Project Title:

Team Members:

1. Kevin Avery
2. Megan Foster
3. Meha Marathe
4. Troy Rippeto

Project Description/Outline:

* Compare Highest Grossing Films with Academy Award Best Picture Films
  + Actor Gender Composition Ratios
  + Bechdel Test
  + Race of Actors
  + Genre
  + Run-time
  + Ratings

Research Questions to Answer:

* Over the course of the last 100 years, what has been the make-up of the Academy Award Best Winner Film and the Top-Grossing Films for the year?
  + Does one of the genders dominate the composition of main actors in a film? Does this change? And when?
  + Are there any trends in pass rates of the Bechdel test over the years?
  + How diverse are the main actors in a film from a racial perspective? And does this change over time?
  + Are there any trends in popular genres for being a top-grosser or best picture winner?
  + Does the length of the movie impact its appearance as a top-grosser or best picture winner?
  + How are the best picture winners and top-grossers rated by popular users on sites such as “Rotten Tomatoes” or “IMDB”?

Datasets to be Used:

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| **Data Needed** | **Source** |
| Academy Award “Best Picture” Films | <https://datahub.io/rufuspollock/oscars-nominees-and-winners#resource-oscars-nominees-and-winners_zip> |
| Top Grossing Film for the Year | TMDB – the movie database |
| Film Information Including top actors, Genre, Ratings, run-time | OMDB |
| Bechdel Test past or fail rates for films | <https://bechdeltest.com/api/v1/doc#getMoviesByTitle> |
| Race of Actors | <https://www.kaggle.com/fmejia21/demographics-of-academy-awards-oscars-winners> |

Breakdown of Tasks:

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| --- | --- |
| Task | Responsible Party |
| Bechdel Test | Megan |
| Academy Award Winners Best Pictures | Troy |
| Top Grossing Films for Each Year | Kevin |
| Race of Actors | Meha |
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