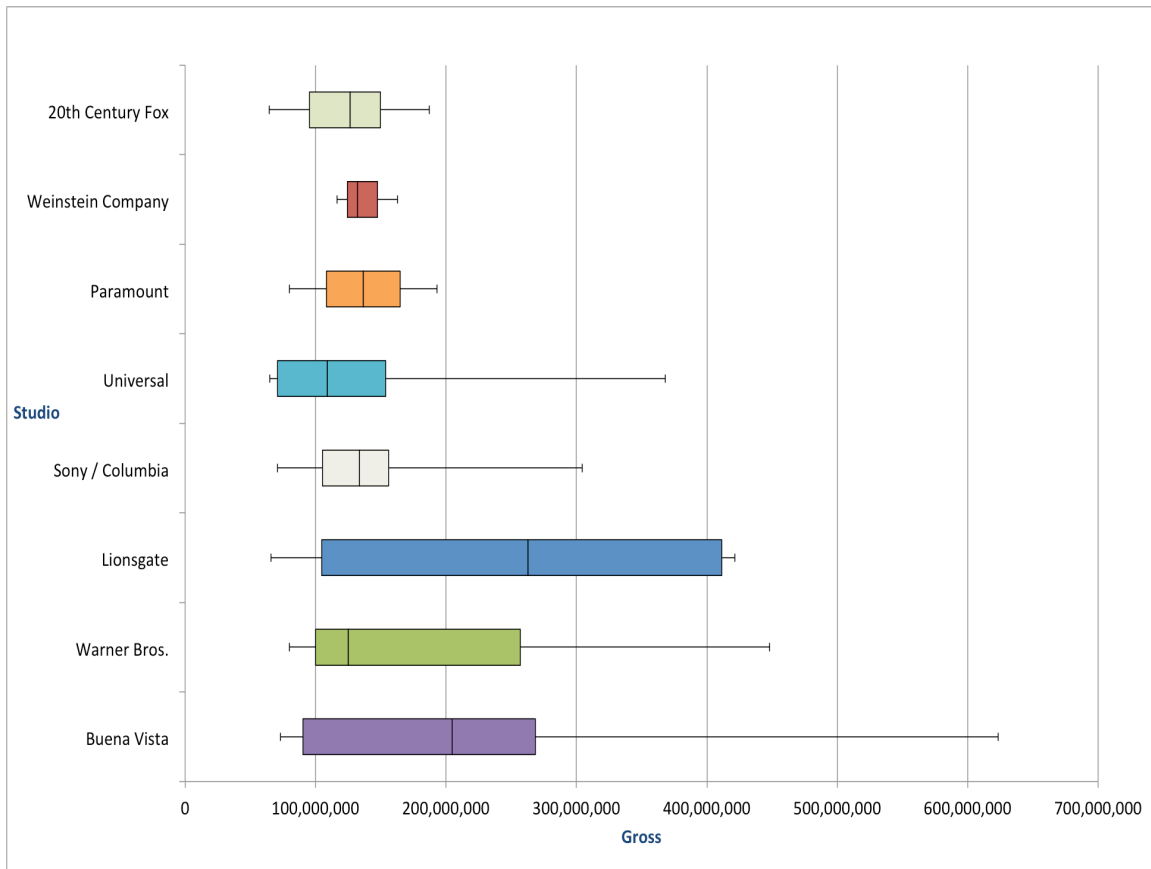


## CSE591-Assignment2

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In this assignment, I use Excel to analyze the data set and create the statistical graphics.

