

## DAV Assignment – 3

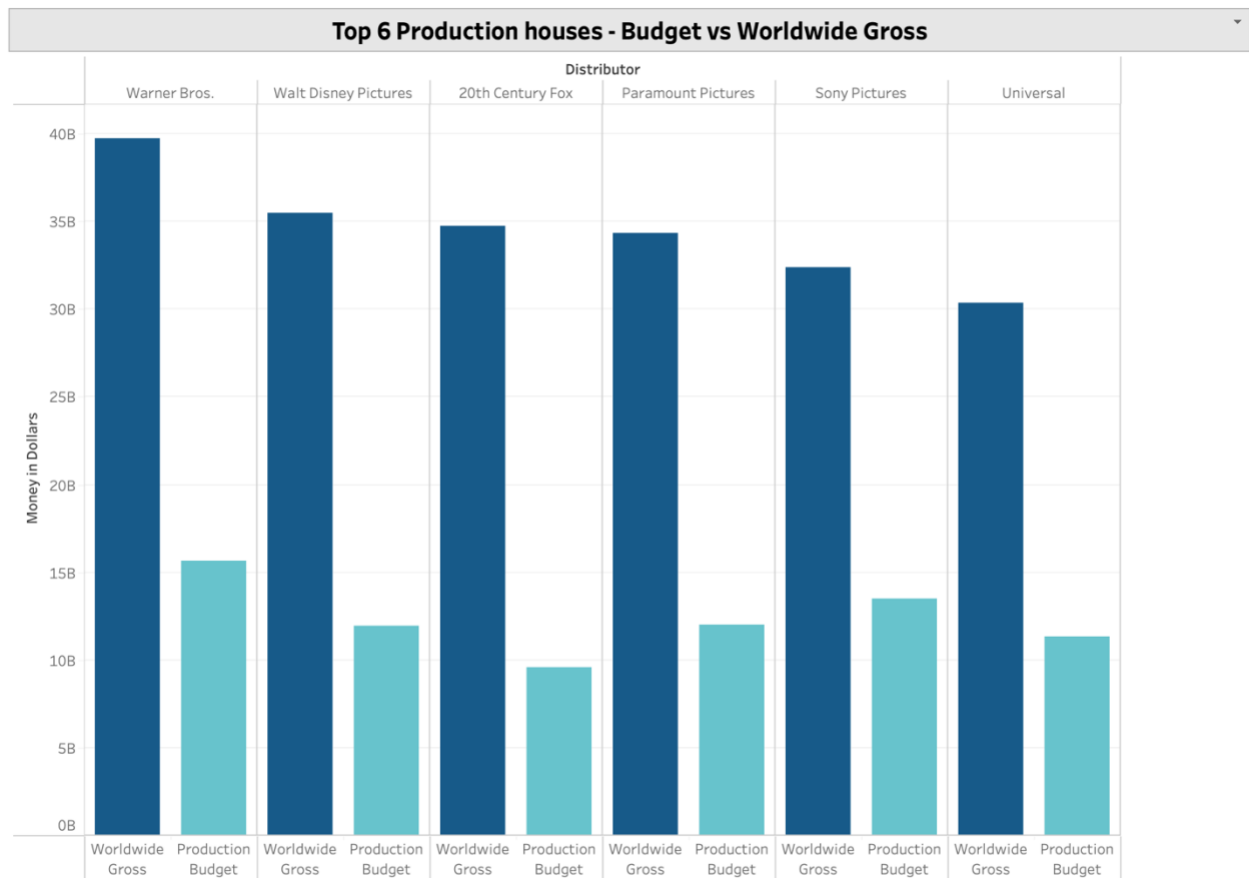
Dataset – MOVIES

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The dataset has the information about films from 1929 – 2010. Genre, budget, worldwide gross, category, ratings, production houses are mentioned. Here, we have visualized below plots based on the ideas made from the dataset.

### Visual 1:

In the below visual, we have taken 6 huge distributors in the world (Warner Bros., Walt Disney Pictures, 20<sup>th</sup> Century Fox, Paramount Pictures, Sony Pictures, Universal Studios) and made down a comparison graph for the sum of worldwide gross and sum of budget spent from the respective distributors.



