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# Data Visualisation

## Assignment 1 - November, 2017

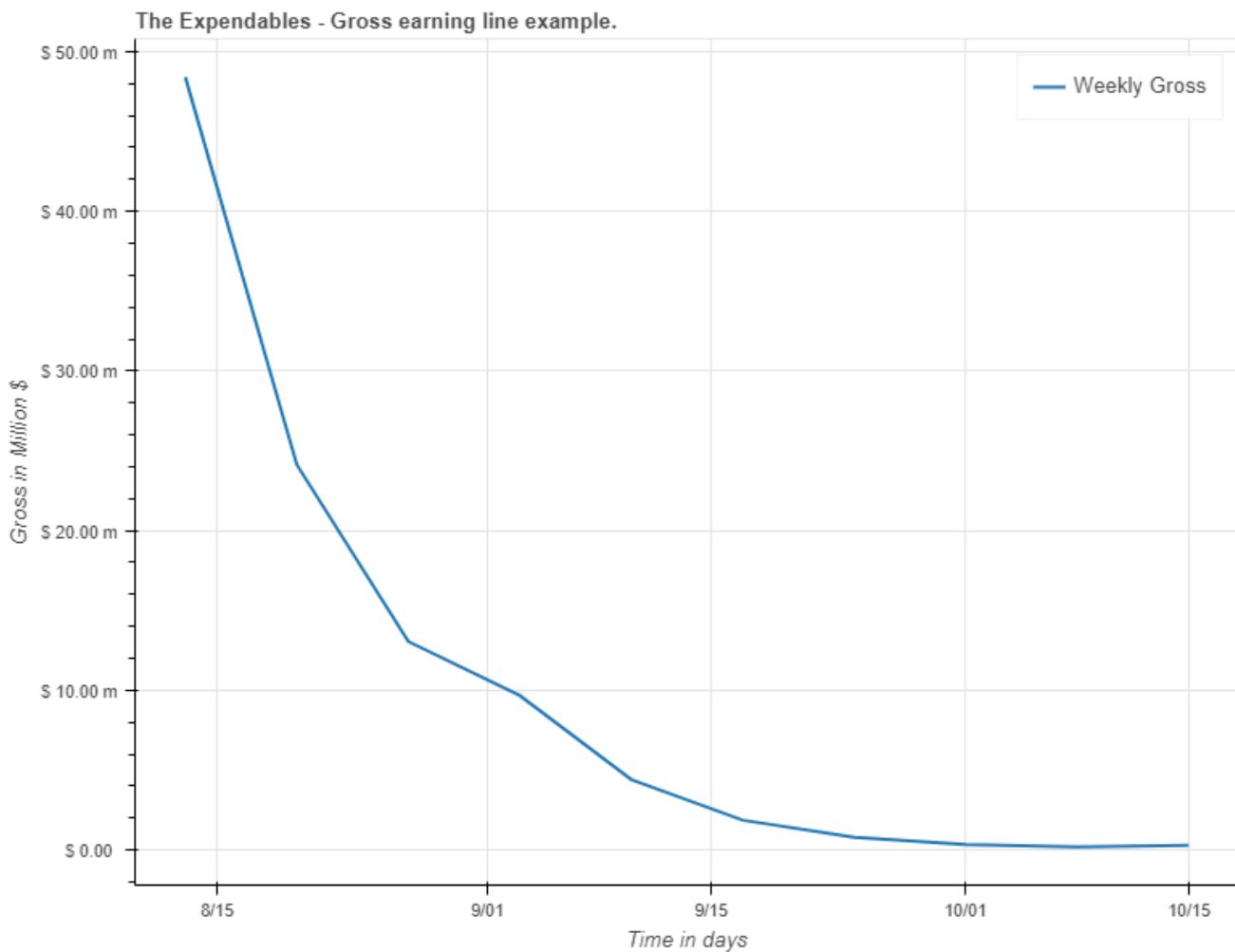
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### Solution 1 - Weekly Gross Development

