
Data Visualisation

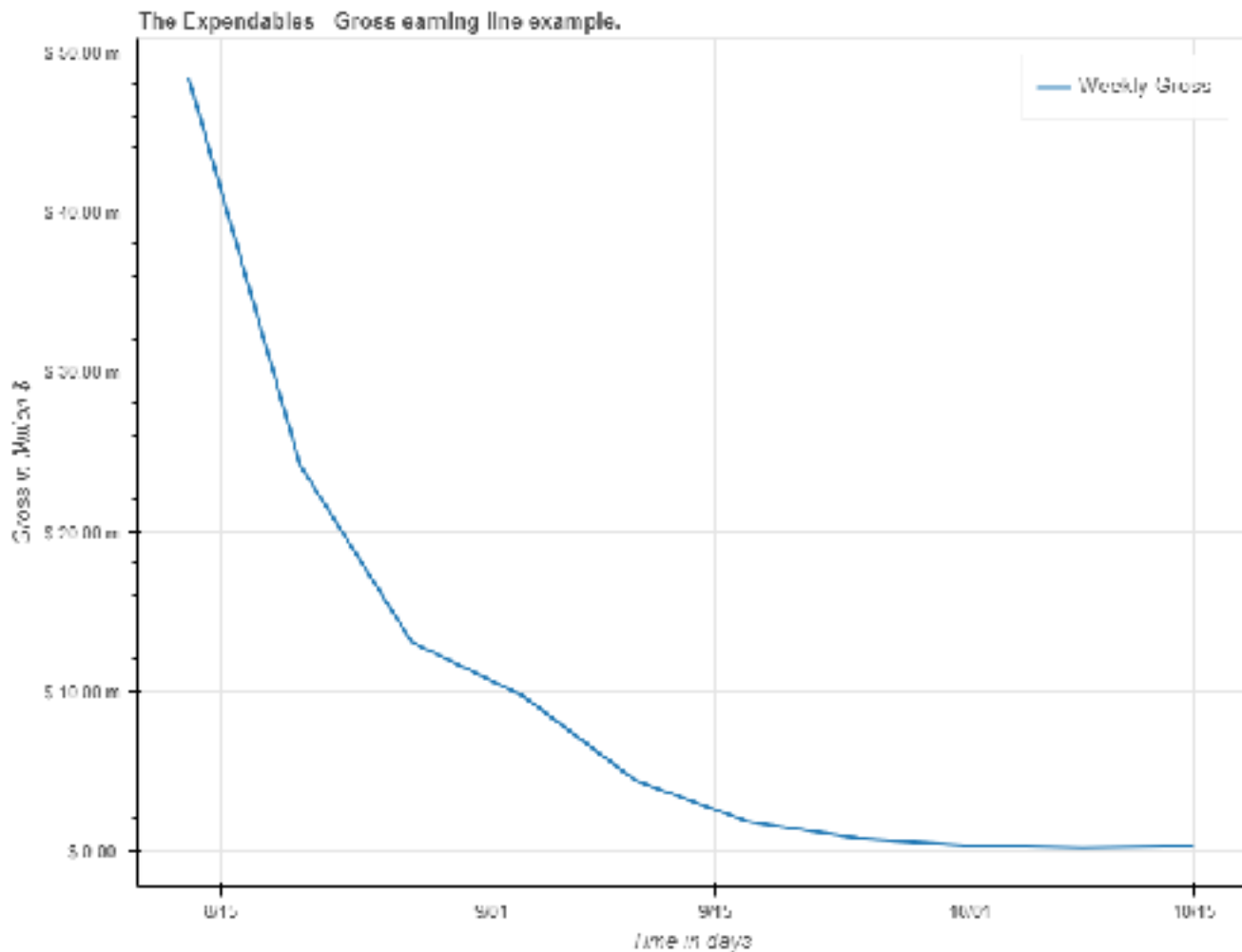
Assignment 1 - November, 2017