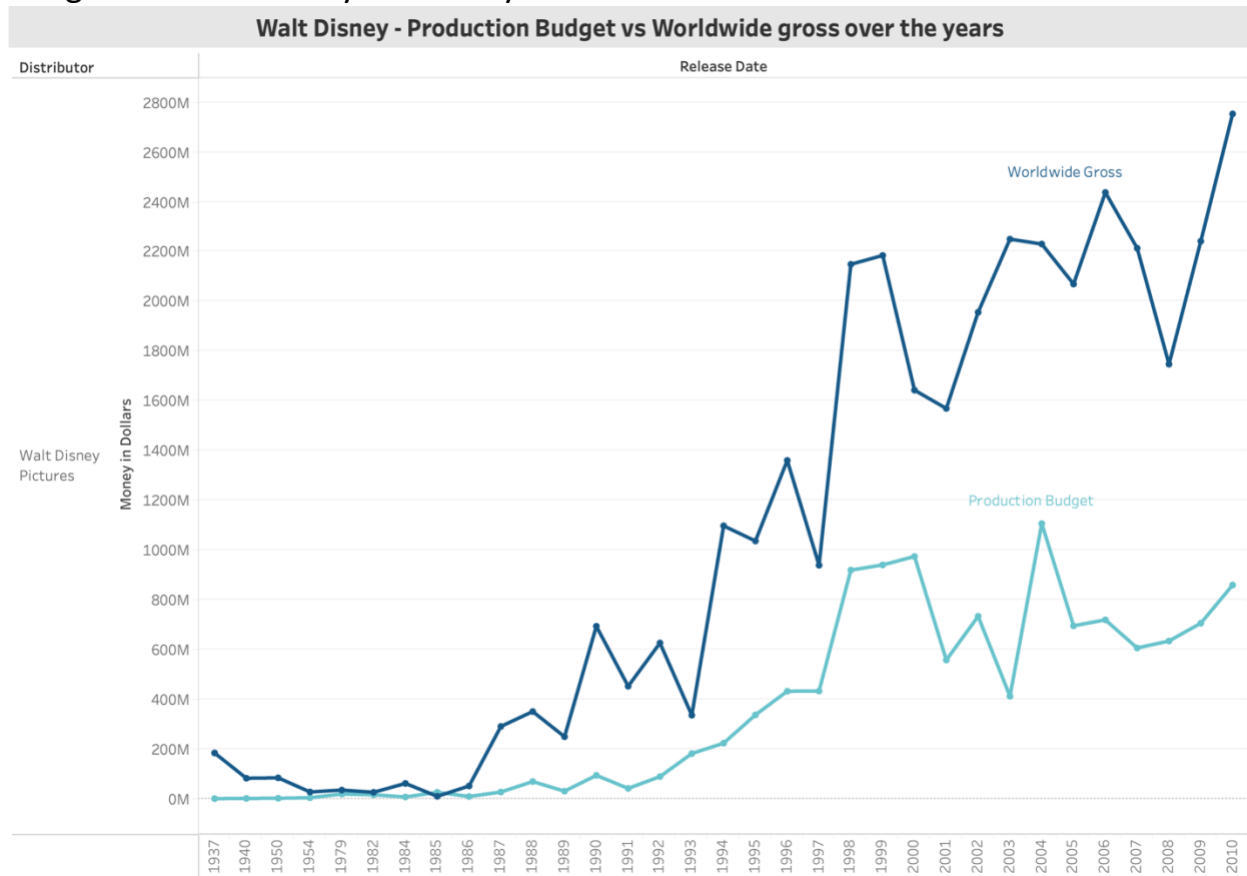
We can see that Warner Bros. has made the highest gross, close to \$40B compared to all the other distributors and spent over \$15B over the years.

Next highest budget comes for Sony Pictures who have budgeted \$13B over the years. But their worldwide gross stays few billions after Walt Disney and 20<sup>th</sup>

Century Fox. We will further see the top two highest grossing distributors analysis in the next visuals.

## Visual 2:

Here, we visualize the comparison between the Worldwide gross and Production Budget for Walt Disney over the years.

