

Data set chosen: IMDb movies dataset

Questions to be discussed:

- Popularity of movies according to genres
- Best director and movie(as per rating and popularity)
- Highest profit in movie based on genre
- Does more budget leads to more revenue (correlation)
- Year of highest profit and distribution among genres
- Number of movies per genre
- Total revenue per genres

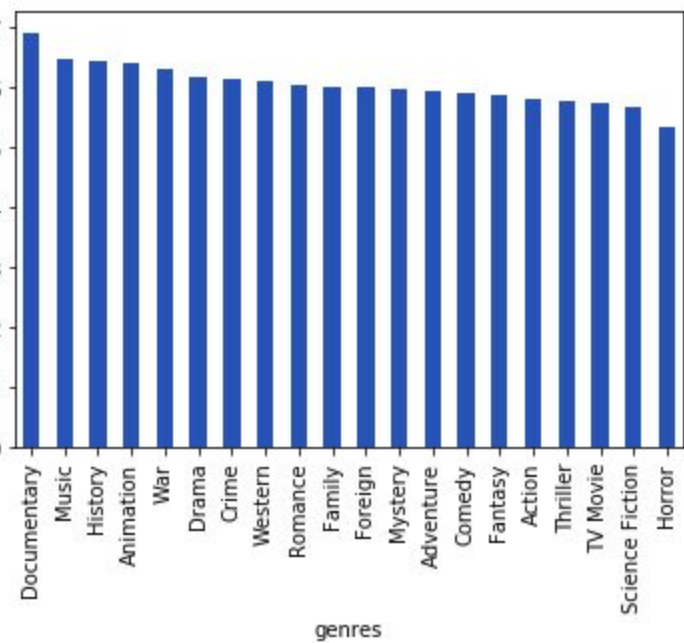
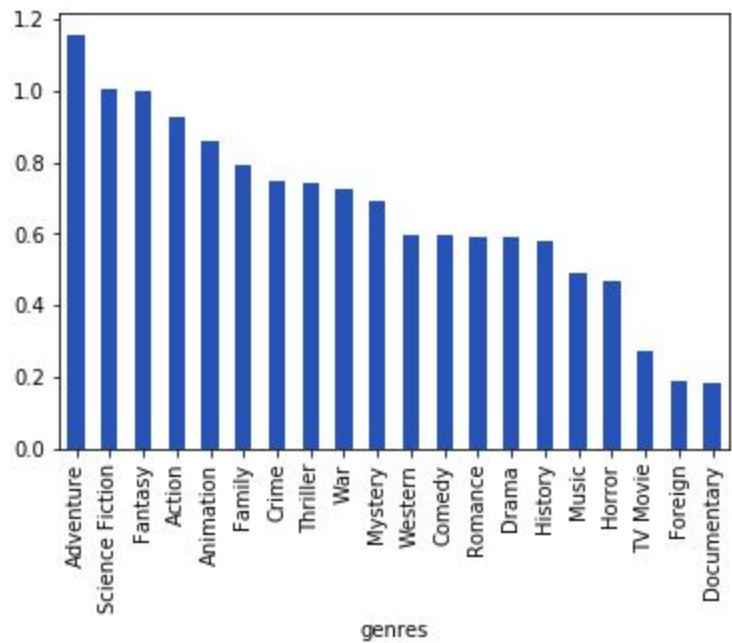
How I investigated dataset for questions/ helping sources;

- I used groupby through out to see the various criterias like director or movies in the dataset.
- For checking genres, I had to extract the different genres name using this code: #code taken from <https://stackoverflow.com/questions/53860398/pandas-dataframe-how-do-i-split-one-row-into-multiple-rows-by-multi-value-colum?noredirect=1&lq=1>
- For calculating profit per genres, a new column of profit was added.

Data cleaning: Few duplicates and null values were removed

Results:

- Popularity of movies according to genres

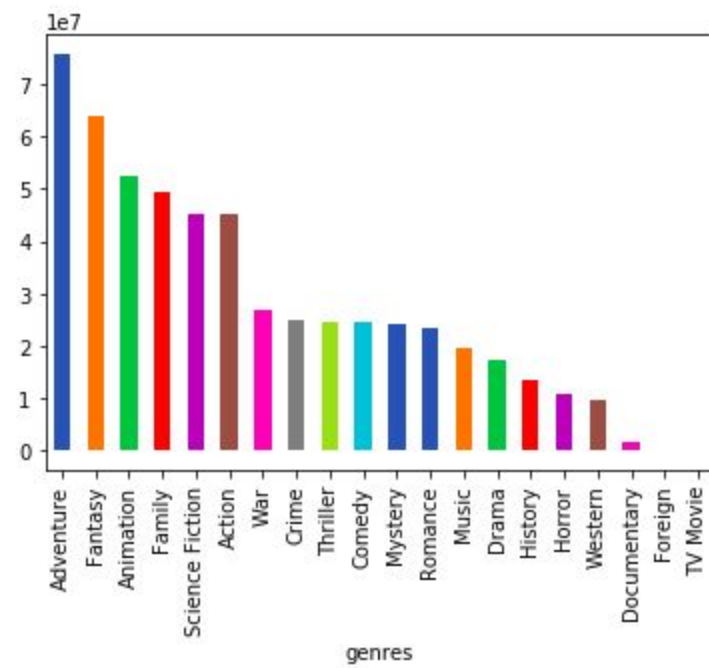


(1)