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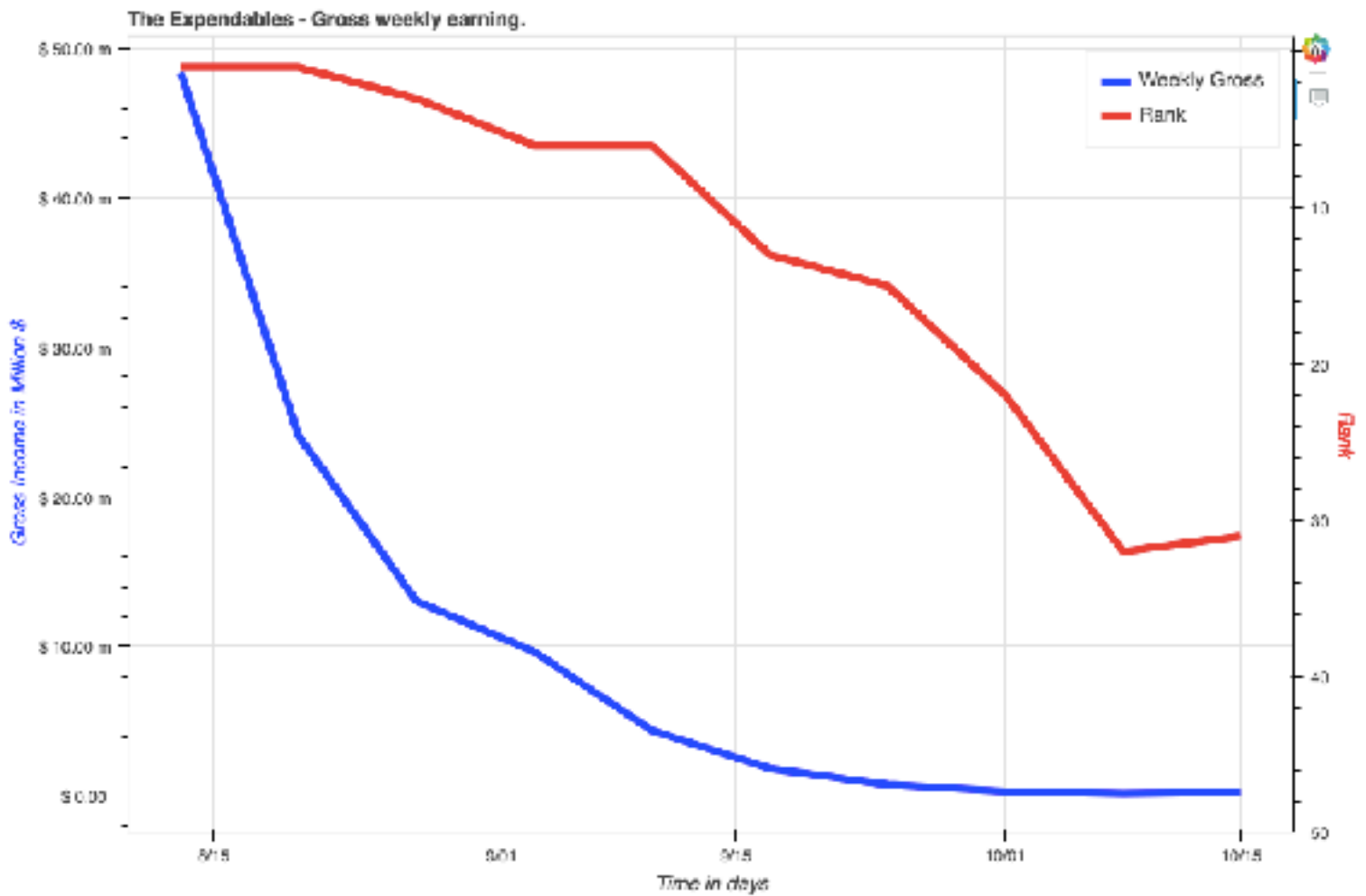
Solution 1 - Weekly Gross Development