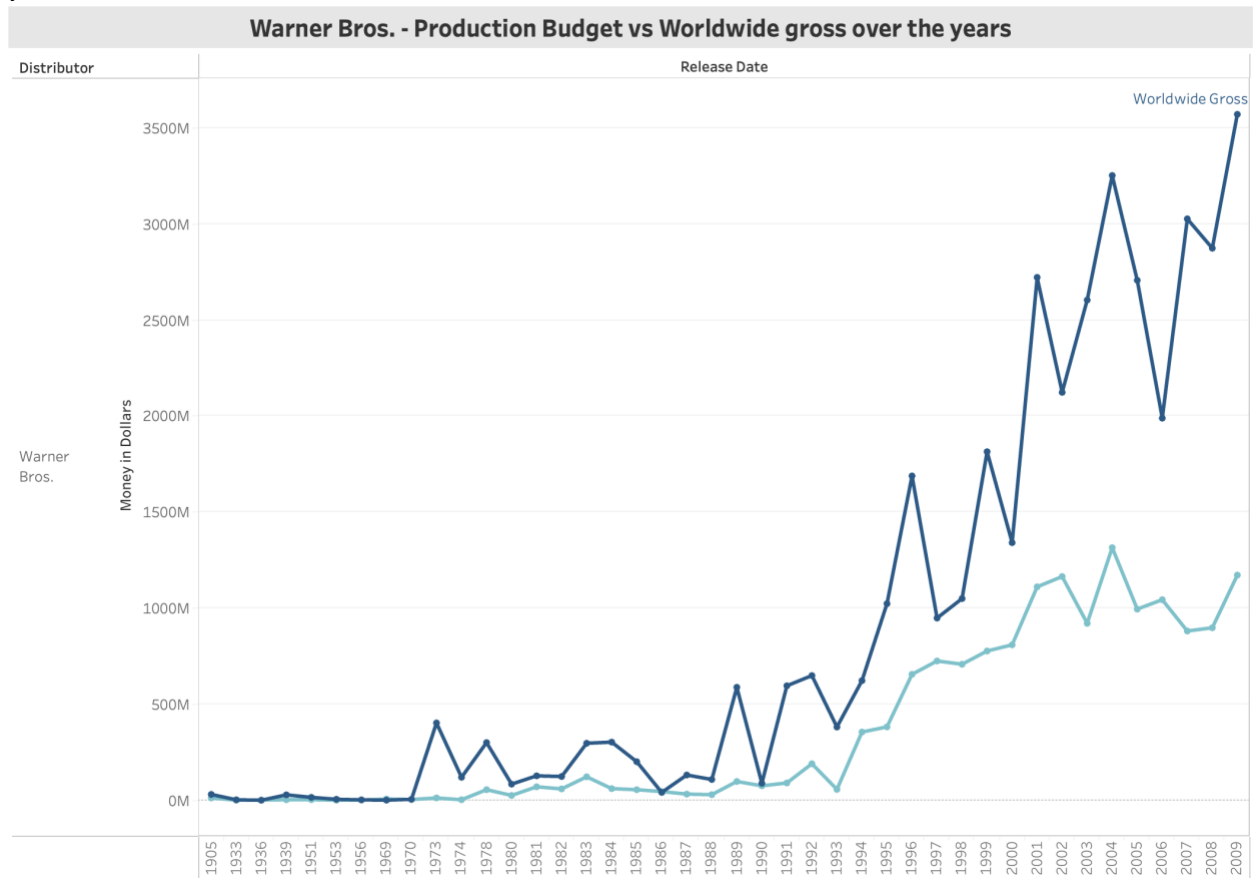


Disney had a good gross margin during their start and had average gross until 1986. From 1987 Disney's films have had a huge margin jumping from around \$300M to over \$1000M within a year. There was a constant trend until 1999 up to over \$2100M. But has a slight dip from 2000. But had great worldwide gross again until 2007 crossing \$2400M. But there was a decreasing trend for two years falling their gross to less than \$1500M for two years. They have not crossed their budget above \$1100M and the highest budget they placed was in the year 2004. It showed them equally good worldwide gross.

In the year 2009, Disney has acquired MARVEL Studios. And since then, they had great worldwide gross up to \$2800M.

