

Influencing factors of IMDB Scores





Dataset: IMDB Movies 2022 - Fall

Hypothesis: Can these factors influence IMDB scores?

Factors to consider:

- ▣ Country of origin
- ▣ Content rating
- ▣ Genre
- ▣ Budget



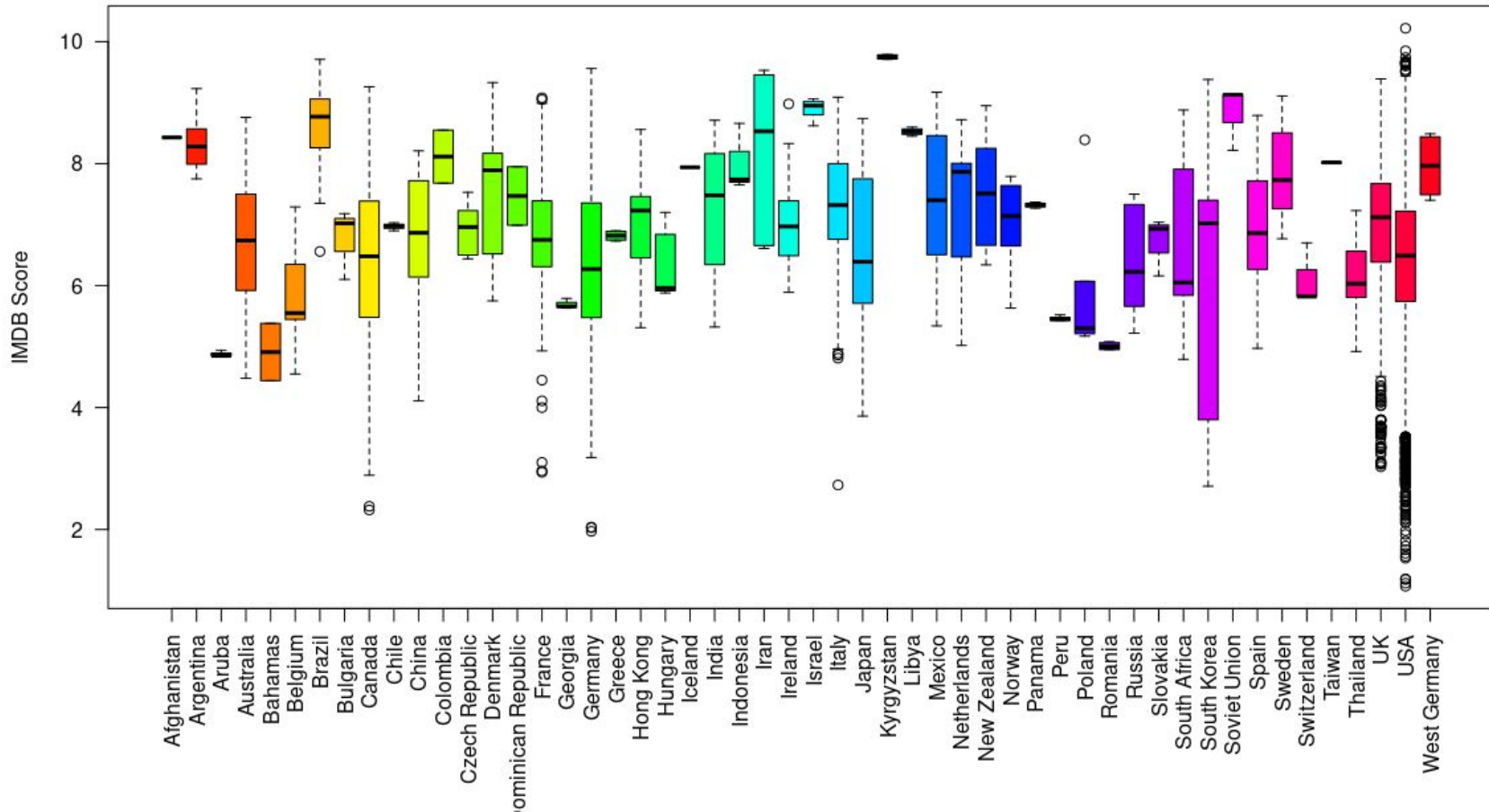
Investigating country of origin vs IMDb score

- Does any country have a significantly higher average score than the others?