Task 1.1 - Starting Bokeh and Importing Data

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



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:

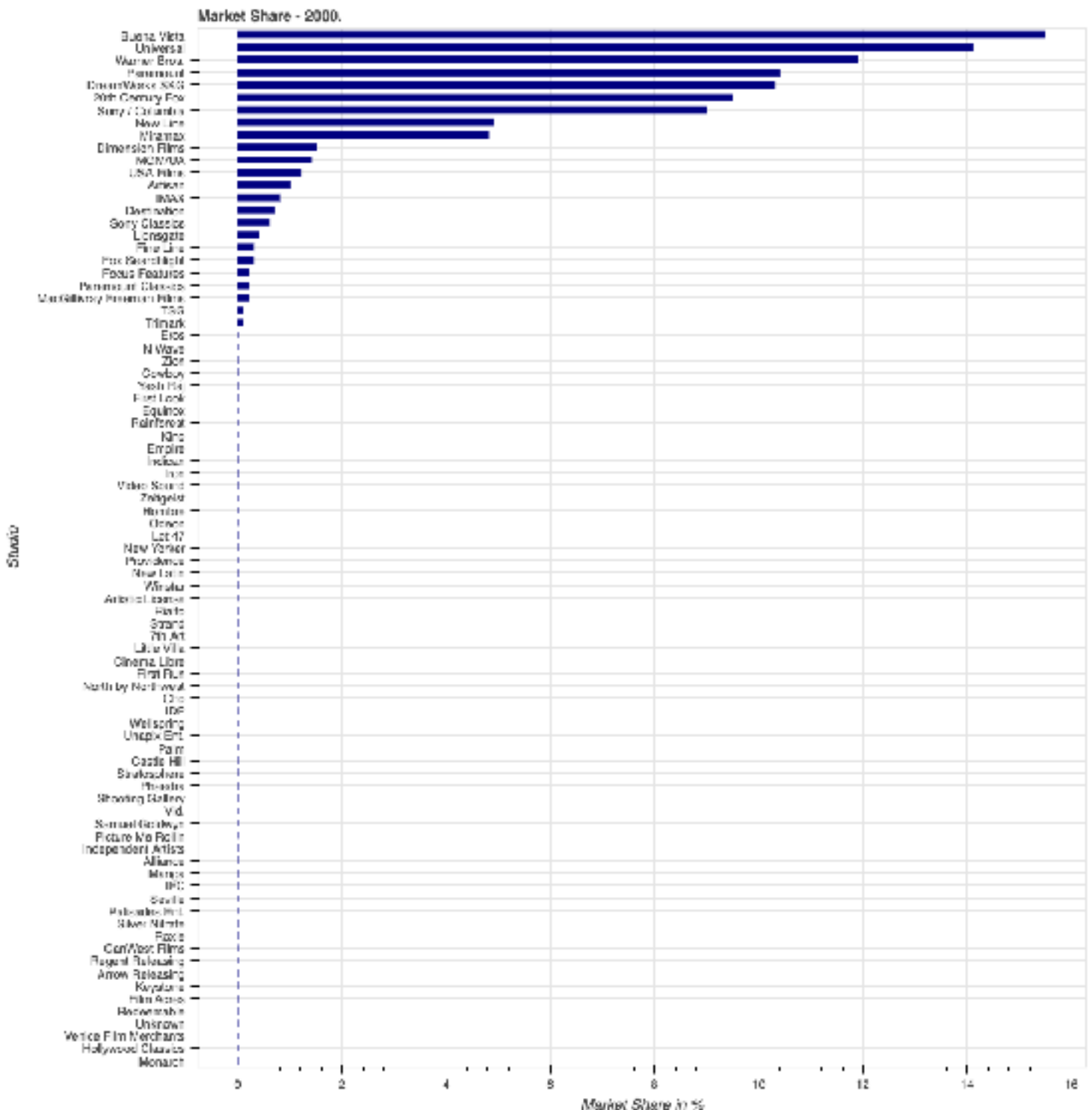
There is a correlation with the rank of the movie. As the rank decreases over time, the gross income also decreases.