### Visual 3:

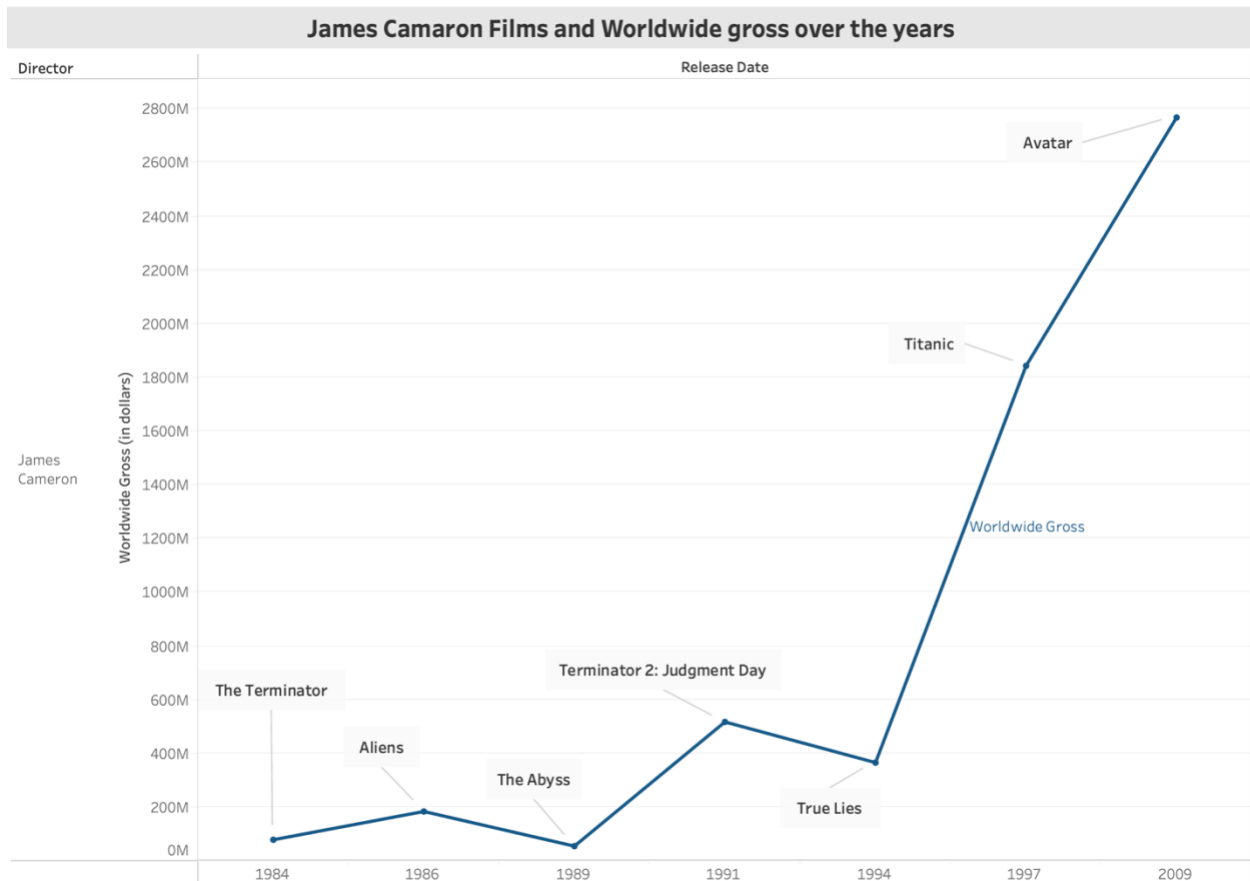
Here, we visualize the comparison between the Worldwide gross and Production Budget for Warner Bros. which is the highest ever profited distributors over the years.



Warner Bros. had a on par break even till the year 1970. And had an increasing worldwide gross. In the years 1996 and 1990, the budget to worldwide gross had break even but profits were at stake. From 1991, till 2010, Warner Bros. had great worldwide gross, and their highest budget was in 2005 around \$1300M and the films made equally well during that year making over \$3200M that year. But has seen a sudden dip up to 2006. But gained a trending gross since then again.