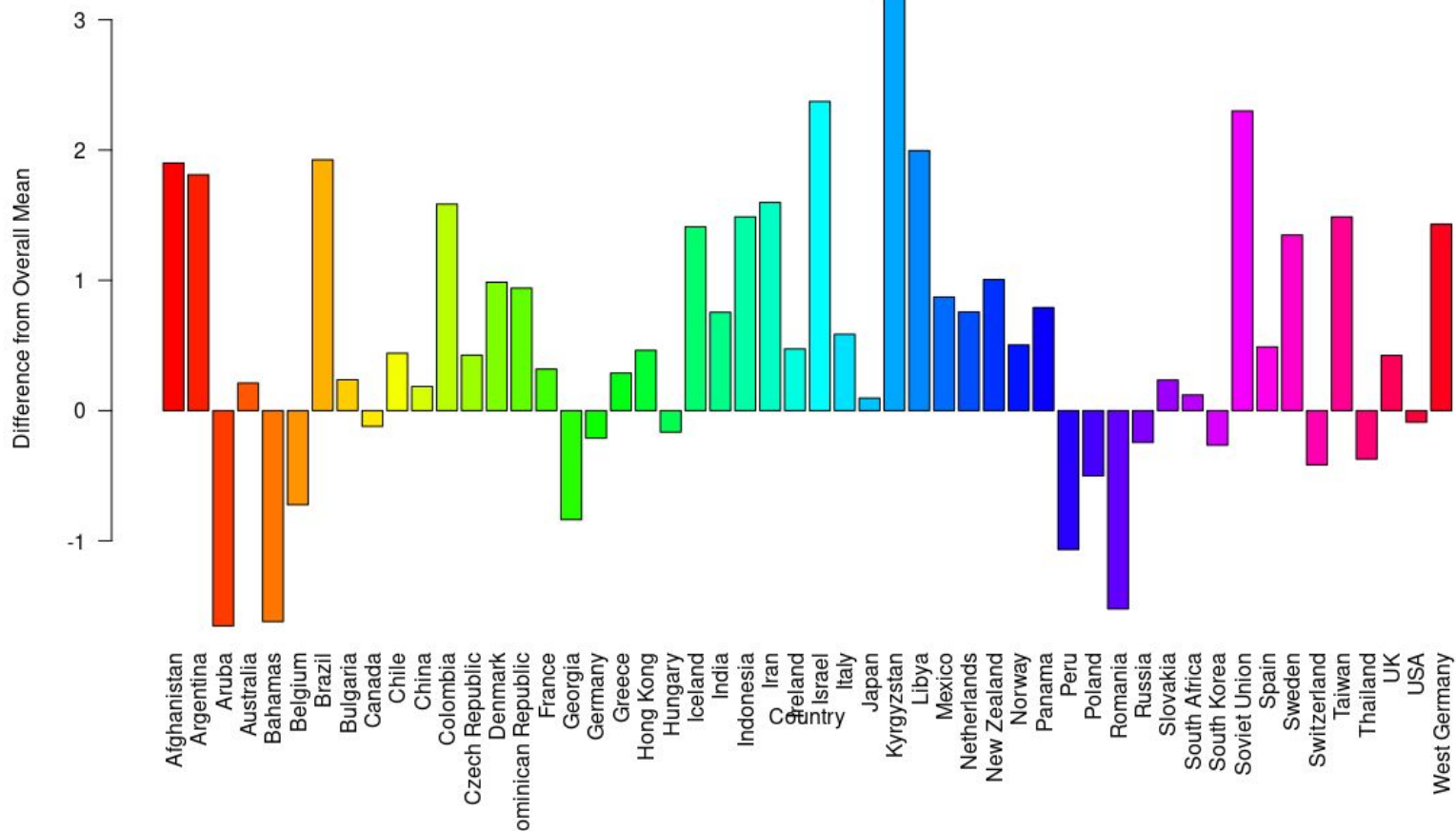
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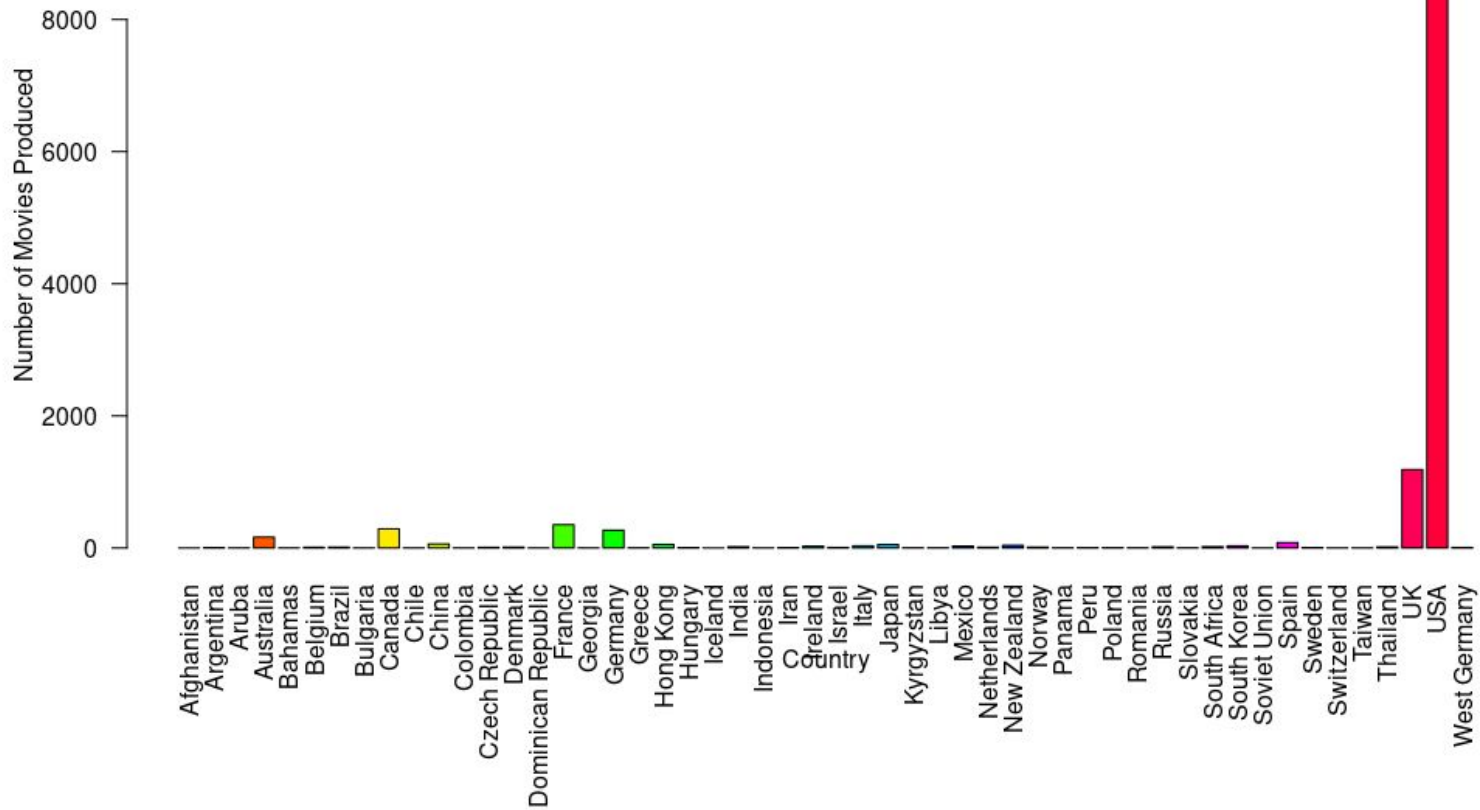
IMDB Score vs Country