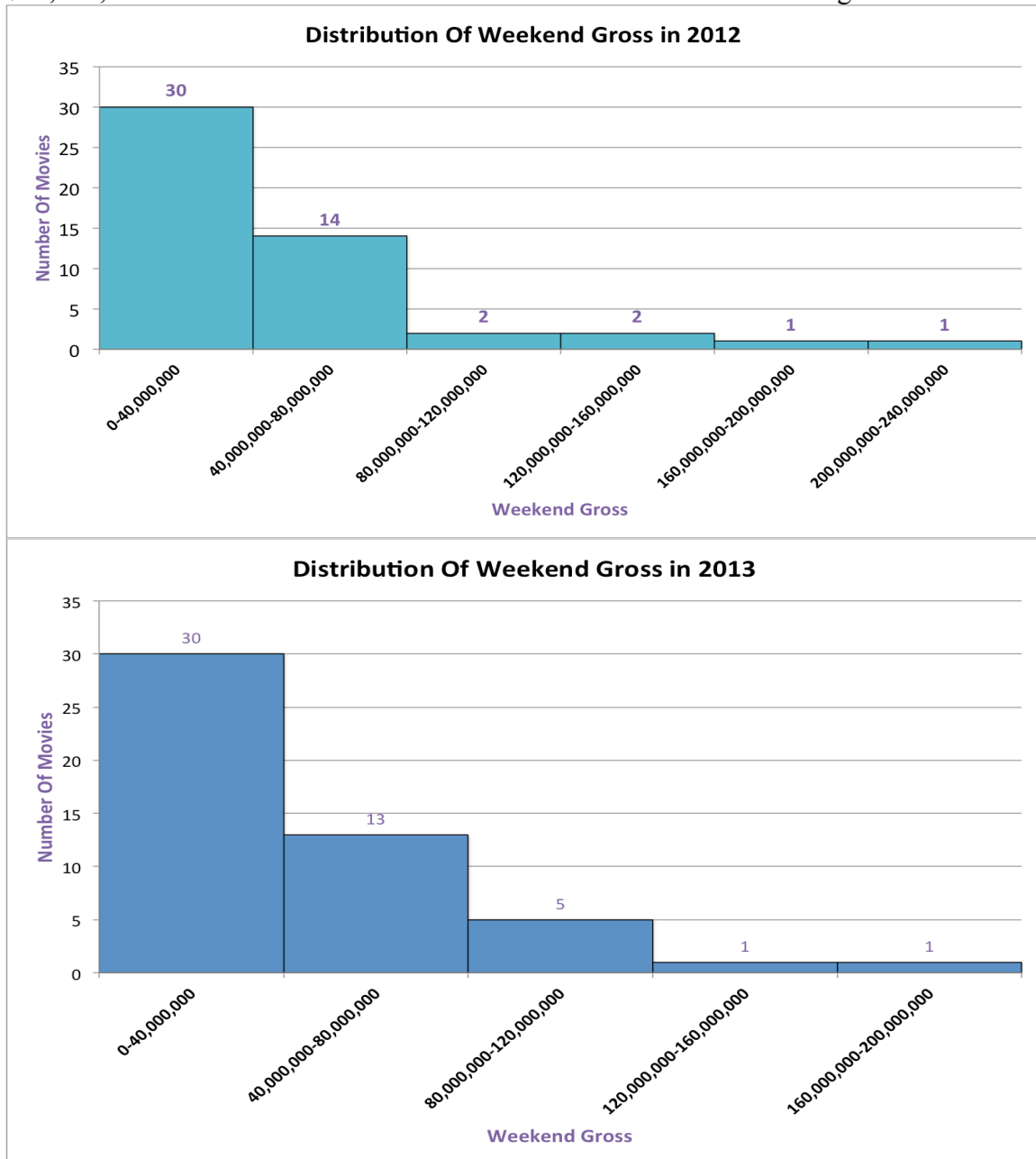
(1) A box and whisker graphic comparing the inflation adjusted gross with respect to the studios (combine both years of movies for this exercise)



In the top 50 movies of the 2012 and 2013 movie season, there are 14 different studios. In my box and whisker plot graphic, I removed some studios with few data like Relativity and FilmDistrict. Also, I combined some studios data. For example, Tris and Segm are belong to Sony/Columbia and PD/W is belong to Paramount. So at last, after analyzing the data set, I compare the adjusted gross with respect to 8 studios.