(2)

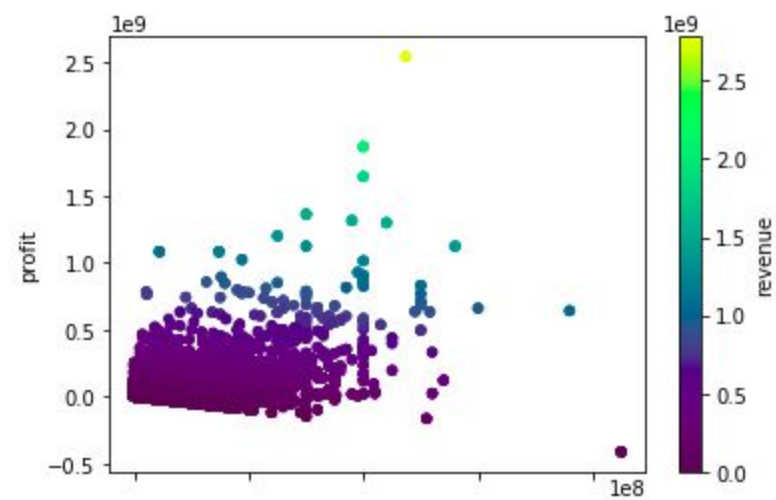
As it can be seen from above histogram, (1) : the movie with highest popularity belong to genres = Adventure, then followed by Science fiction, Fantasy, Action and Animation. Average votings for all movies are almost same, with no major difference as can be seen from second histogram above.

- **Best director and movie(as per rating and popularity)**  
The best director is Colin Trevorrow and Mark Cousins, while best movies are #Jurassic world and The Story of Film: An Odyssey: by popularity and Average vote.
- **Highest profit in movie based on genre**



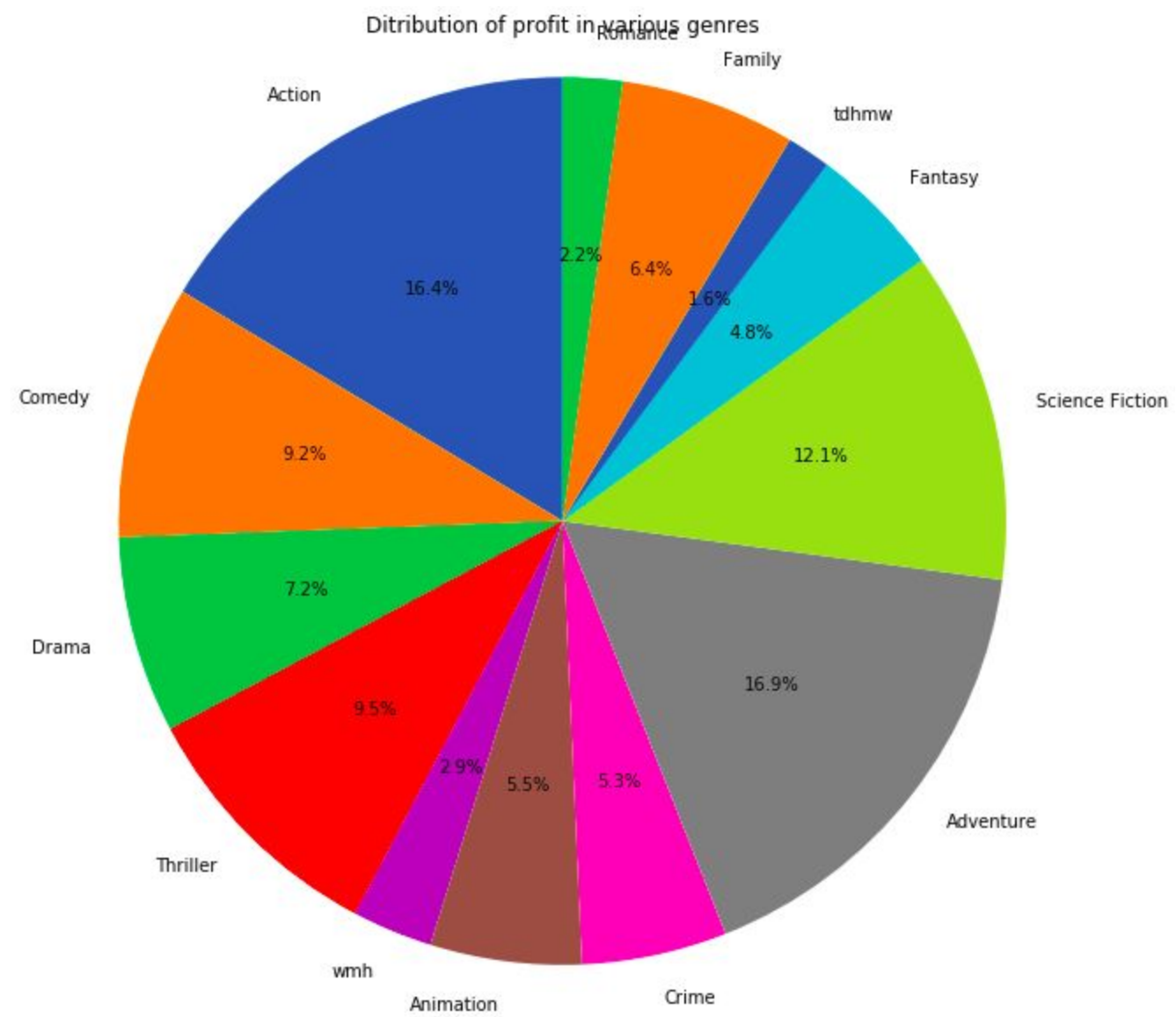
# From above, it can be concluded that the average profit is highest for adventurous movie and least for TV movie

