating. What is the number in 2018?

The domestic, foreign and world gross for all the movies from 2010 to 2018



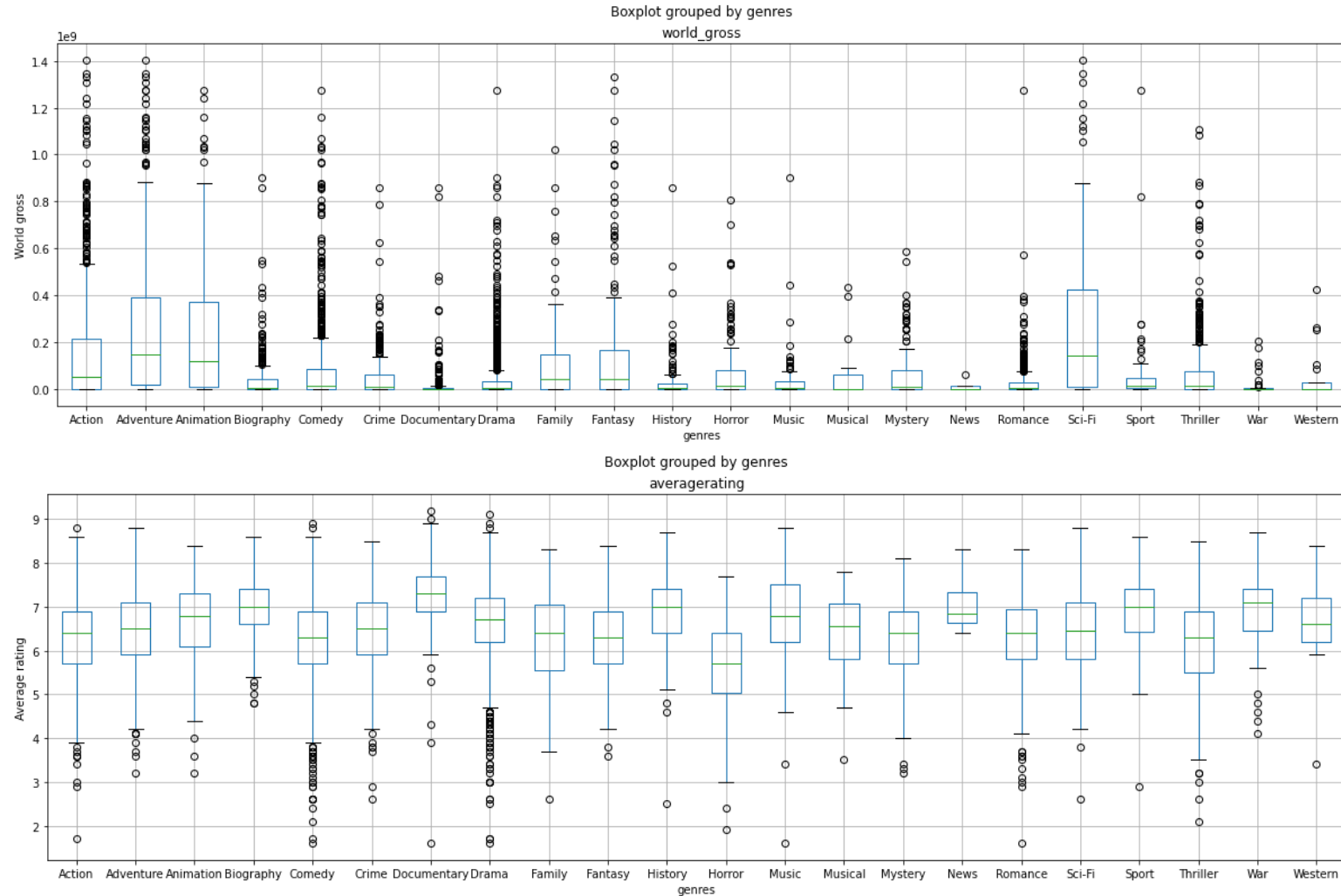
The graphs showed that, from 2010 to 2018, the total domestic gross did not change much. However, the foreign gross increased in general. Also, the total amount of foreign gross of all movies is almost two times larger than the domestic gross.