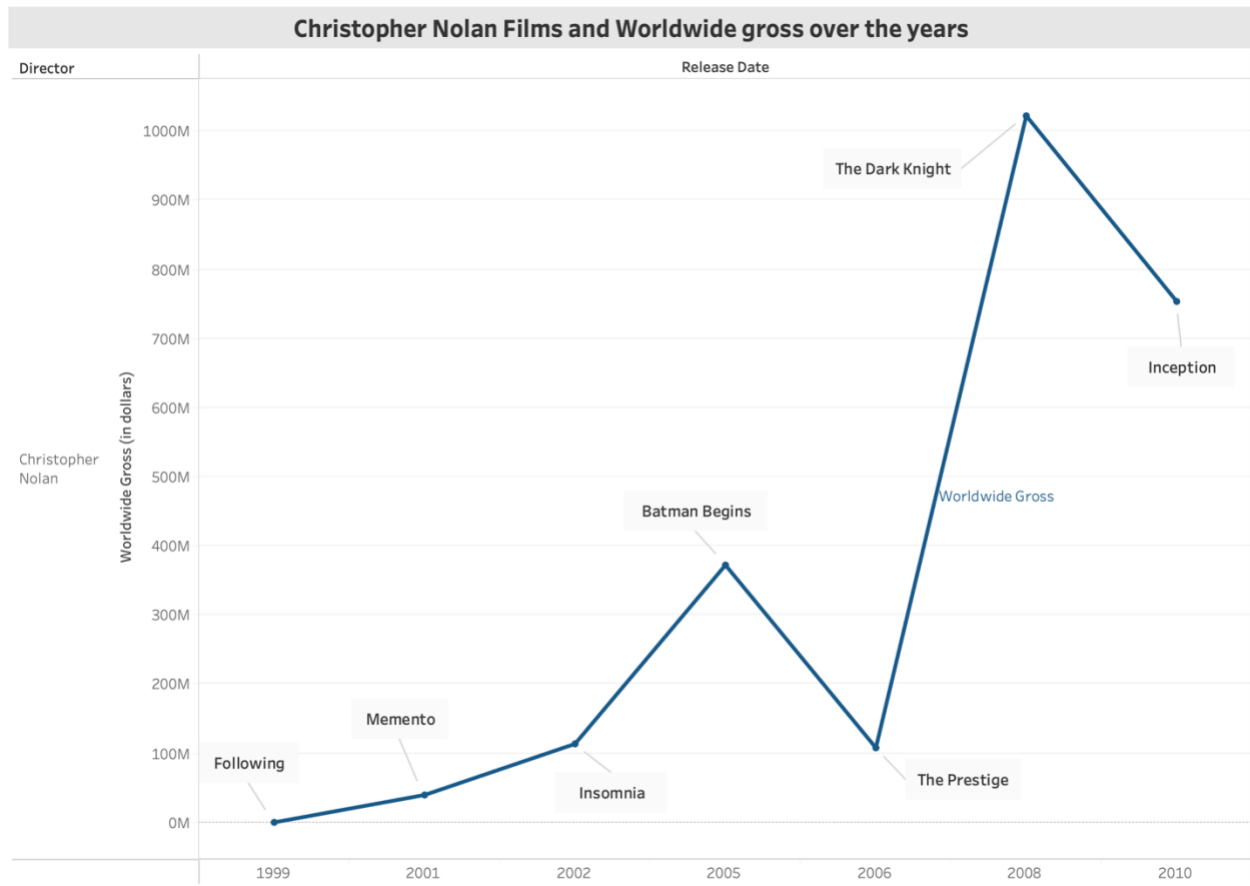
#### Visual 4:

The below visual shows the worldwide gross of James Cameron's films over the years. James Cameron is one of the most popular names in Hollywood, and one of the most successful filmmakers of all time. While everyone predicted Titanic would be a box office bomb, it went on to become the highest-grossing movie of all time, a record it held for 12 years until it was dethroned but another James Cameron movie, Avatar in the year 2009 grossing over \$2700M. Avatar still stands as the highest-grossing movie worldwide with over \$2800M. His growth over the years since 1984, making only 6 films in quarter a decade and still making him an encyclopedia of films is a great achievement. He is an inspiration to every filmmaker, technician, and actors over the years. Since 2009, for James Cameron has been working on his next film, the sequel of Avatar for 13 years now.