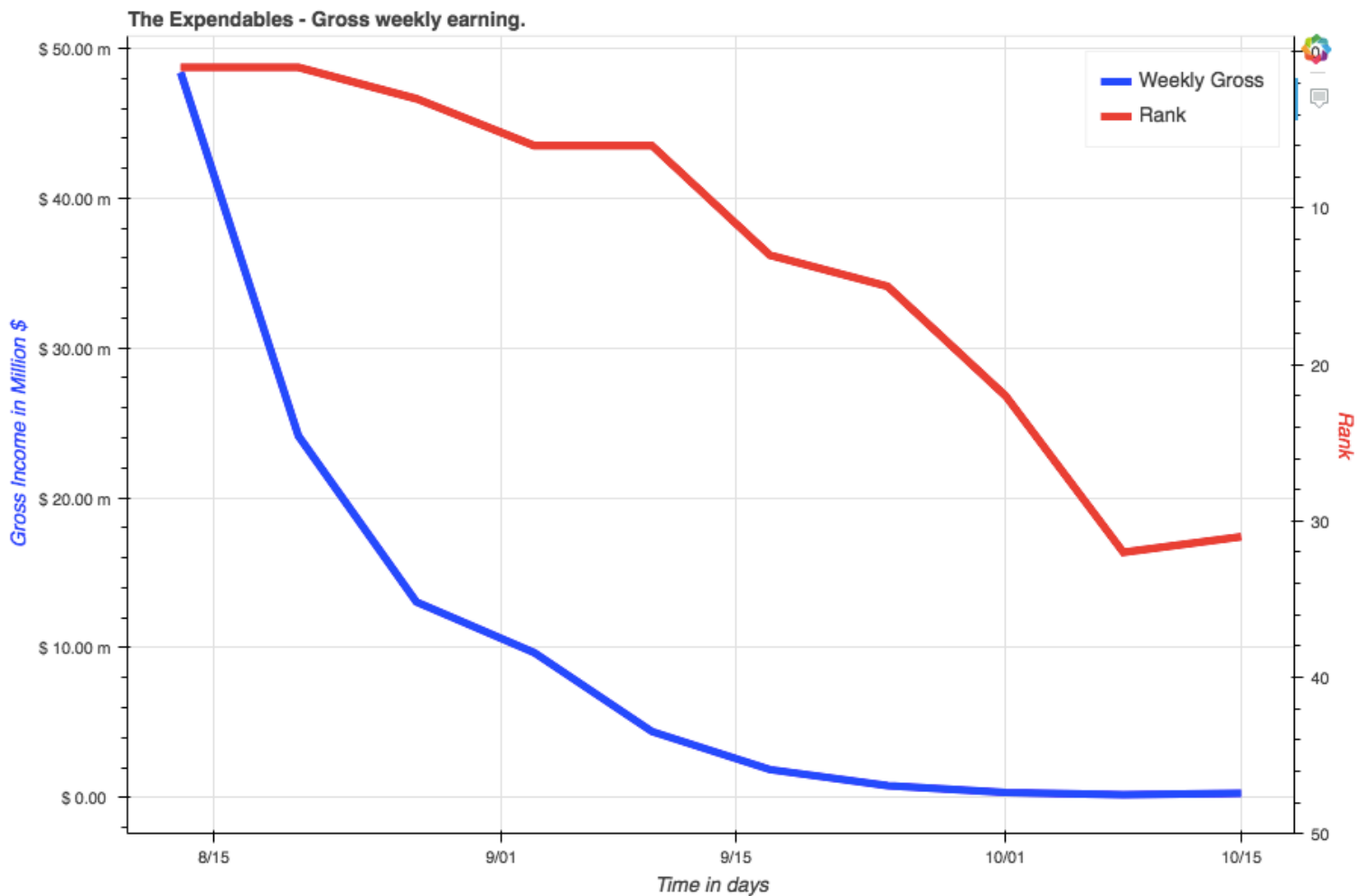
#### Task 1.1 - Starting Bokeh and Importing Data

Sample line plot of the gross income for the movie : The expendables.



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## Task 1.2 - Visualisation and Analysis



### 1.2.1:

As seen in the graph, the weekly gross income of the movie is decreasing over time.

### 1.2.2:

There is a correlation with the rank of the movie. As the rank decreases over time, the gross income also decreases.