1.2.3:

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

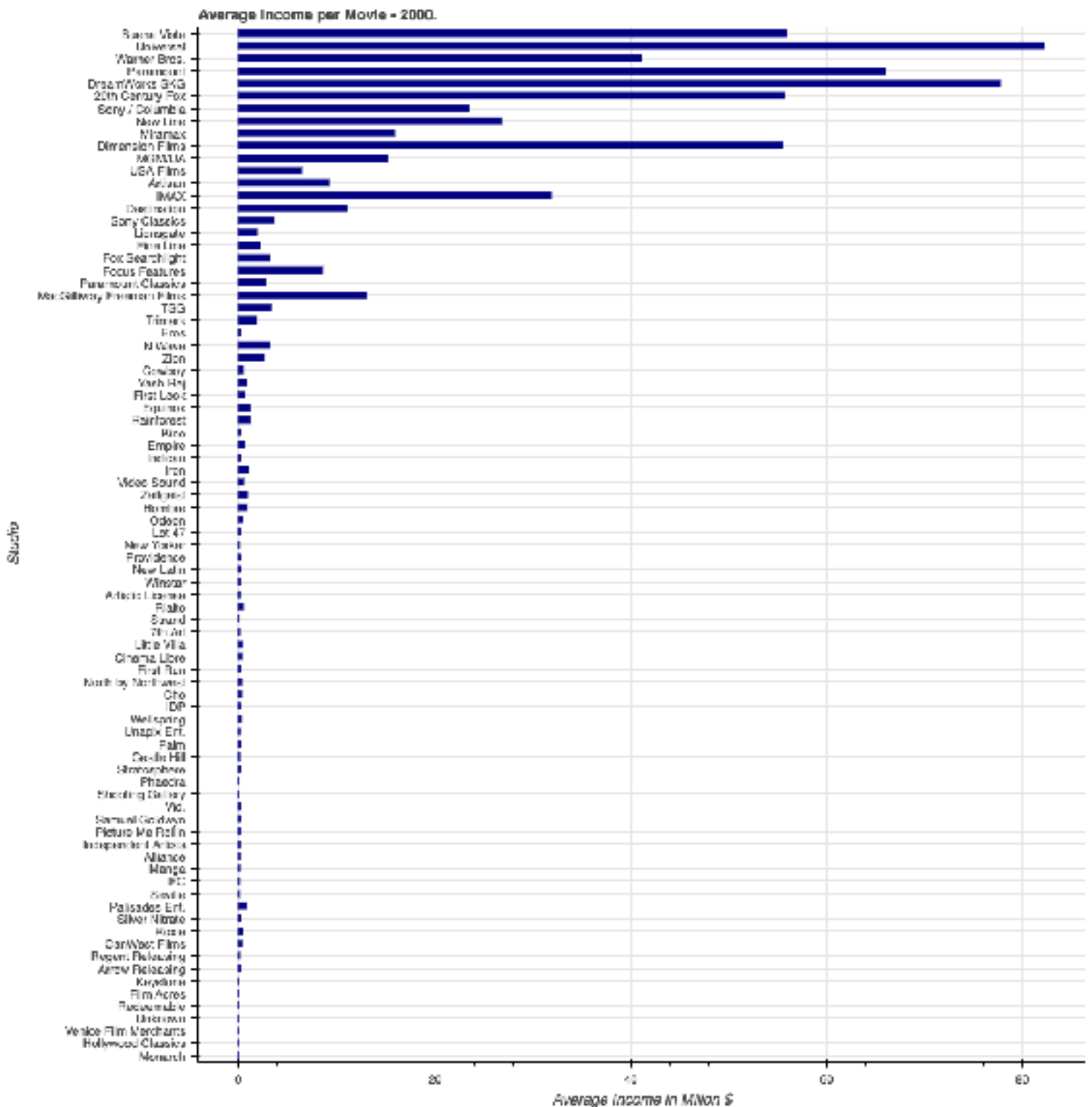