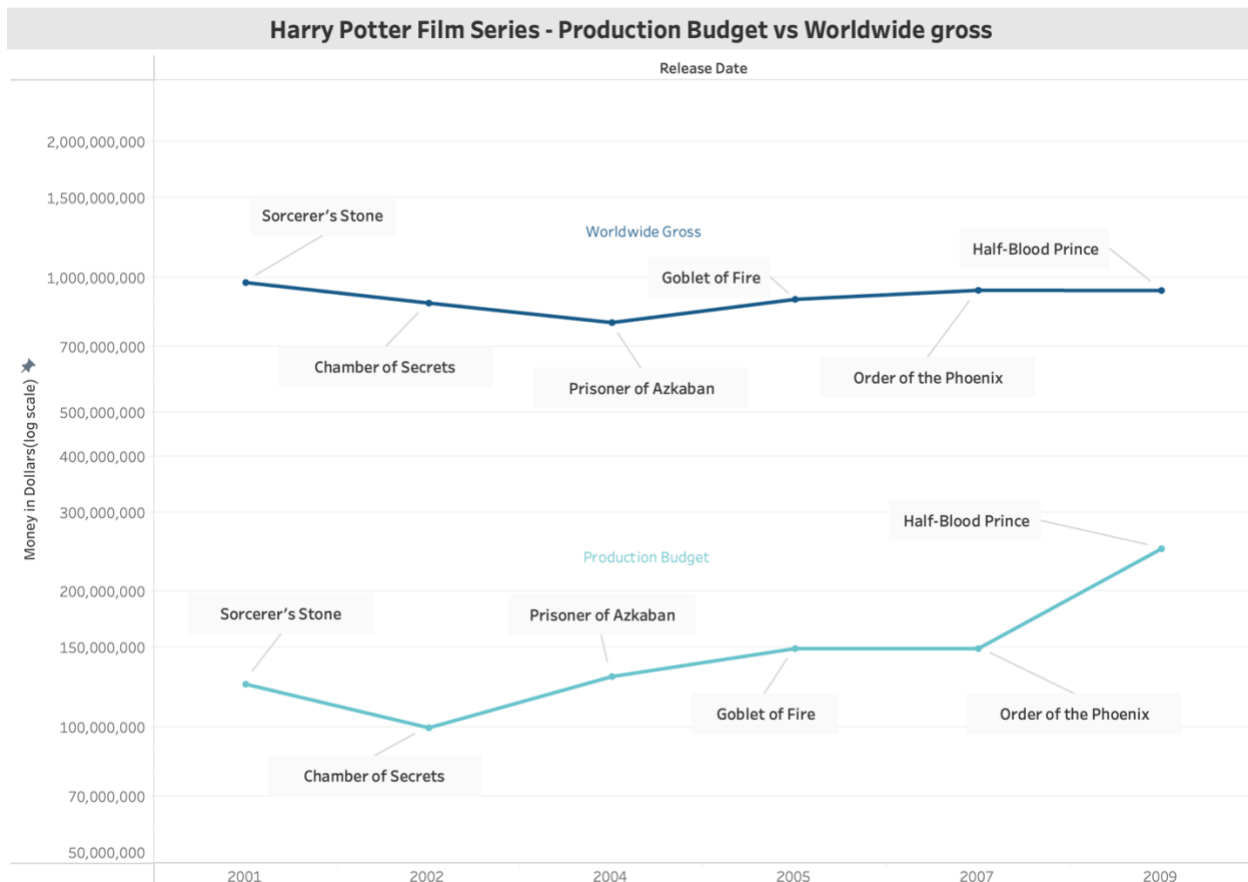
### Visual 5:

This visual shows the worldwide gross of another great director Christopher Nolan and his cinematic masterpieces. His first film was released in 1999. In more than two decades, Nolan has grown to become one of the most well-respected and interesting filmmakers with a clearly defined style. Over the years, his trademark filmmaking has earned him a large and loyal following and his movies always do big business at the box office. Among his films, “The Dark Night” is the highest grossing film with over \$1000M at the box office after an okay performance of his previous film “The Prestige” which made \$100M. His film, “Inception” is still the most praised and complicated screenplay of all time which ran for years in theatres. Though it made lesser numbers compared to “The Dark Night”, it is still the most loved film of Nolan.



## Visual 6:

The below visual shows the Production Budget vs Worldwide gross for Harry Potter film series till 2010.



The first movie Harry Potter and the Sorcerer's Stone has made well at the box-office with almost tenfold earnings (around \$1000M) compared to its low production budget (around \$100M).