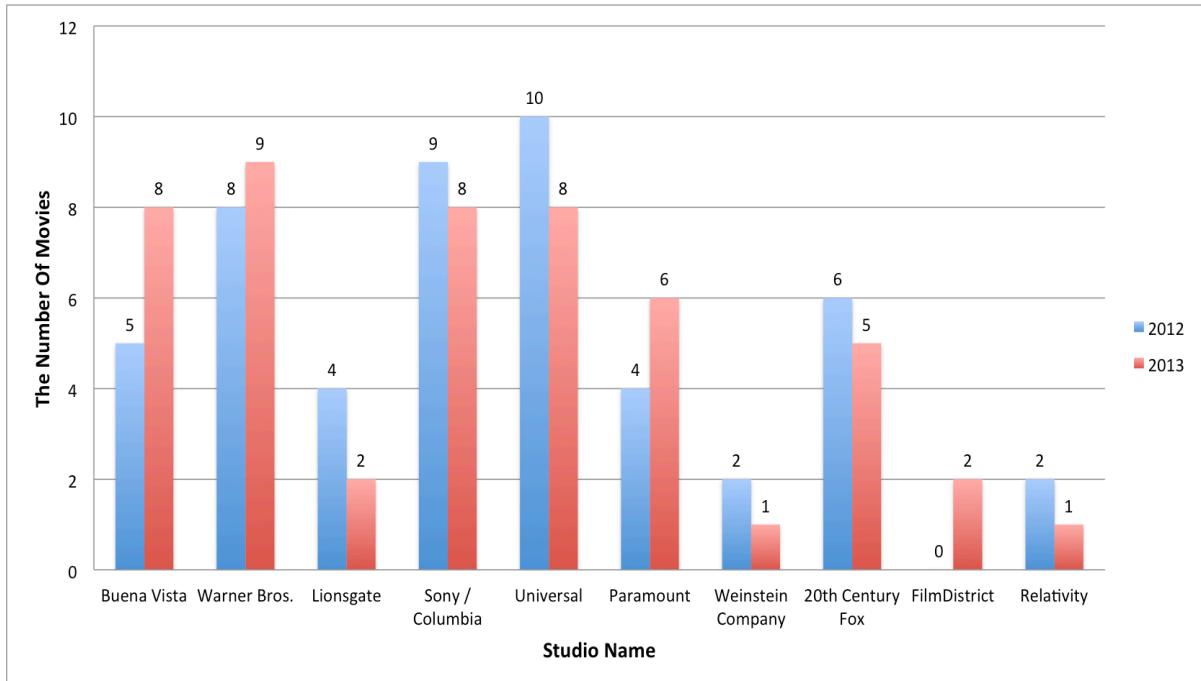
(2) Create two histograms showing the distribution of weekend grosses in the year 2012 and 2013 respectively (x-axis is in weekend gross, y axis is number of movies with a given gross)

The following two histograms present the distribution of weekend gross in 2012 and the distribution of weekend gross in 2013. As shown in the histograms, for the top 50 movies of the 2012 and 2013 movie season, the opening weekend gross of most movies are under \$40,000,000. 2013 season has more movies than 2012 season in the range between

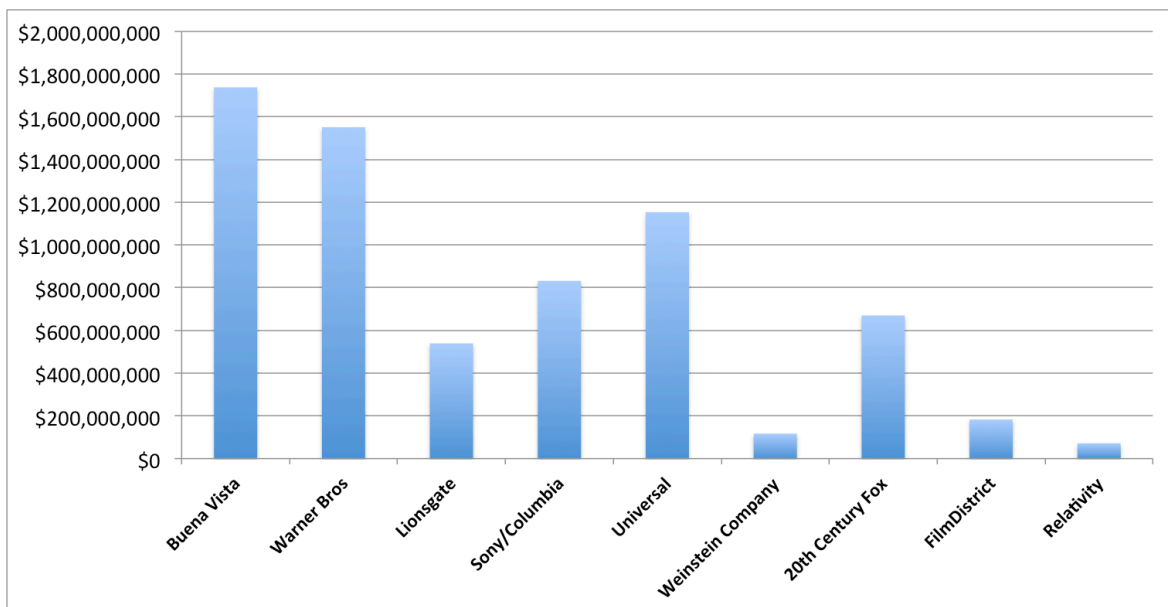


(3) Use statistical graphics to answer two questions of your own making

First question: Analyzing the top 50 movies of the 2012 and 2013 movie season, how did the number of movies of different studios in 2012 compare to the number of movies of studios in 2013?



Second question: Analyzing the top 50 movies of the 2013 movie season, how did the total sum gross of studios compare to each other?



(4) Compare the average gross distribution of each category between 85th and 86<sup>th</sup> academy awards.