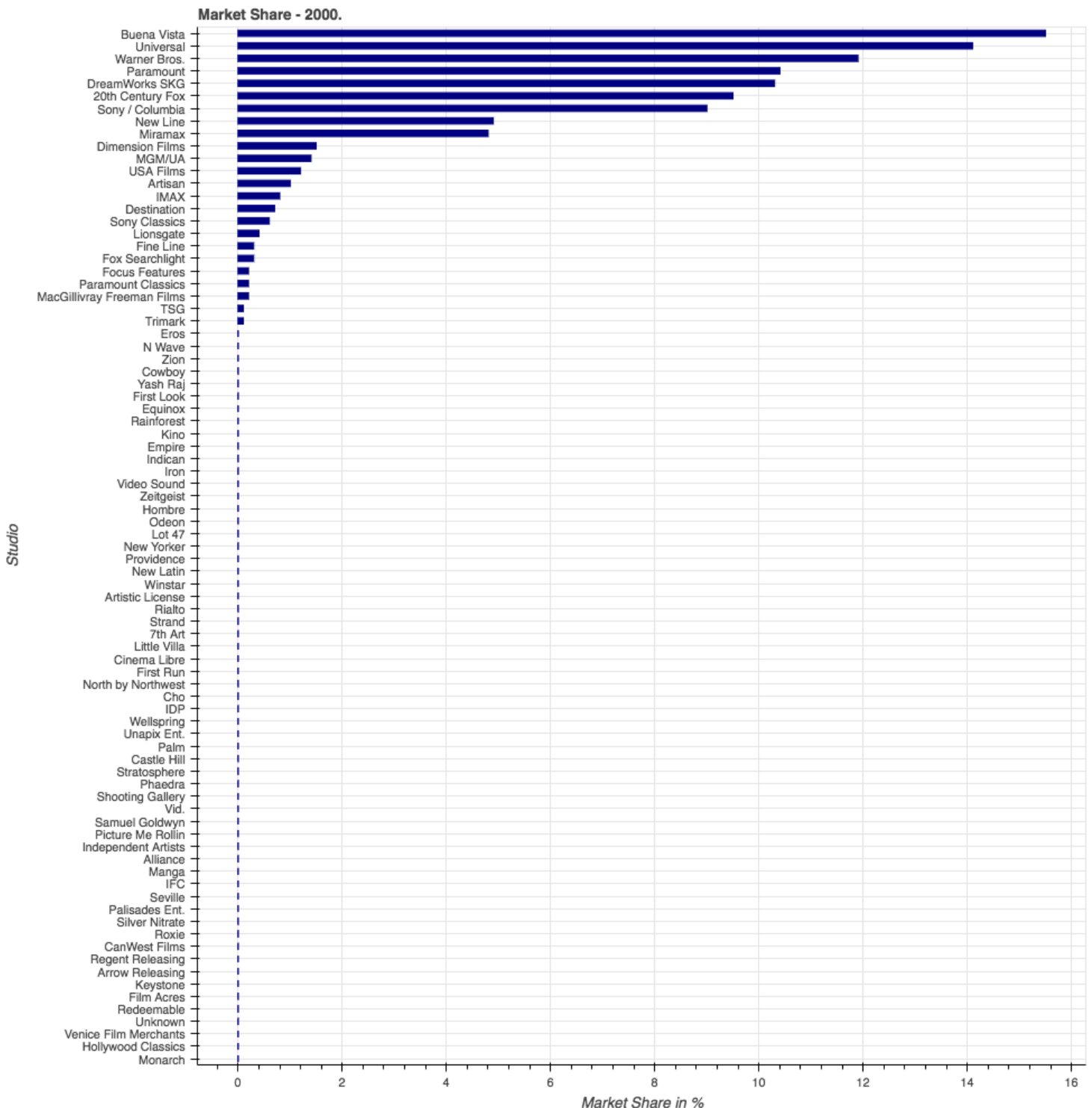
### 1.2.3:

From the graph, we can conclude that the movie is among the top 10 ranks for around a month.