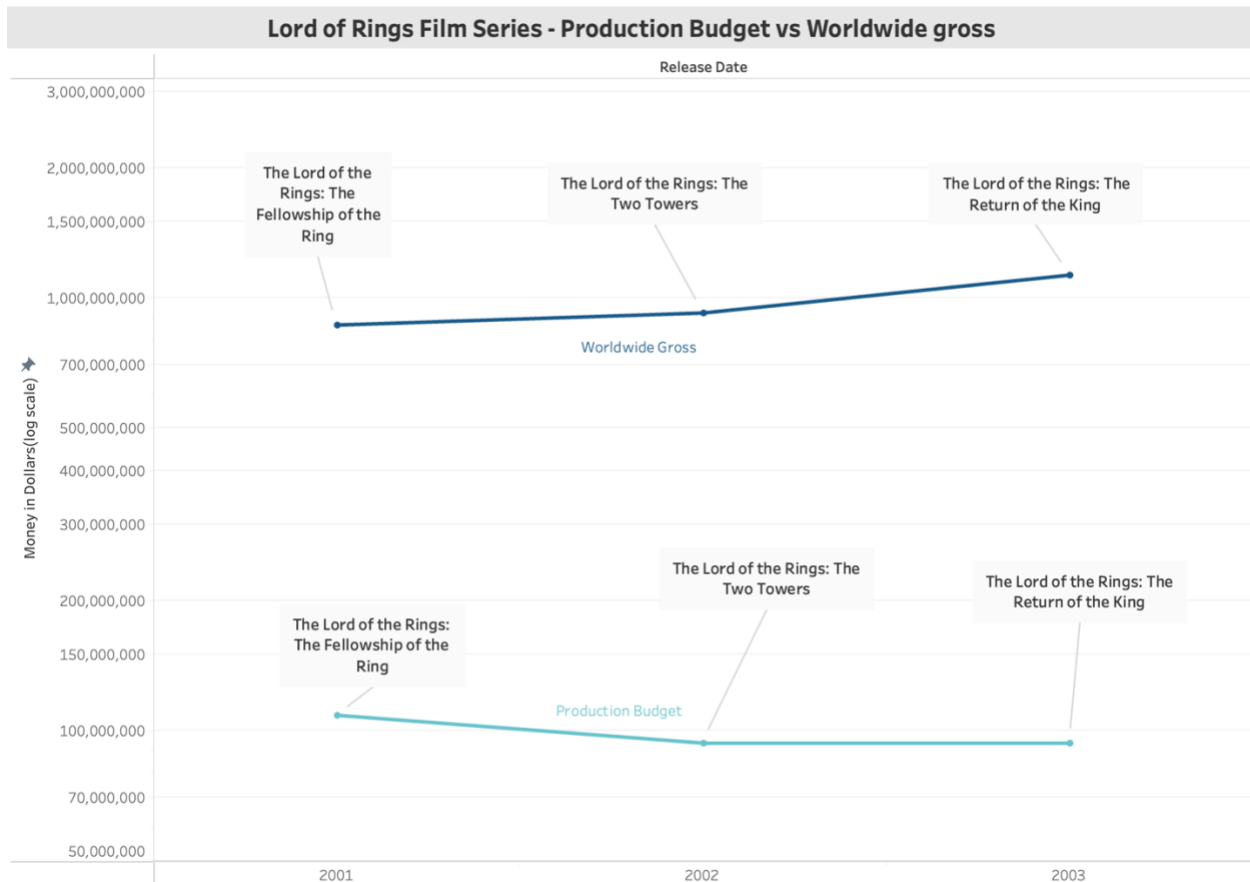
Production budget went on to increase from movie to movie from "Sorcerer's Stone" to "Half-Blood Prince". Except for the second movie in the series which made it a lowest production budget movie. Surprisingly, Harry Potter and the Chamber of Secrets earned less considering how popular the first movie proved to be.

It can be seen from the graph that the third movie, "Harry Potter and the Prisoner of Azkaban" has the lowest earnings among all the parts. For parts released next the gross relatively increased with increase in their production budgets. However, the record which Sorcerer's Stone made stayed the same despite the movie series'

popularity peaking and weaning across all the sequels. Harry Potter series are very well acclaimed from books to films. J.K Rowling made this world loved by everyone.