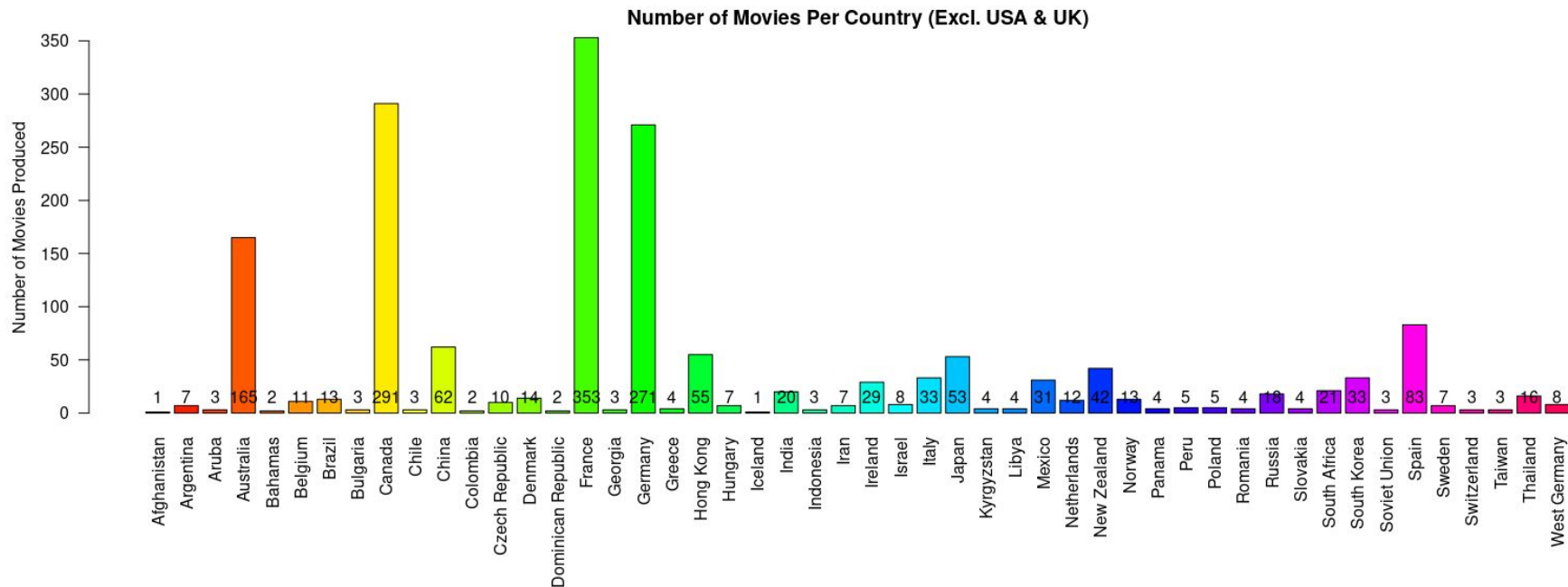


Mean IMDB Score Difference by Country



Number of Movies Per Country





Findings – Origin country

- Many countries do not have a statistically significant sample size
- USA and UK have significantly more movies than other countries

