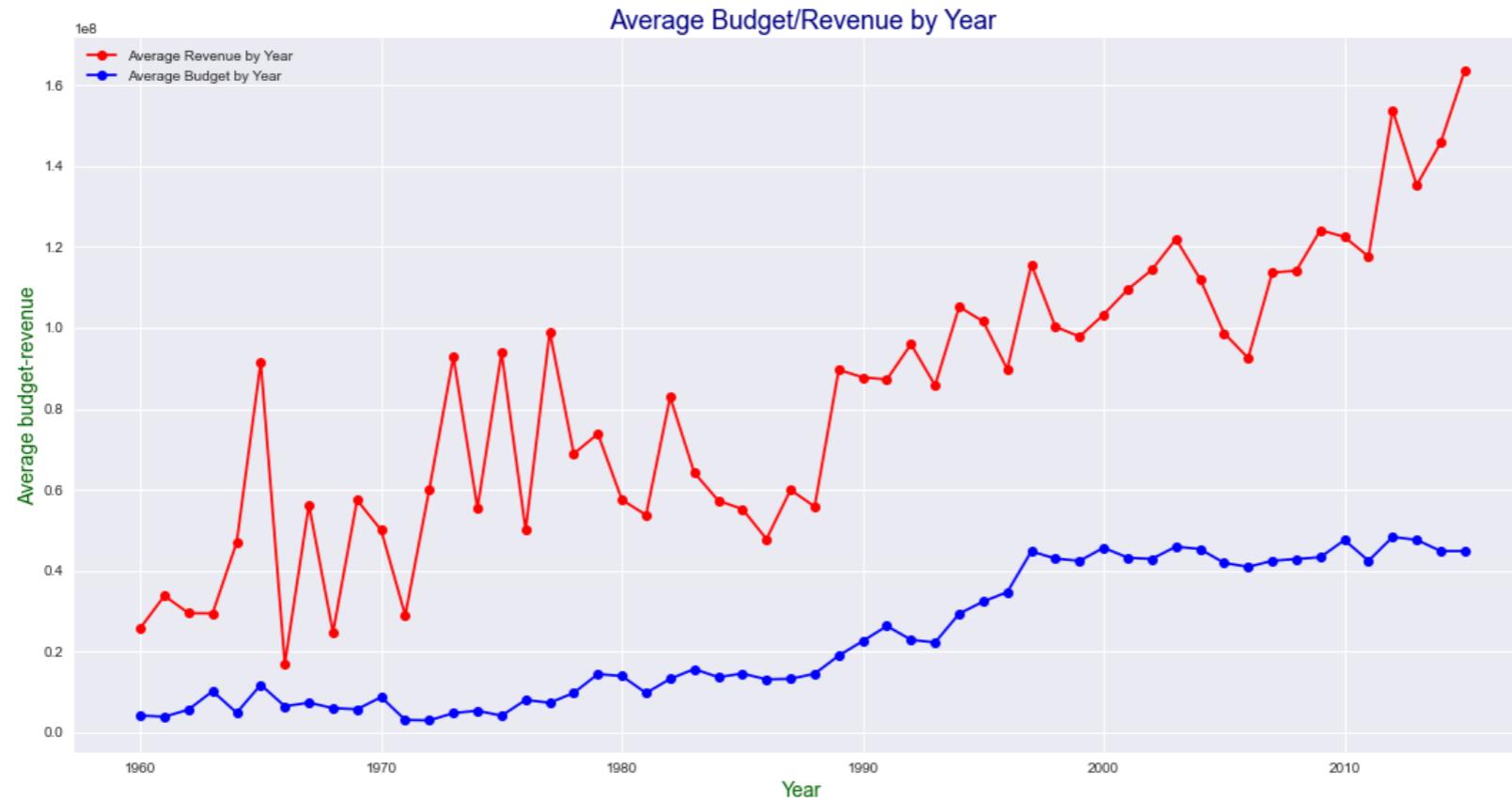


# **INVESTIGATE A DATASET**

**TMDB MOVIE DATA**



# Budget/Revenue over Years



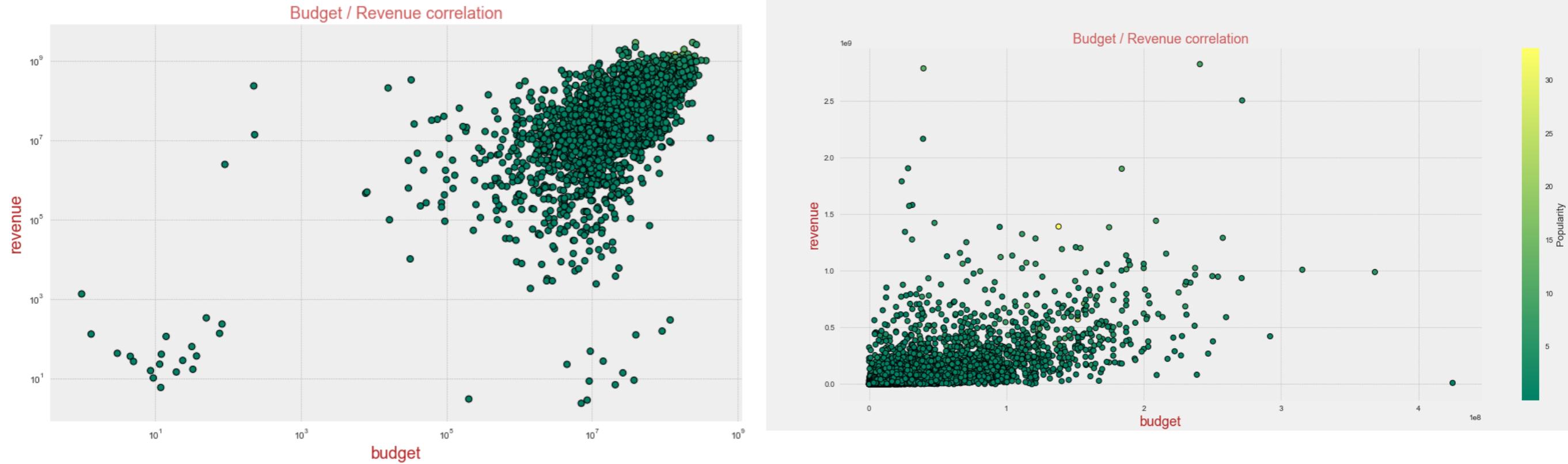
Revenue is increasing over the years, yet with a lot of ups and downs and the pattern of increasing seems unstable, however Revenue reached an all-time high by 2015.

Interesting that Revenue on the graph around the year 1965 is compared to the Revenue in the 19's

Budget is in continuous Increase over the time. Budget increase over the years seems a lot more stable than Revenue increase