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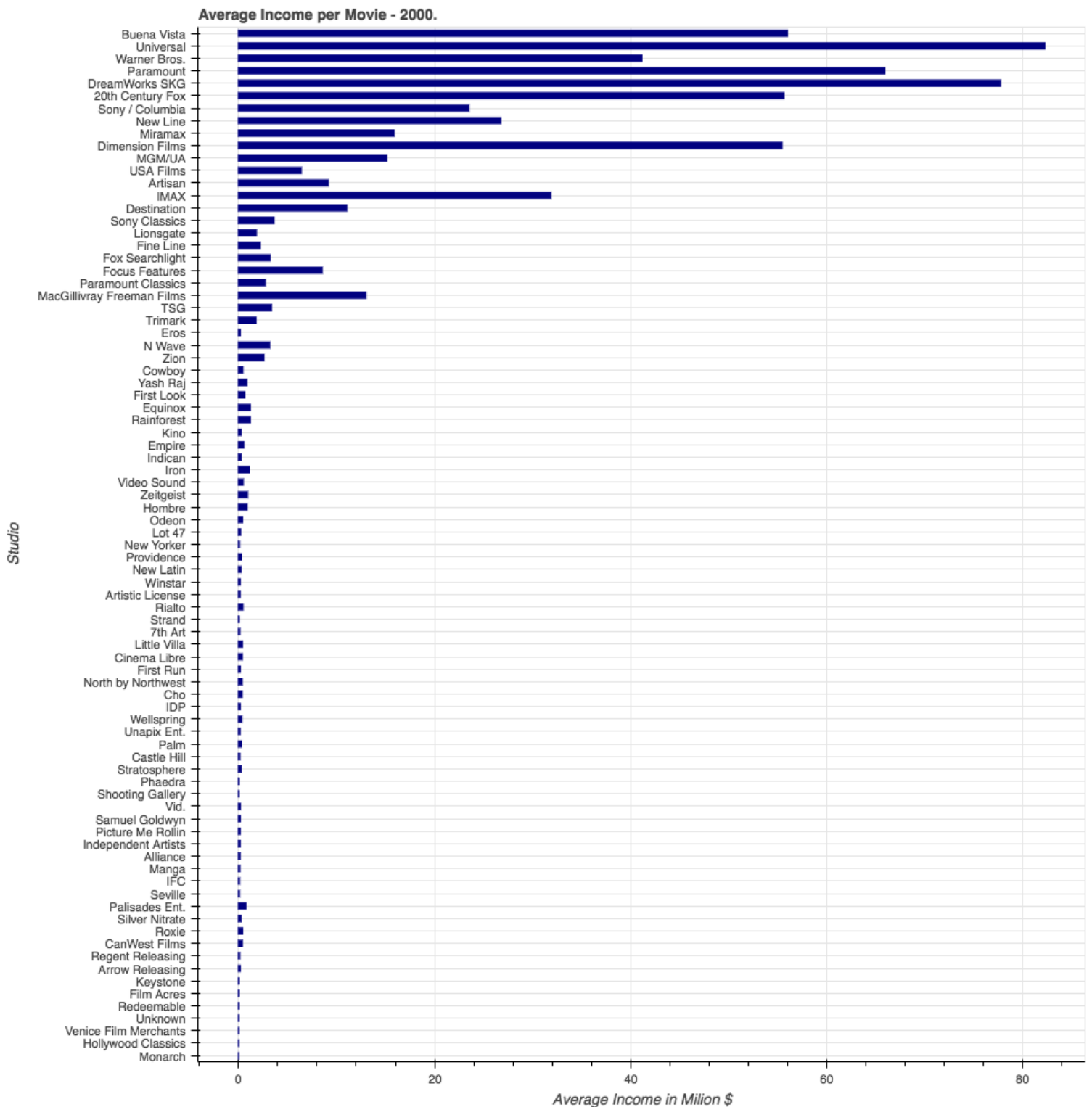
## Solution 2 - Market Shares

### Task 2.1



From the graph, we can see that the studio - Buena Vista has the maximum Market share for the year 2000. We can conclude that it is the dominating studio.

## Task 2.2



The above graph shows the average income earned by a studio per movie. It is evident that Buena Vista seems to have produced more films to gain a better share in comparison to studios like Universal which has more successful films.