The relationship between rating and gross



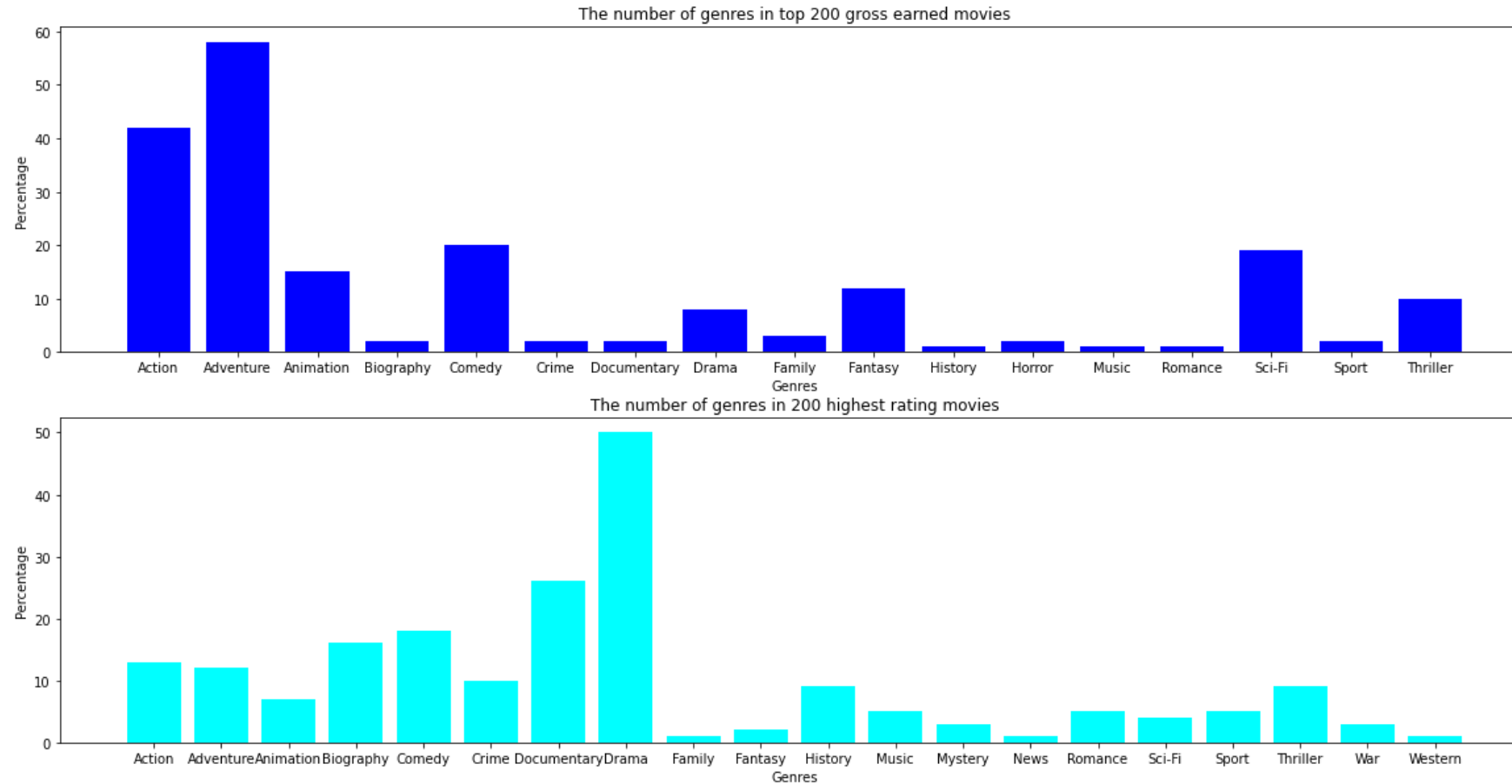
There is no obvious relationship between the world gross and rating of the movies. However, most of the high earning movie had high rating more than 6 but less than 9.