Revenue earnings is much more than Budget spending

# Budget/Revenue



Budget and Revenue have a positive correlation. However, correlation is not very strong, which indicates that high budget spending doesn't necessarily mean high revenue earnings

Logarithmic scale of plot (on the left) illustrates the correlation more.

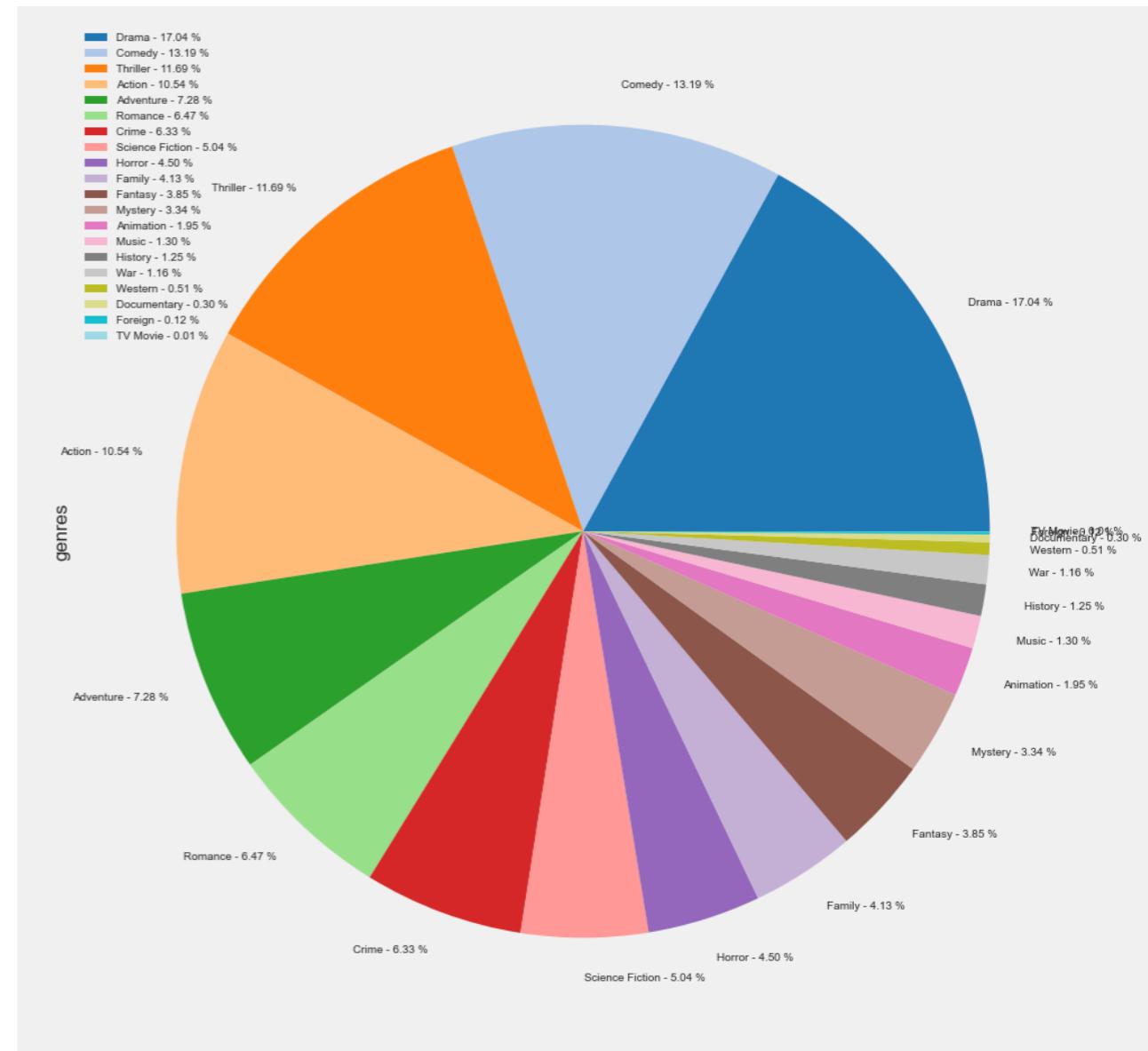
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Avatar movie has the highest revenue.

