Average Movie Duration by Movie Ratings (PG, PG-13, TV-14A, R)

It’s evident from the pool of average movie duration by movie ratings that “PG-13” (Rated PG-13: Parents strongly cautioned – Some material may be inappropriate for children under 13) has the highest average movie duration with pie share of 18% and the least is “PG” (Rated PG: Parental guidance suggested – Some material may not be suitable for children) with about 14.8%.

Movie age Ratings by the Top 4 Genres

We looked at the Movie Ratings by the Top 4 Genres which included Documentary, Drama, Action/Adventure and Comedy. Documentary and Action movies show more prominence among age rating 18 category. This also shows that the age rating 18 have the highest number of movies across the top 4 types, which may have resulted from the demand from the age rating for commercially released movie since 1942.

Conclusion & Summary:

* From the analysis, it apparent that Movie production rapidly increased overtime.
* Most of the movies are 90 to 119 minutes long with average movie duration tapering at 98 minutes.
* The most produced movies genres are Comedy and Drama.
* We performed an Anova test. It is discovered that an Anova Test between the duration of every genre suggests that there is a significance difference, however between 15 genres we would expect it to succeed, further analysis would be needed to verify the hypothesis.
* Fun Fact! It would take you 534,090 minutes to watch all the movies included in our database (that’s a full year!).

Limitations & Challenges

* Sample Size (Research questions are answered only based on Dataset)
* Sample Profile limited to Netflix popular movies only and Dataset was sources from Kaggle Data Science Company.
* Season oriented movies were dropped because of their tendencies to skew movie duration and may not be consistent with our analysis.
* Categories of movies are sorted by first given genre and ratings are sorted by Canadian Metrics.
* The Datasets do not include all the movies commercially produced between 1942 to 2022.

Finally, I would like to thank every member of team – Natasha; Jane; Ben; & Kate for their contribution.

Thank you for listening