- Does more budget leads to more revenue (correlation)



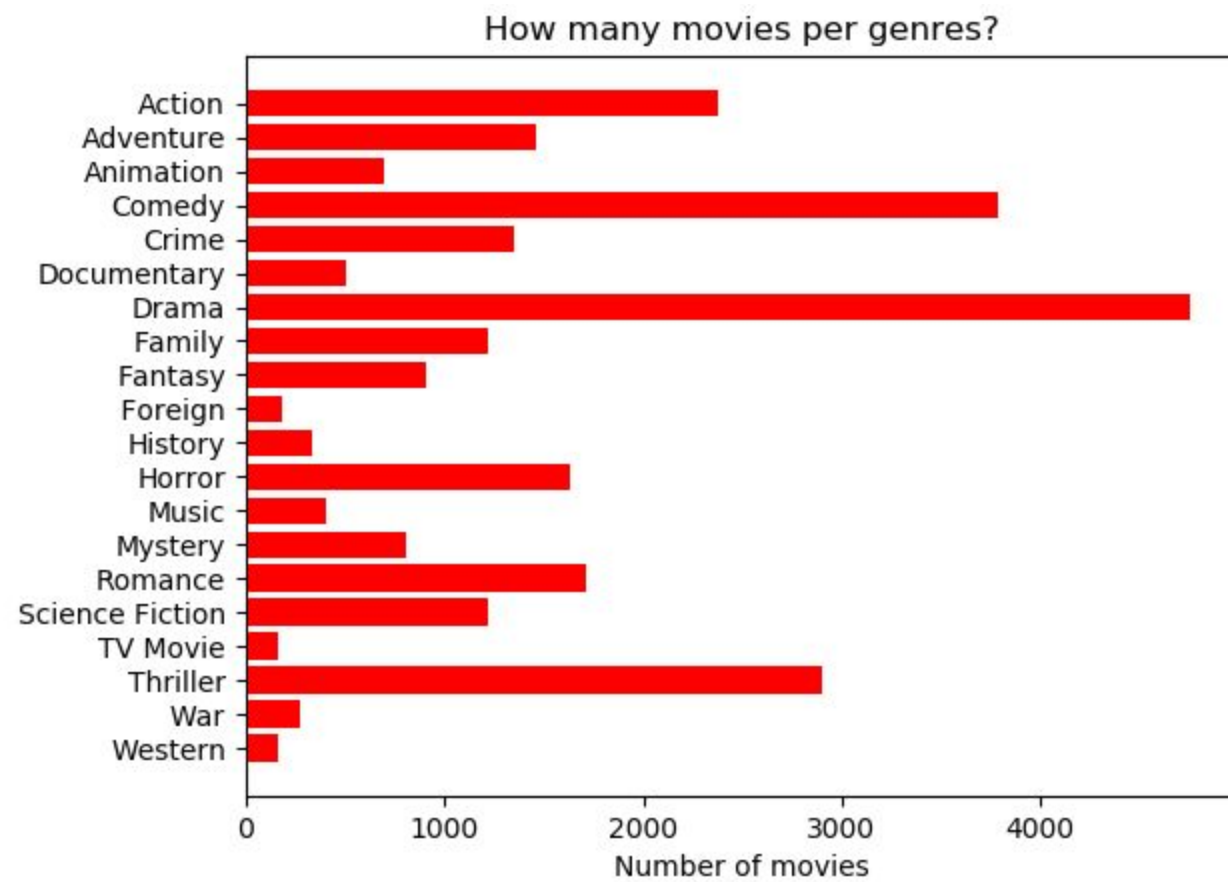
# From above, it can be concluded that usually higher budget movies make more profit, but there are few exceptions too.