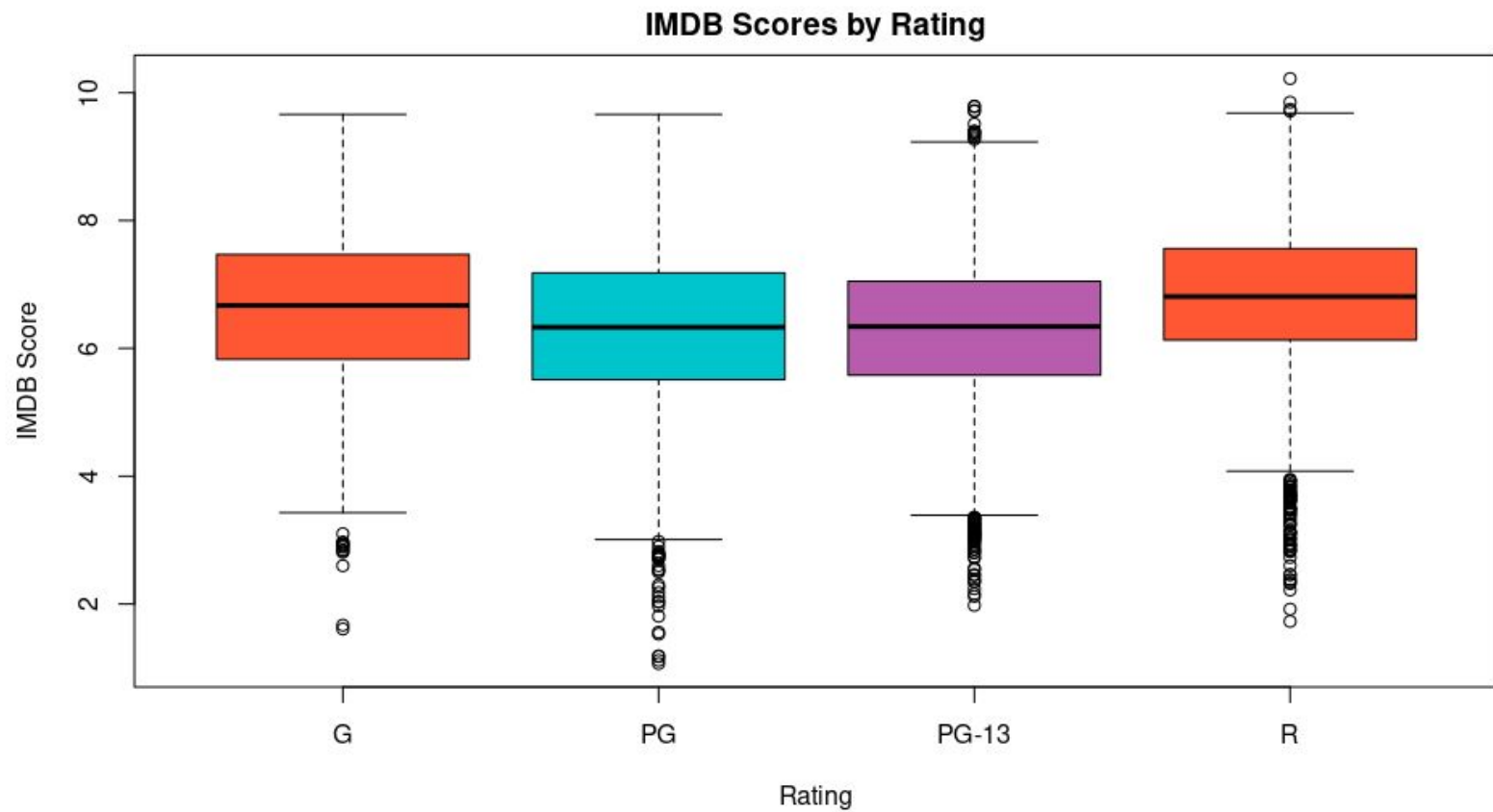
Hypotheses - Origin country

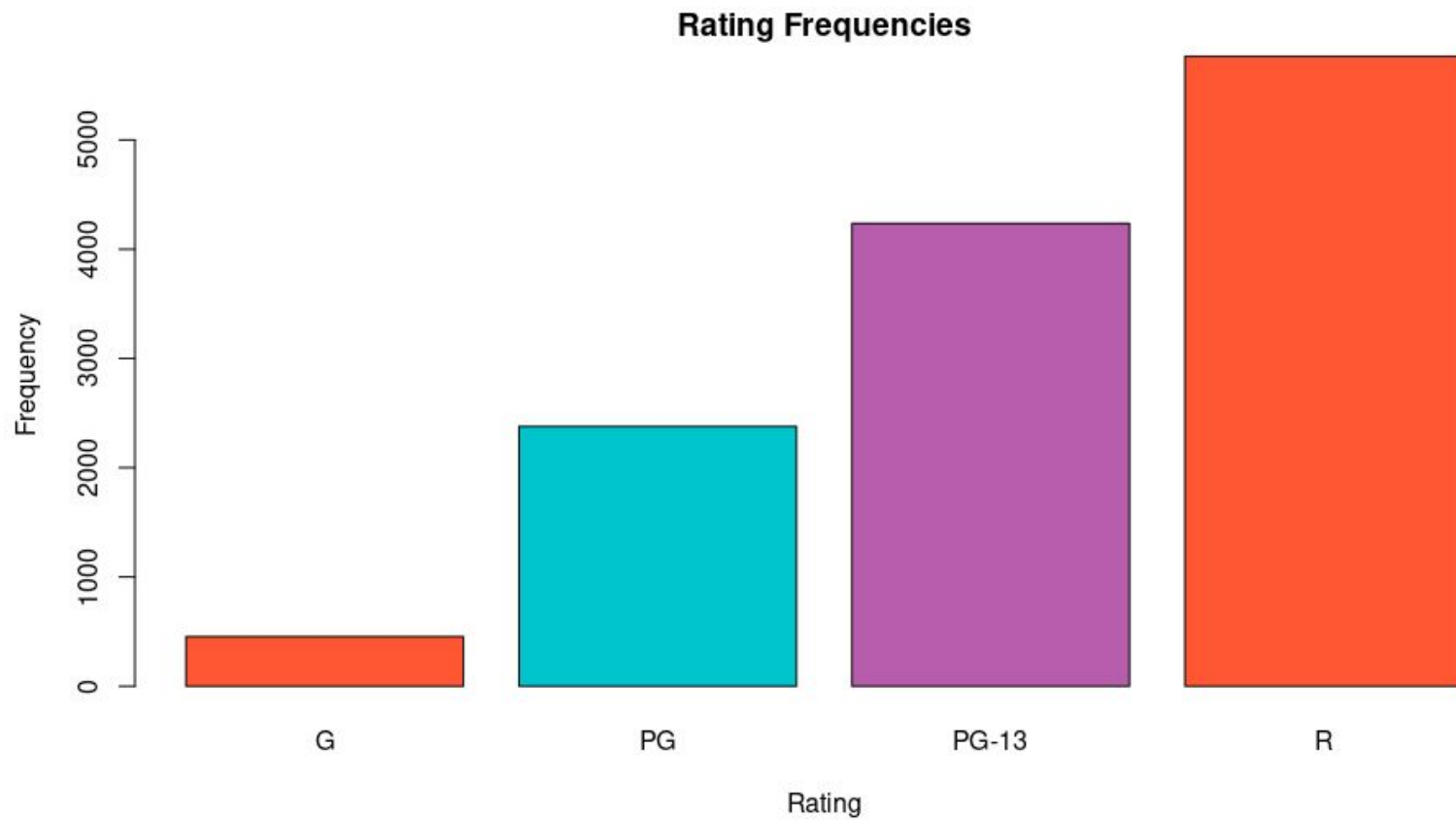
Hypotheses:

- Movies from UK have a higher score than movies from USA
- Movies from France have a higher score than movies from Germany

Investigating effect of rating vs IMDb score







Findings – Content rating

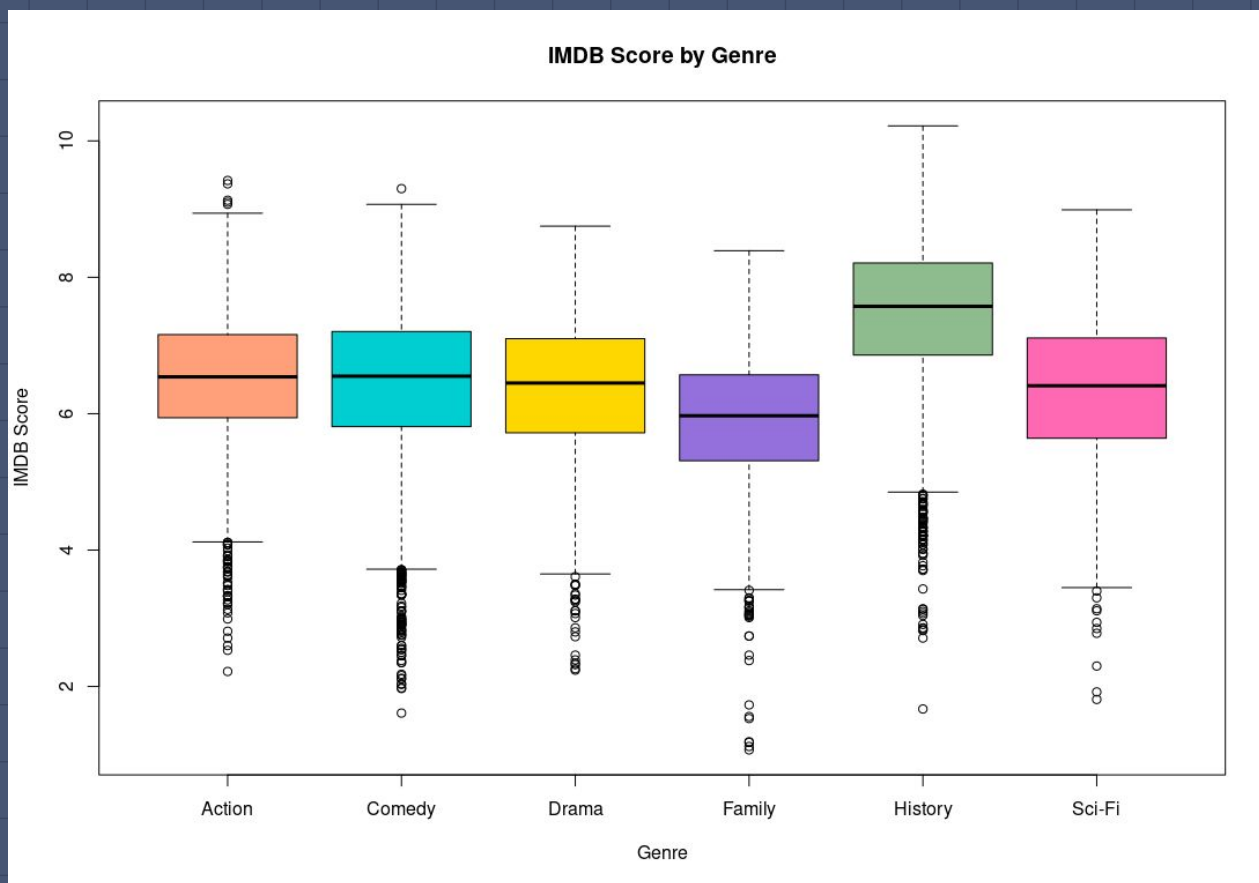
- Correlation between scores and content rating appears to be very weak
- G rating has fewest movies