Solution 2 - Market Shares

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

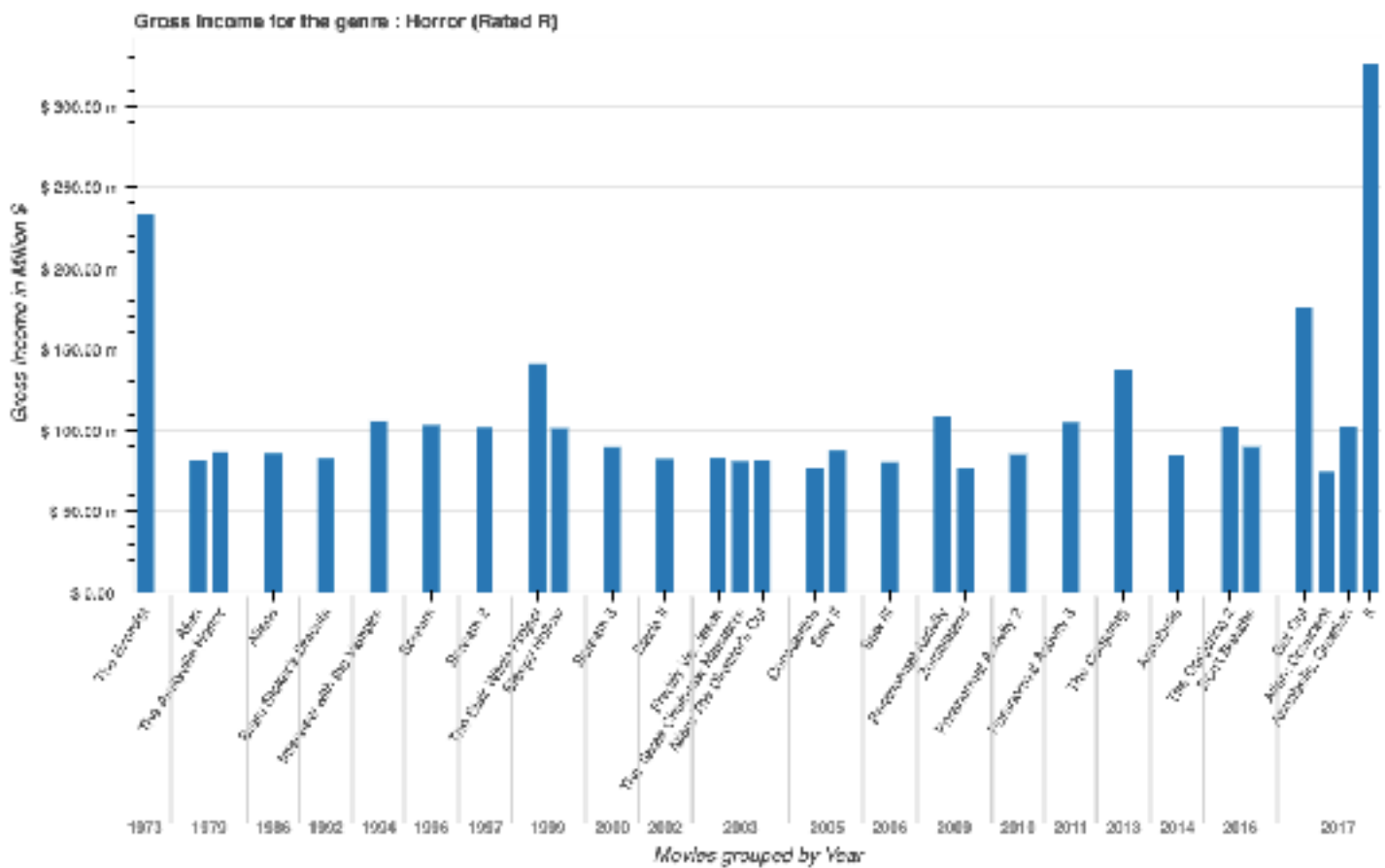