- Year of highest profit and distribution among genres



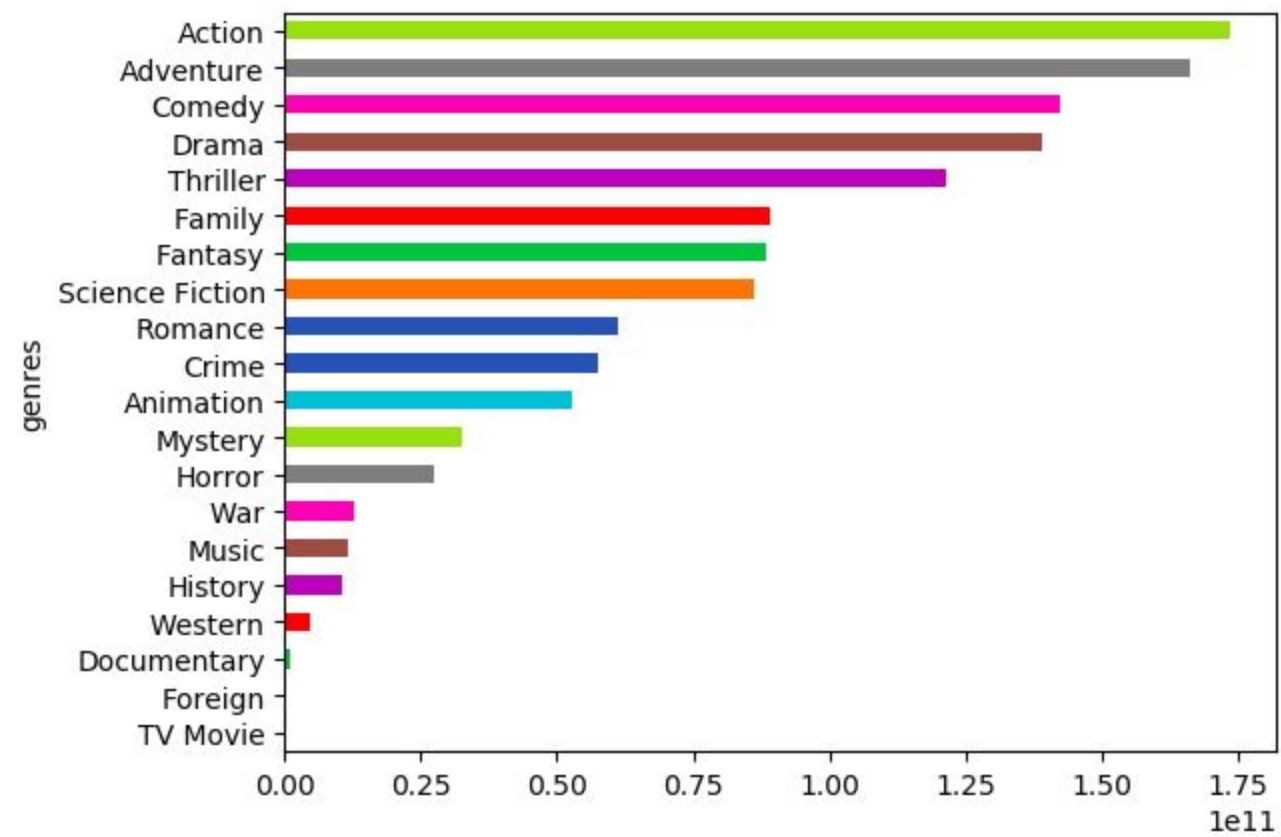
#It can be seen that the highest contribution of profit to total profit is by adventure movies, 16.9%

- **Number of movies per genre**



#Here we can see that number of movies are highest in Drama genre followed by comedy and then thriller.

- **Total revenue per genres**



Action and adventure movies have highest revenue.

**SUMMARY:**

From above studies the conclusion can be drwan as:

Most popular movies are adventurous followed by science/fiction.

Best director = Colin treverrow

Movies = Juraasic world

Highest profitable genre = adventure

More budget = more profit

2015 year had highest revenue, and adventure movies contributed to 16.9% of total

Number of movies is highest in Drama genre

Action movies has highest revenue