## Solution 3 - Success of genres

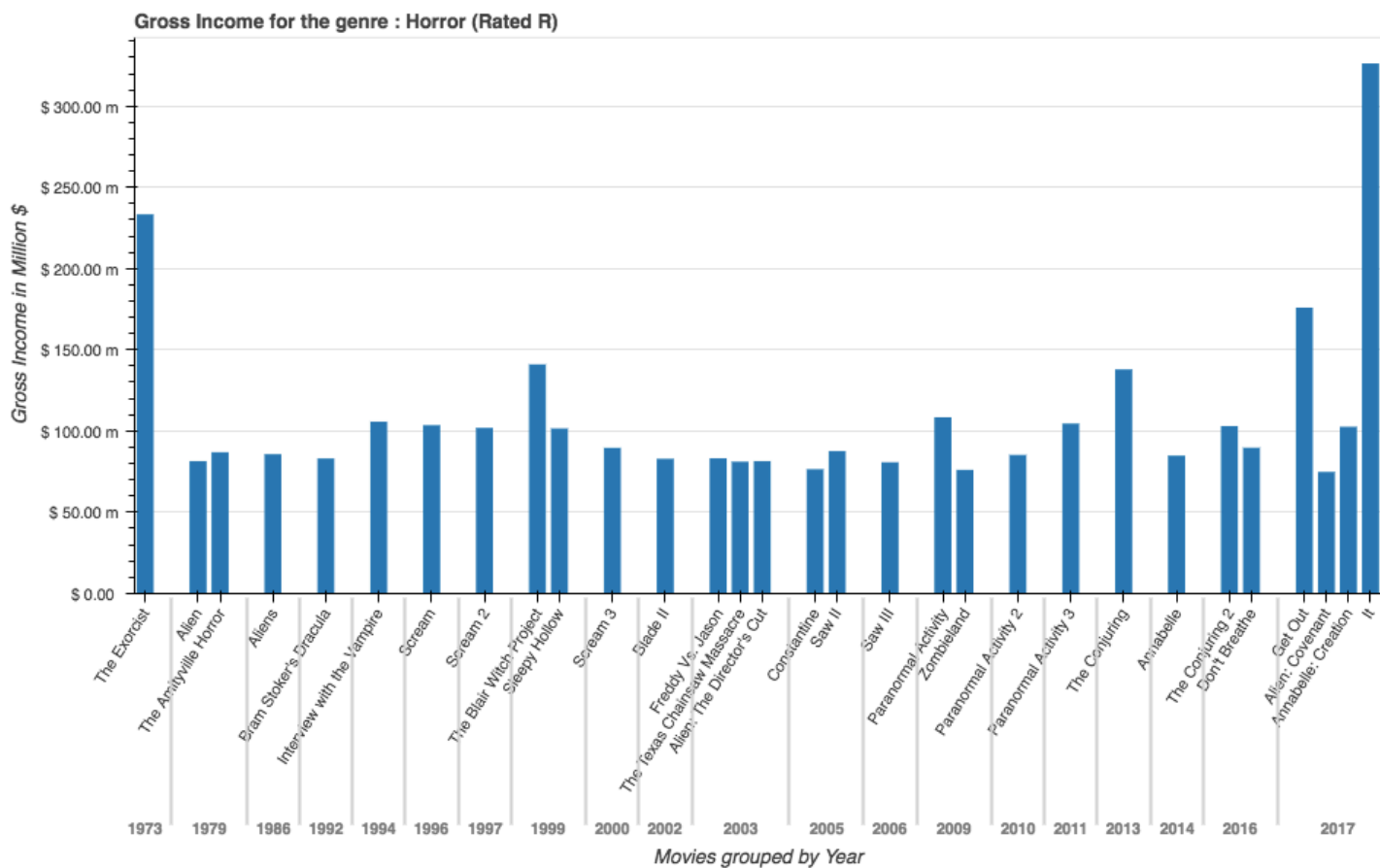


Figure 3.1

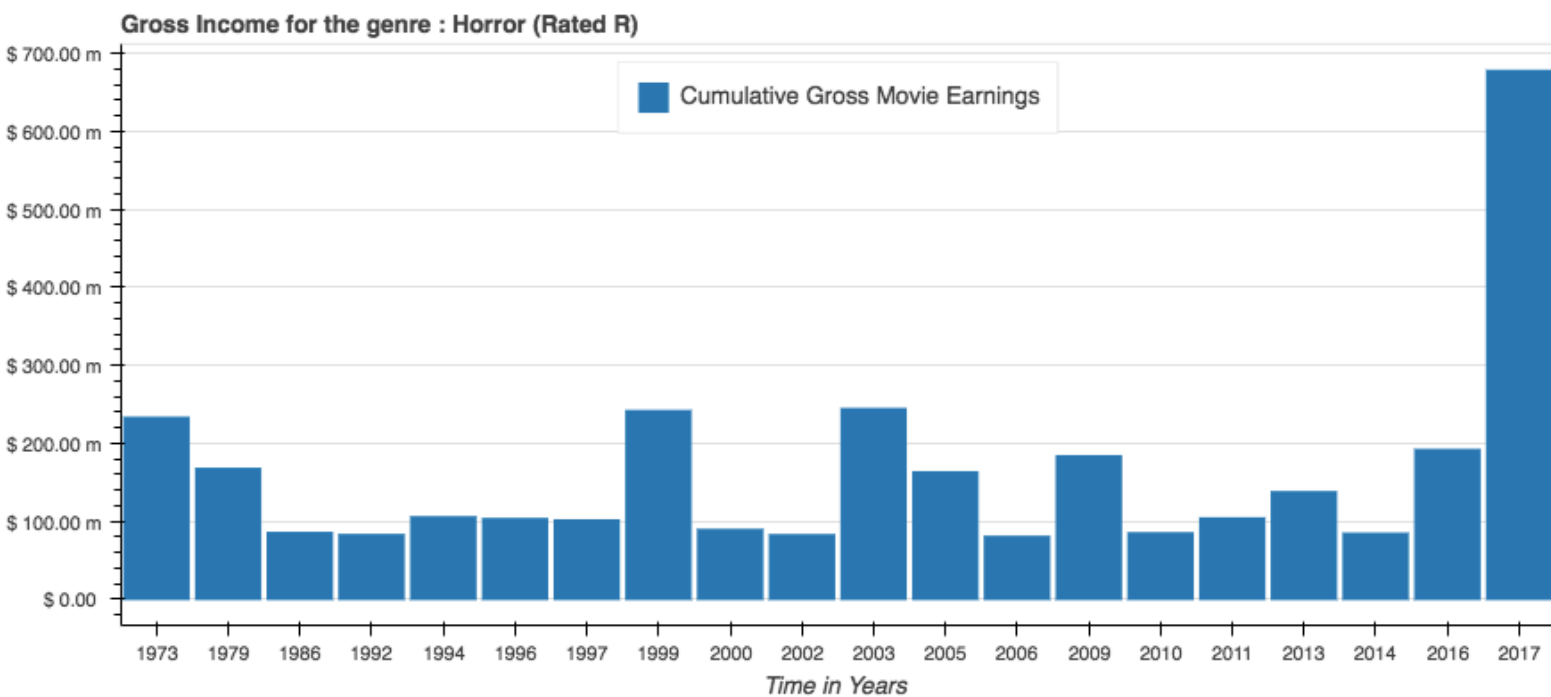


Figure 3.2

### Task 3.1

As seen in Figure 3.2, the 1970's and around years: 1999, 2003 and 2009 have been good for films of this genre. The year 2017 has seen a very significant increase in the gross earning due to some very successful movies (IT).

### Task 3.2

As seen in Figure 3.1, the movie "IT" is the highest grossing movie with around 326 Million Dollars in gross earning in the year 2017.

### Task 3.3

As seen in Figure 3.2, we can see significantly more movies and cumulative gross earnings in the year 2017. A film of this genre is likely to become a success in this period.