Figure 3.1

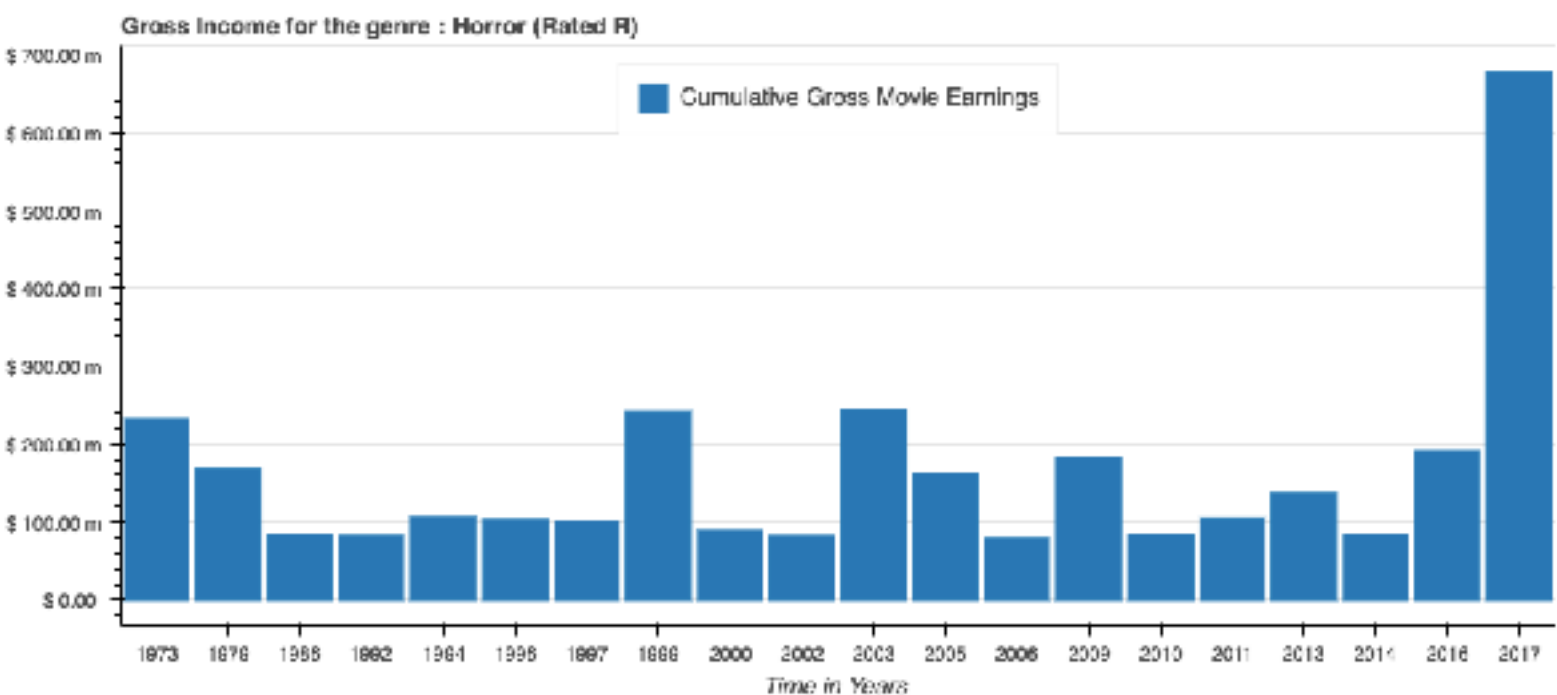


Figure 3.2

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.