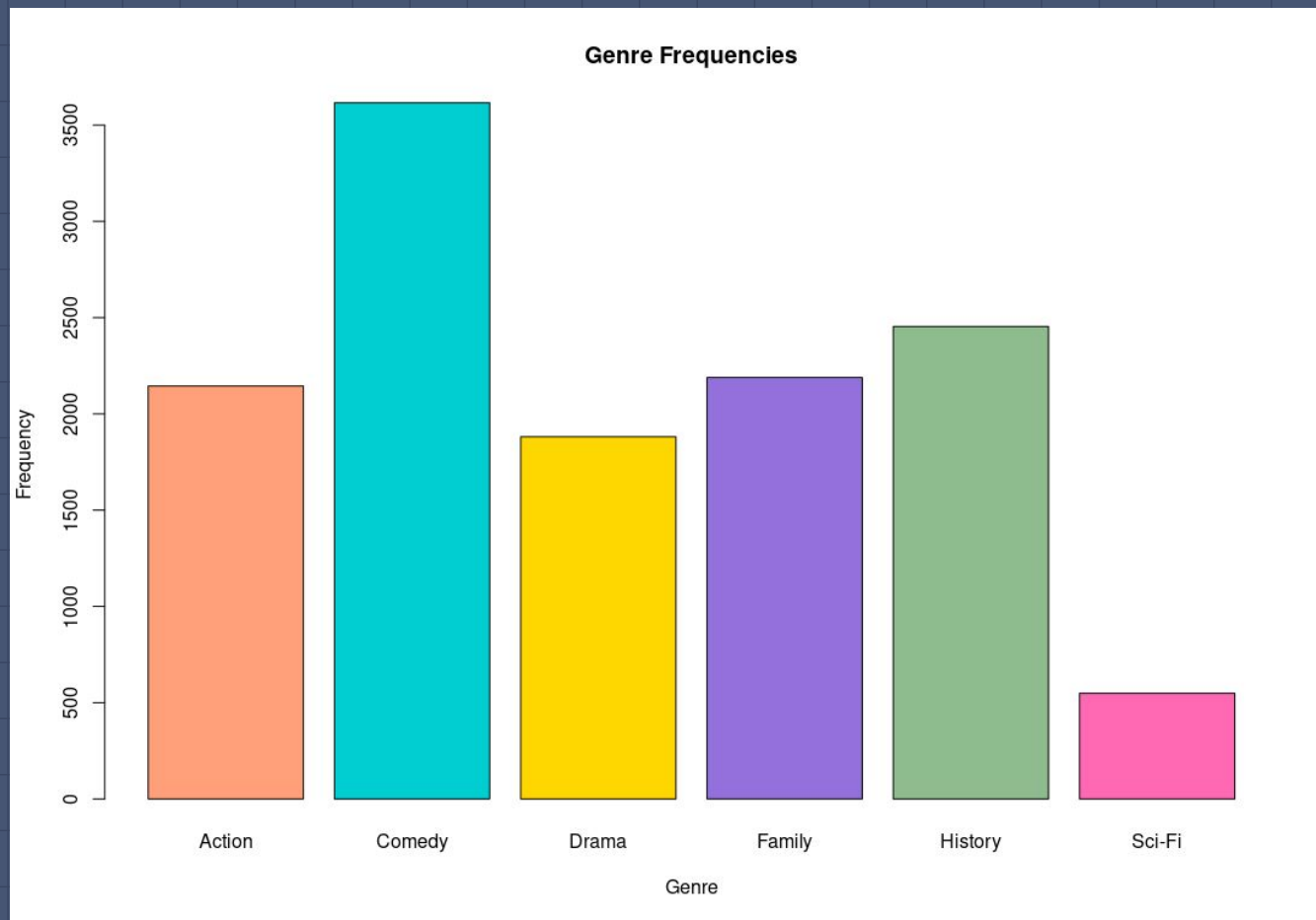
Hypotheses - Origin
country

Hypotheses:

- R-rated movies have a higher rating than PG-13 movies

Investigating effect of genre vs IMDb score





Findings – Genre

- History has highest distribution
- Other genres are generally uniform

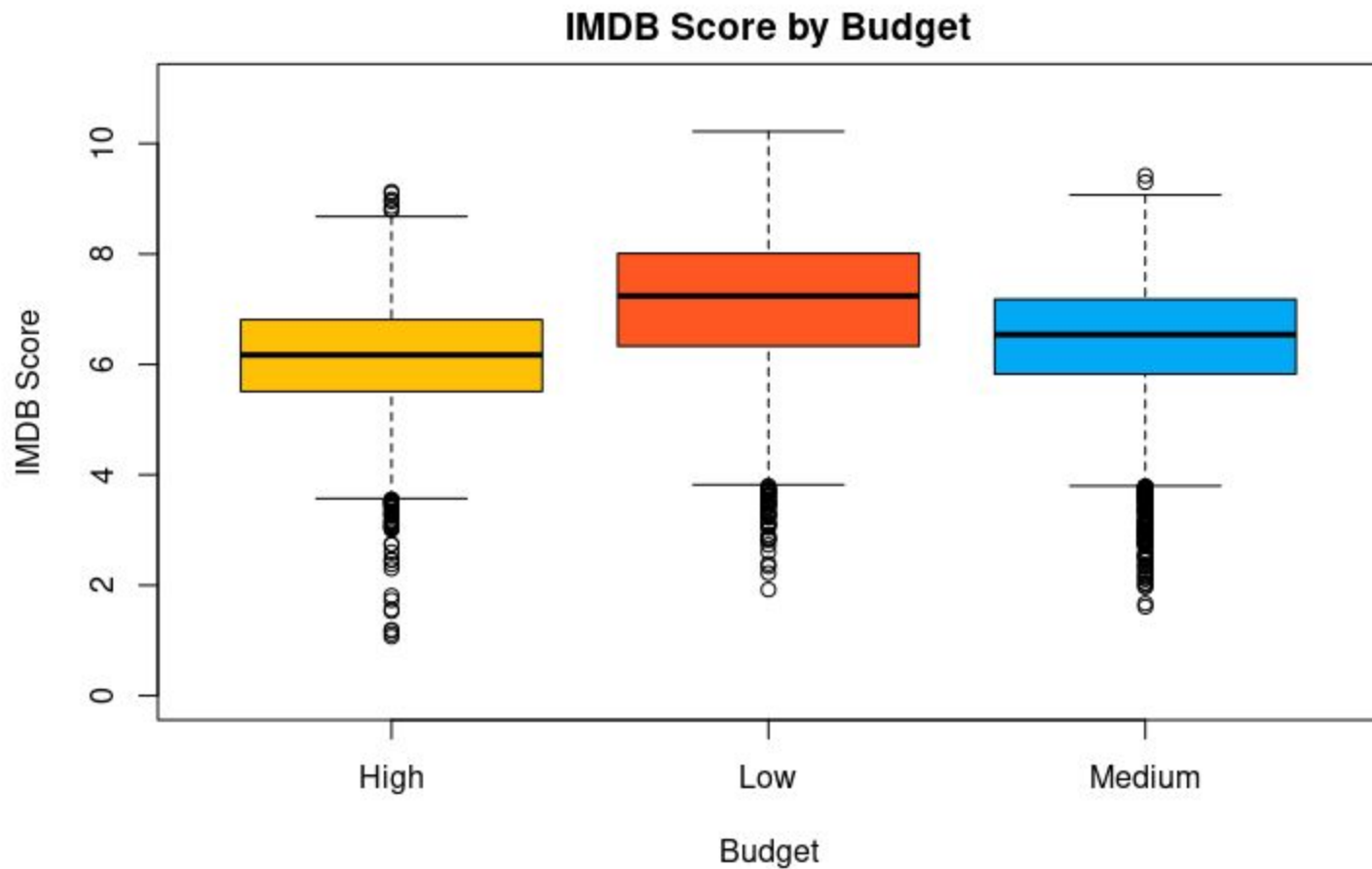
Hypotheses – Genre

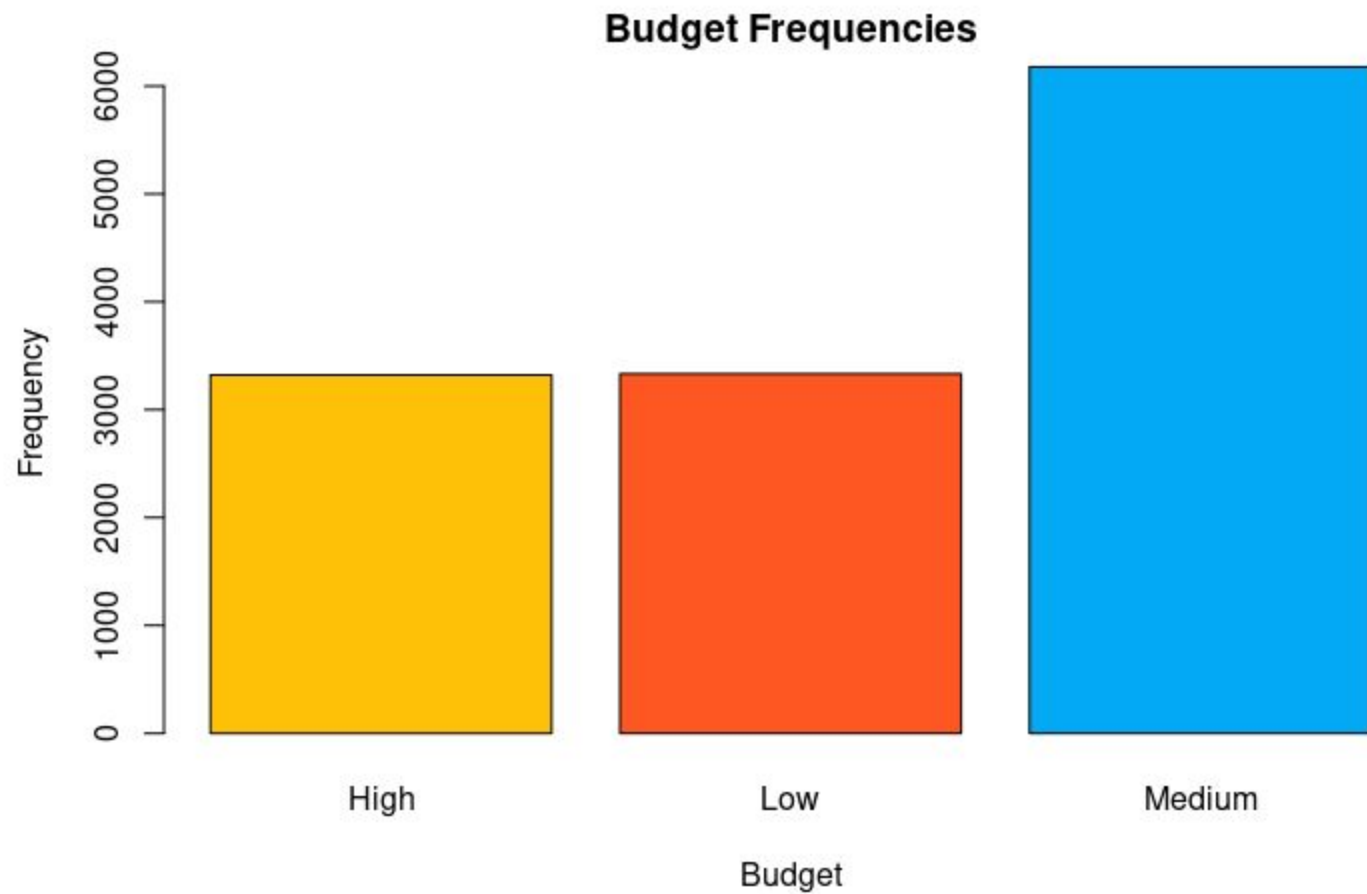
Hypotheses:

- Movies with genre 'History' have higher scores than movies of any other genre
- Movies with genre 'Family' have lower scores than movies of any other genre

Investigating effect of budget vs IMDb score







Findings – Budget

- Significantly more movies with a high budget
- Highest score distribution: Low > Medium > High

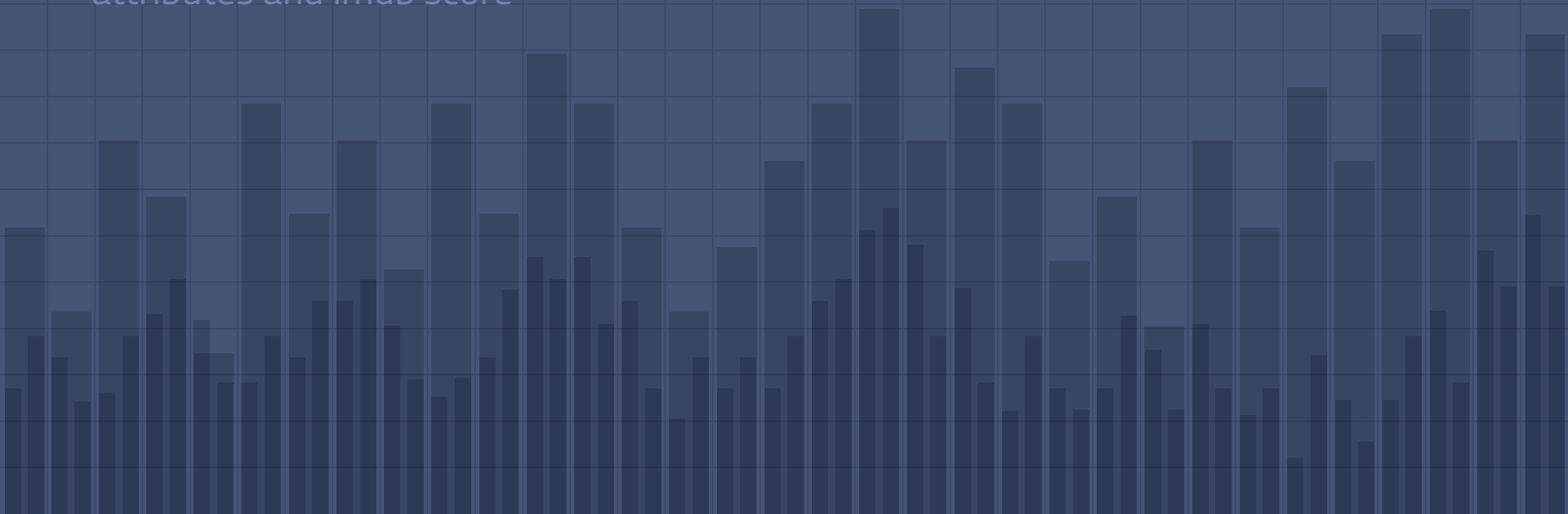
Hypotheses – Genre

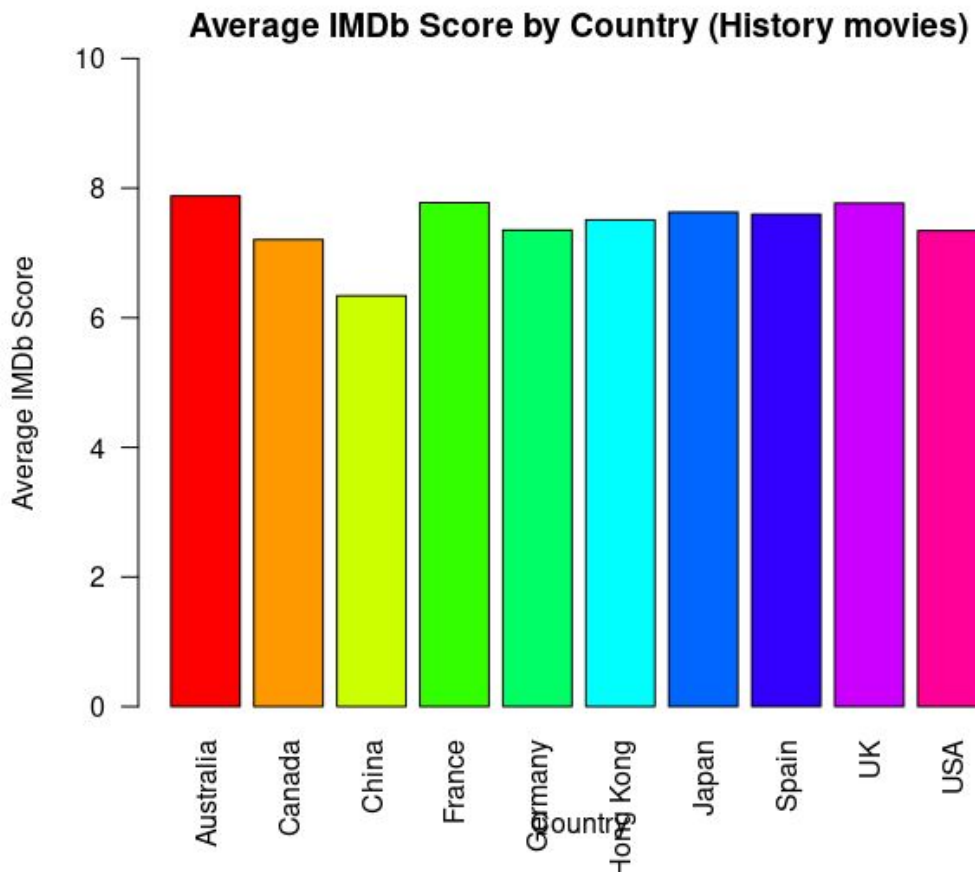
Hypotheses:

- Movies with genre 'History' have higher scores than movies of any other genre
- Movies with genre 'Family' have lower scores than movies of any other genre

Generating hypotheses

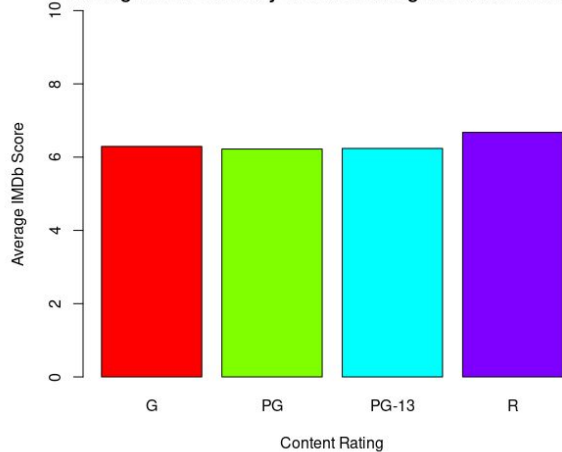
Determining alternative hypotheses that describe a correlation between two attributes and imdb score



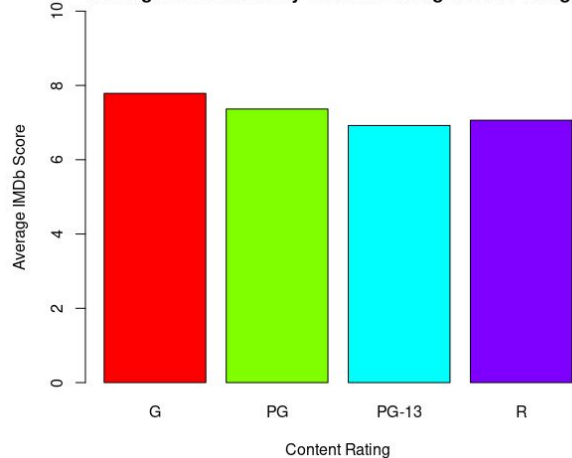


History movies in Canada have lower IMDB scores.

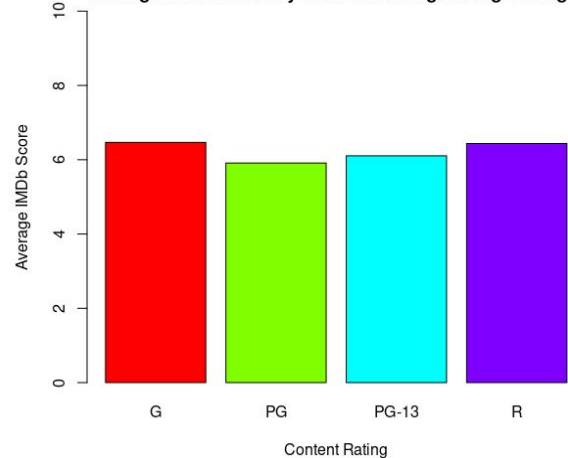
Average IMDb Score by Content Rating for Medium Budget



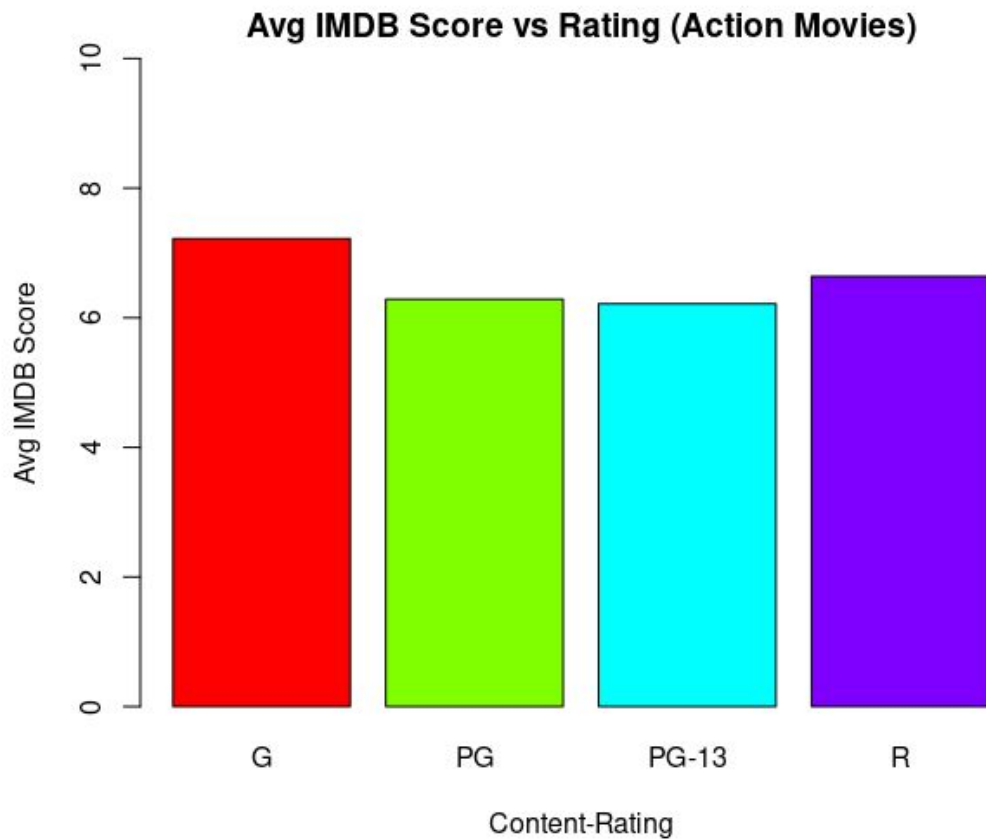
Average IMDb Score by Content Rating for Low Budget



Average IMDb Score by Content Rating for High Budget



Low budget G rated movies have higher IMDB scores



G-rated action movies have higher ratings