### Visual 7:

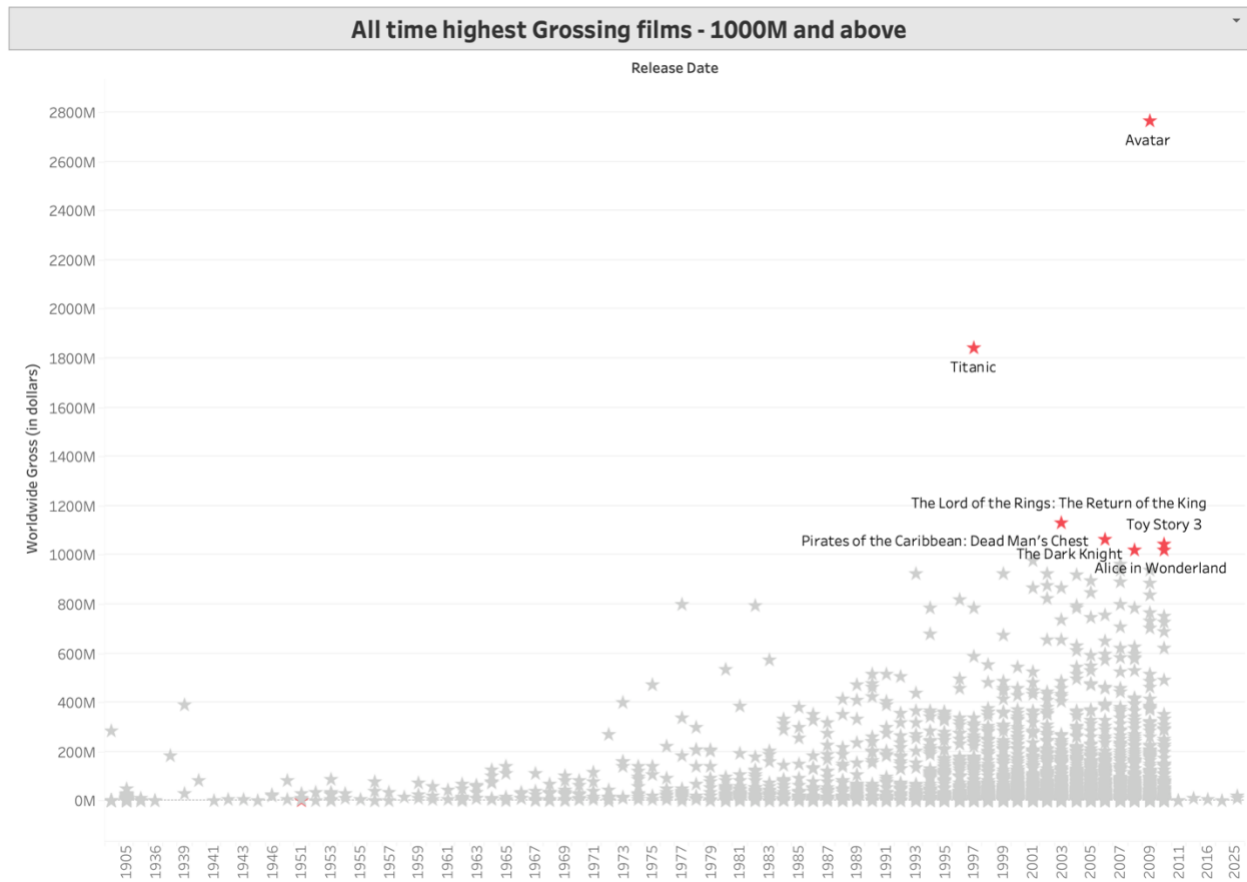
The below visual shows the Production Budget vs Worldwide gross for Lord of Rings film series.



Unlike any other films, the production budget for these films has been decreasing, and maintained around \$100M and less. The films have a long runtime and that did not stop movie goes to stop loving them. The series has gotten great response and hype over the three films and made huge numbers from first film to third film making over \$1000M.

### Visual 8:

The below plot shows the worldwide gross generated by each movie in the dataset individually between the years 1905 and 2010.



The number of movies made in a year increased throughout this time and so the worldwide gross also. We have highlighted the highest grossing top 6 films, "Avatar", "Titanic", "The Lord of the Rings: Return of Kings", "Pirates of the Caribbean: Dead Man's Chest", "Toy Story 3", "Alice in Wonderland", "The Dark Knight". These films have grossed \$1000M and above.

Two of the above films are James Cameron's and one being Christopher Nolan's. And one is an animated film, making history grossing such high numbers in the category.