The Warrior's Way movie has the highest budget, yet a very small revenue compared to budget.

# Genres

## Genres Distribution



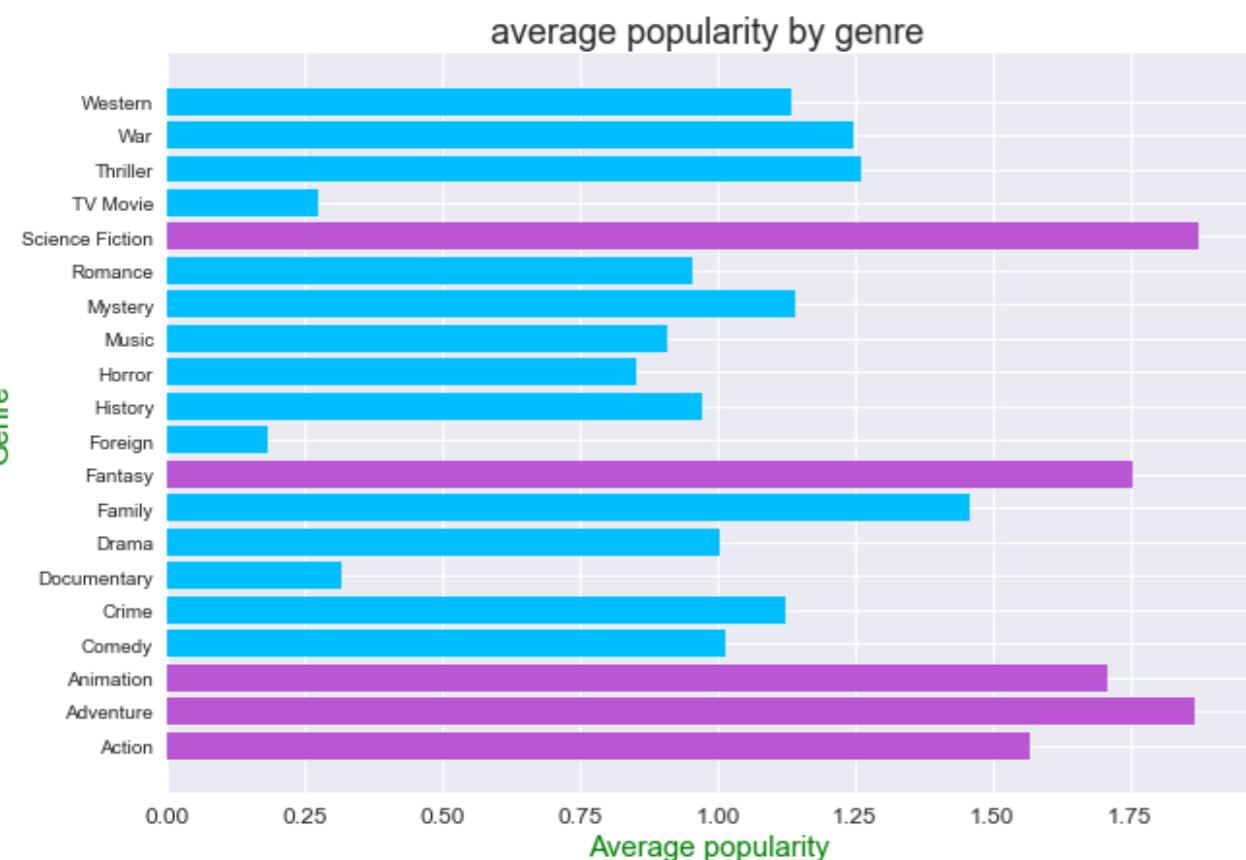
There is **20 Genres** in dataset

Drama is the most common genre, then comes Comedy, Thriller and then Action.

TV movie the least common genre, then comes Foreign and Documentary.

# Genres

## Genres with Popularity / Revenue



Science Fiction and Adventure are the most popular genres.

**Drama** is the most common genre, however it's not as popular (average) among viewers and generates average revenue.

**Foreign** genre is the least popular and least in **revenue** generation.

**Animation** and **Adventure** generate **highest revenue** on average.

Popular genres generate high revenues, this indicates strong positive correlation between **Popularity** and **Revenue** on **Genre** basis.

# Cast with Popularity Revenue

took first 100 cast on value counts with min count of 20.

took highest 30 cast by popularity and highest 30 by revenue on specific plot study (general histogram on 100).