The boxplot of world gross and average rating



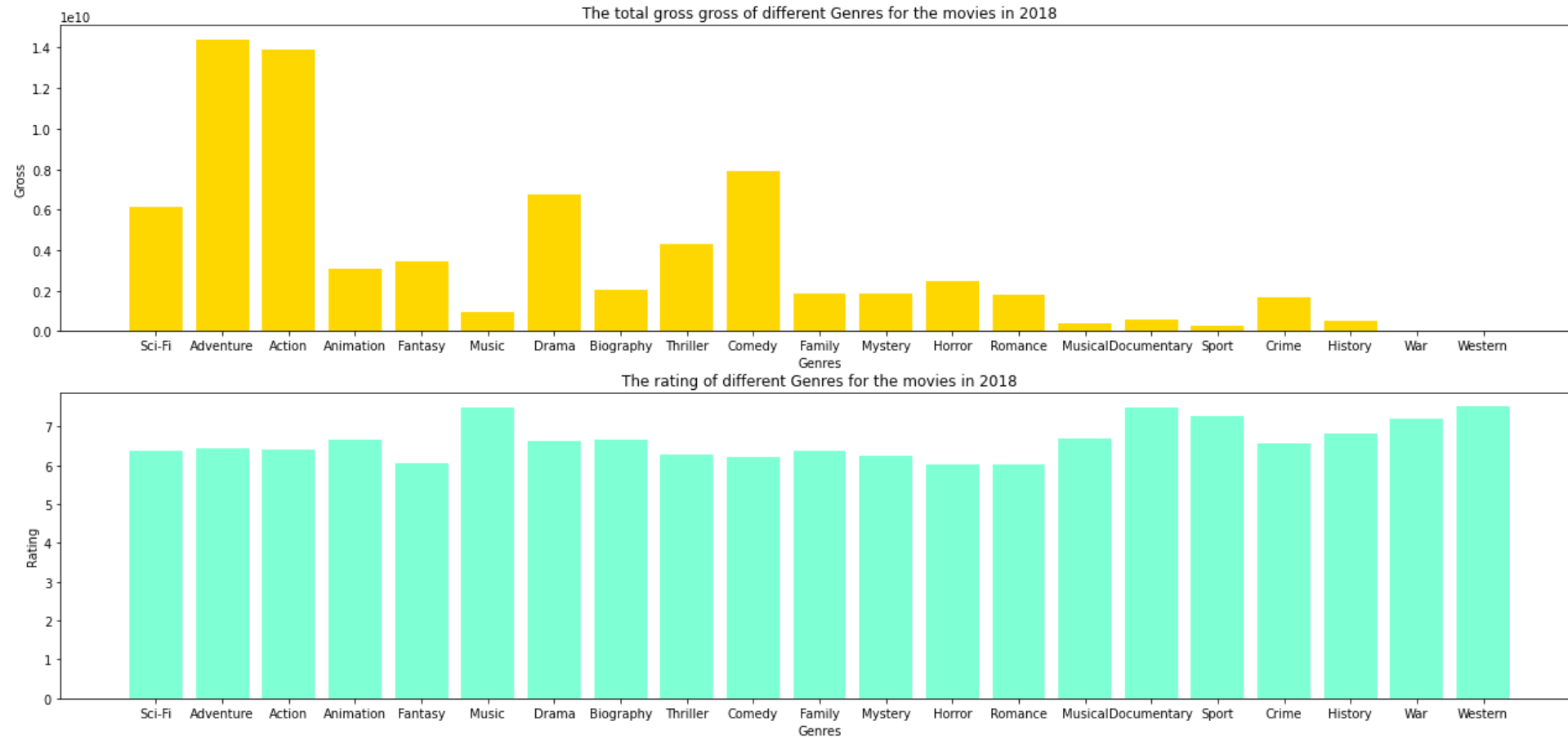
In general, the top four genres based on gross are adventure, animation, Sci-Fi and action.

The number of movies in each genre of top 200 gross and rating movies



In the top 200 gross earning movies, more than 25% of them are adventure movies and more than 20% are action movies.

The total gross and rating for different genres for movies in 2018



The data show that the average rating for different the genres are similar for all movies in 2018. The adventure and action earned more money than others.

Conclusion

- In general, the Adventure and Action movies earned more money than other types of movies. If we want to focus on the earning of the movies, choosing adventure or action or the mixture types containing these genres is a good choice. Also, the rating for these two types are above the average. If we want to focus only the high rating, selecting drama and documentary movies is good choice.