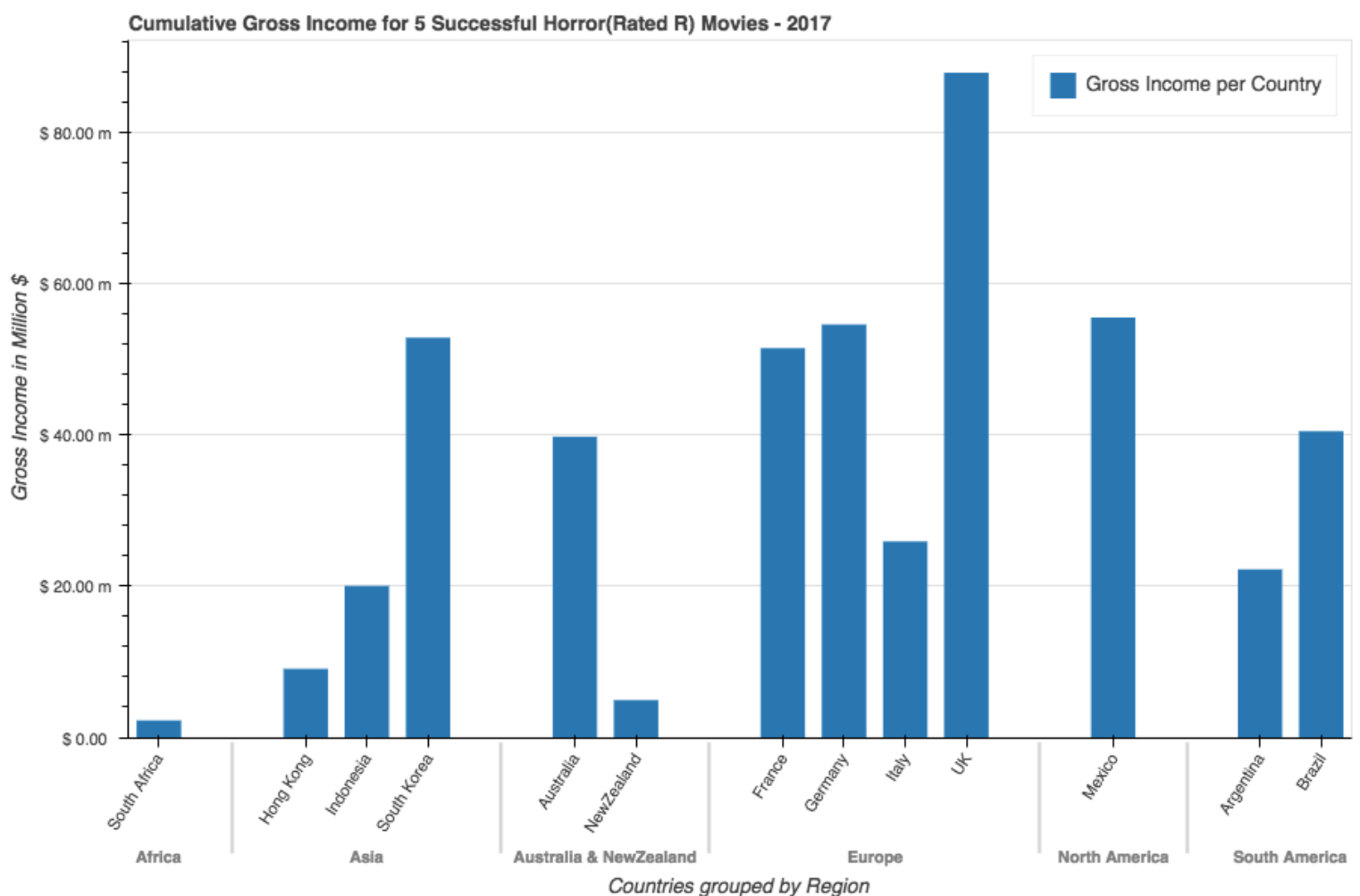


Figure 3.3

\*\* NOTE: Only selected foreign countries from each region is chosen for this visualisation

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**Task 3.4**

As seen in Figure 3.3, we can see that UK has a considerably higher gross earning when compared to other countries.

**Task 3.5**

As seen in Figure 3.3, the genre - Horror (Rated R) is particularly favoured in the European region. Mexico (North America) and South Korea (Asia) also seem to favour this genre.

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