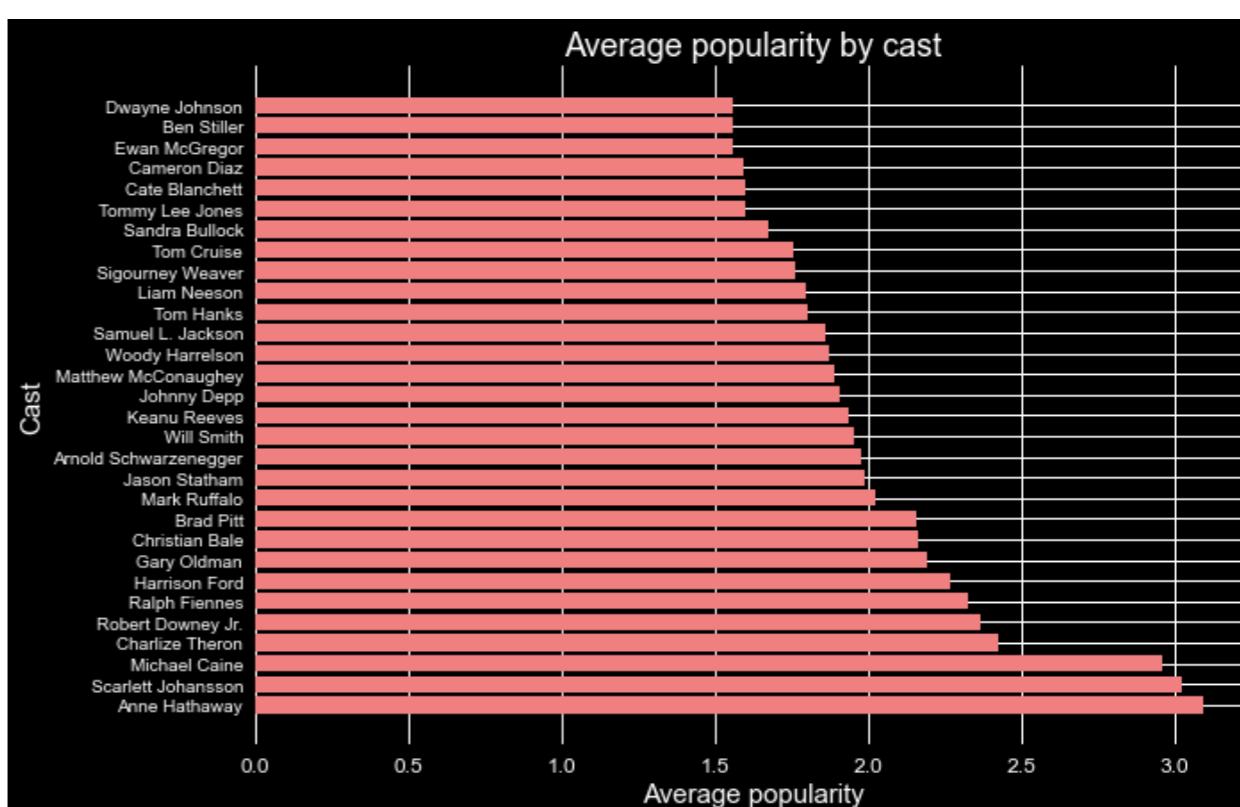
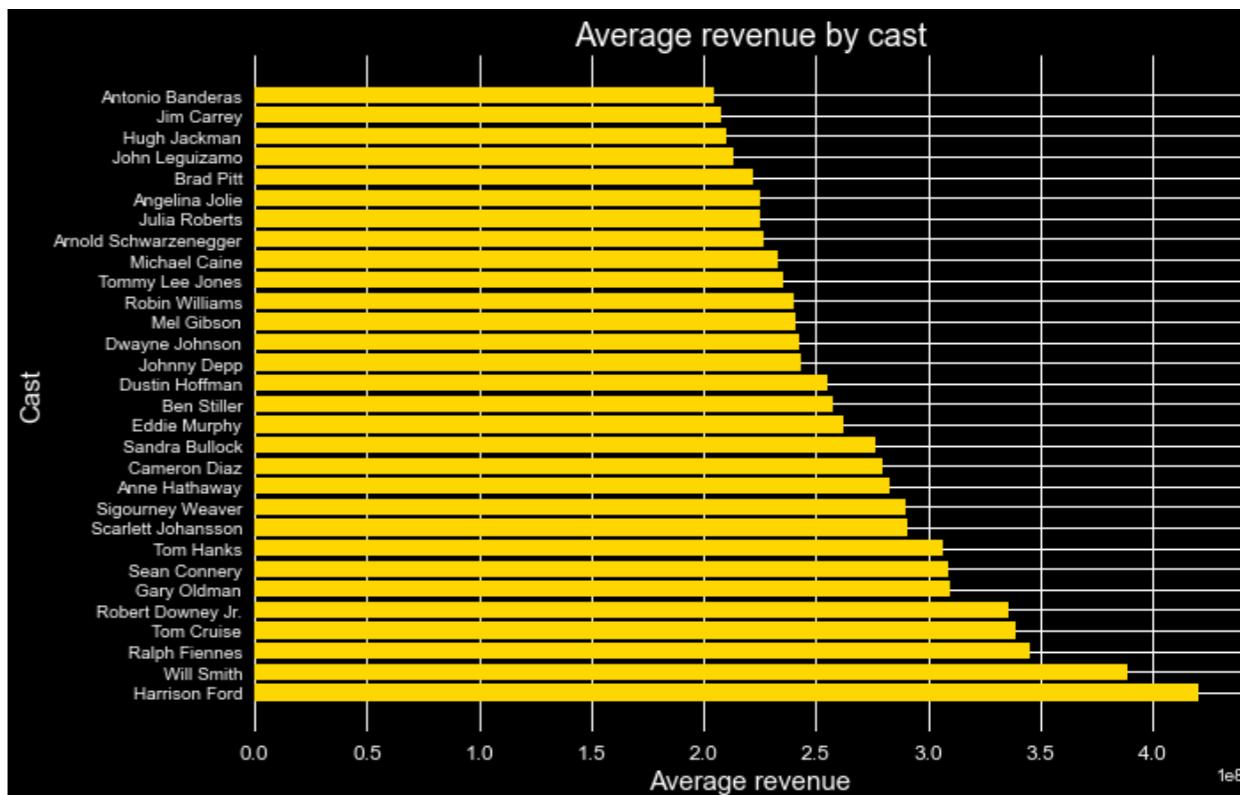
Anne Hathaway is by far the most popular, then comes Scarlett Johansson and Michael Caine.

Harrison Ford generated highest revenue by far, then comes Will Smith.

Not all cast highest in popularity, are highest in revenue generation, and vice versa. (yet likely > 50%):

- (11 out of 30 are high in popularity and not revenue)
- (11 out of 30 are high in revenue and not popularity)

**Most popular cast doesn't indicate that it will generate highest revenue and vice versa.**



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# Runtime - Director

took highest 20 directors by value counts in data

Average runtime of movie is **106 min.**

Robert Rodriguez makes shortest runtime of around 95 min.

Oliver Stone makes longest runtime of around 141 min.