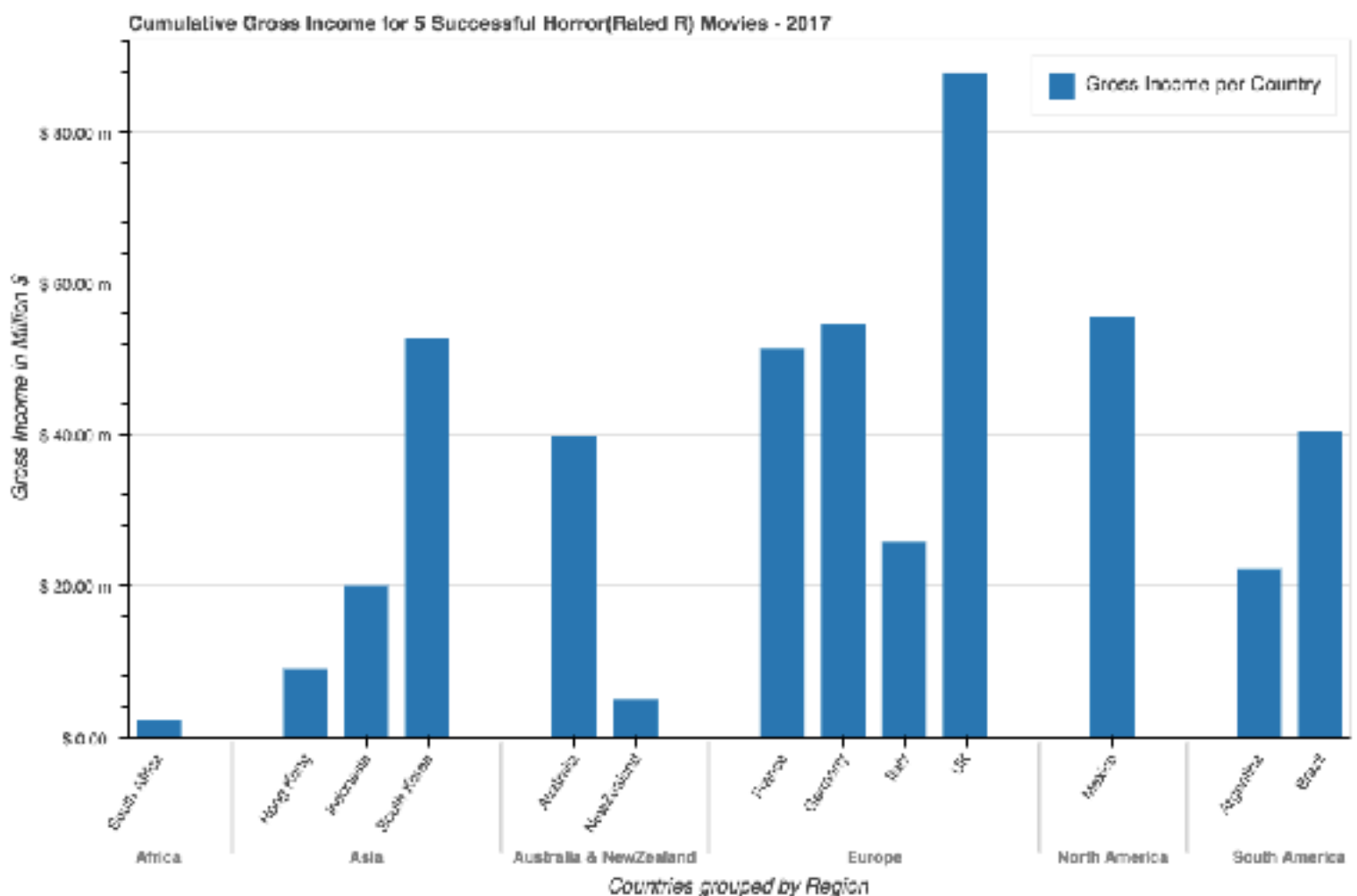


Figure 3.3

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

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.
