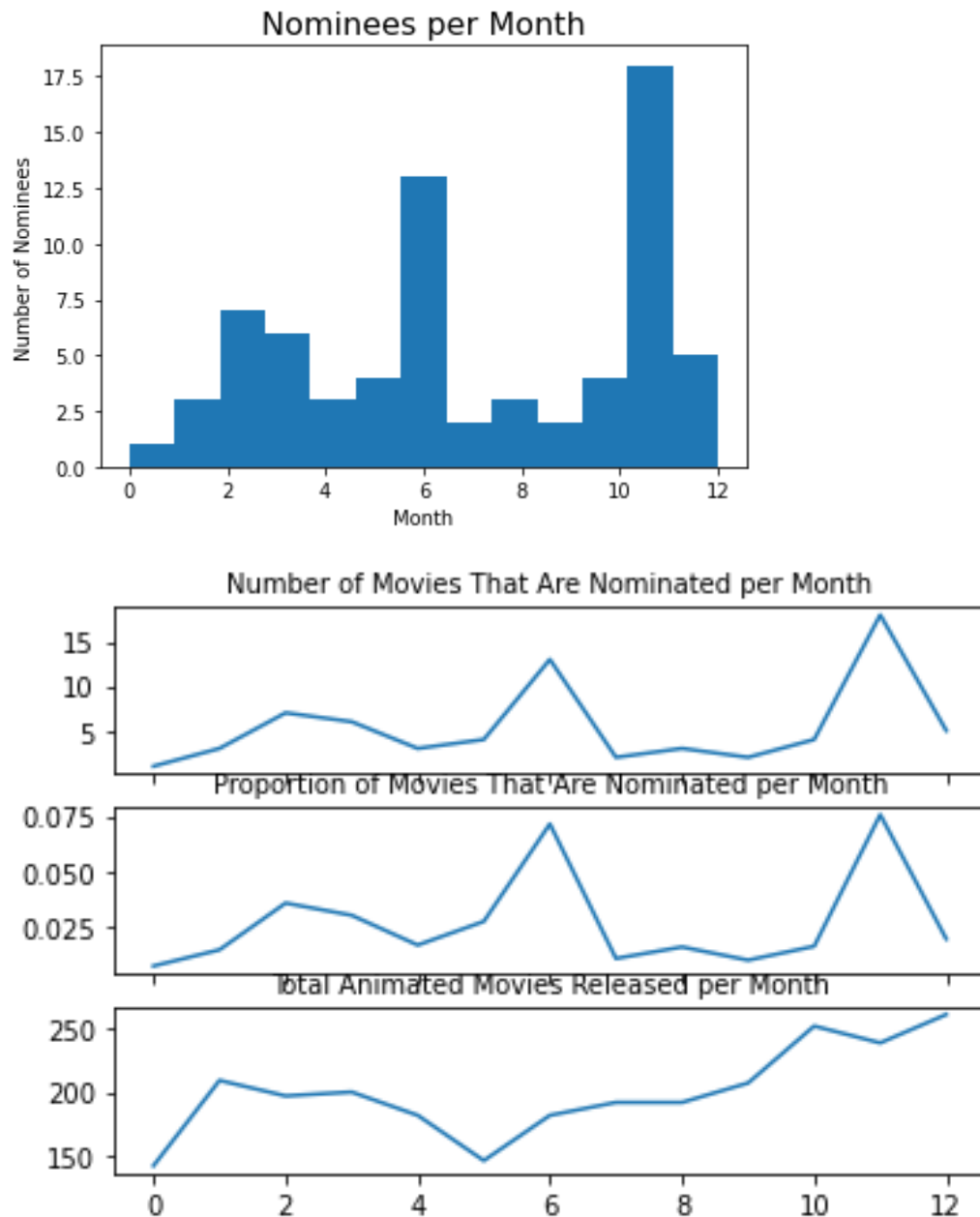


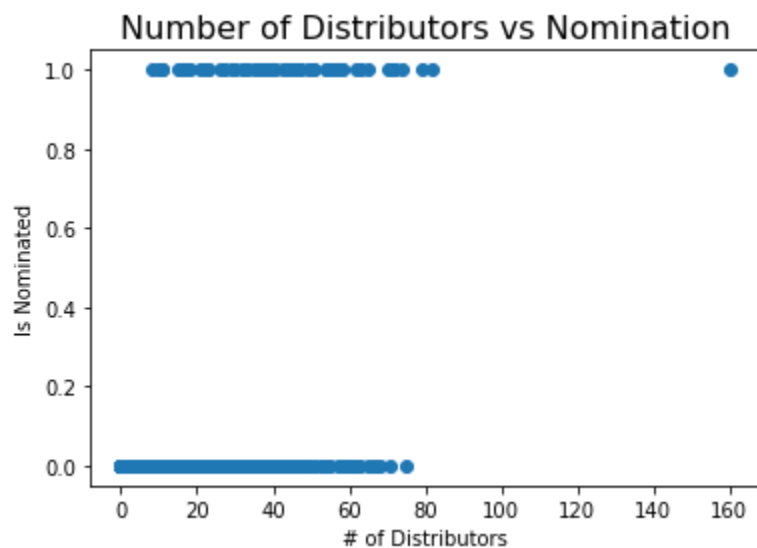
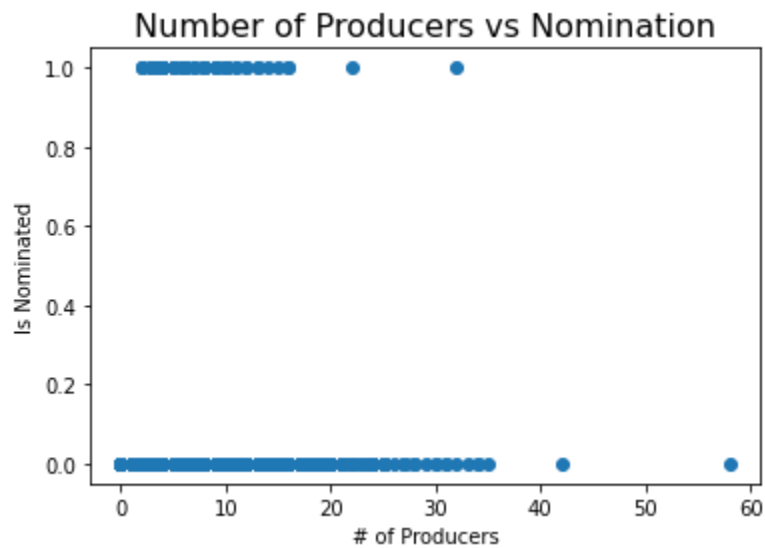
Original release months

A month of 0 means month data was not available on IMDb. Otherwise, 1=January, 2=February, etc.



So, based on the middle line graph, it seems that releasing a movie in June or November significantly increases your chances of being nominated for Best Animated Movie.

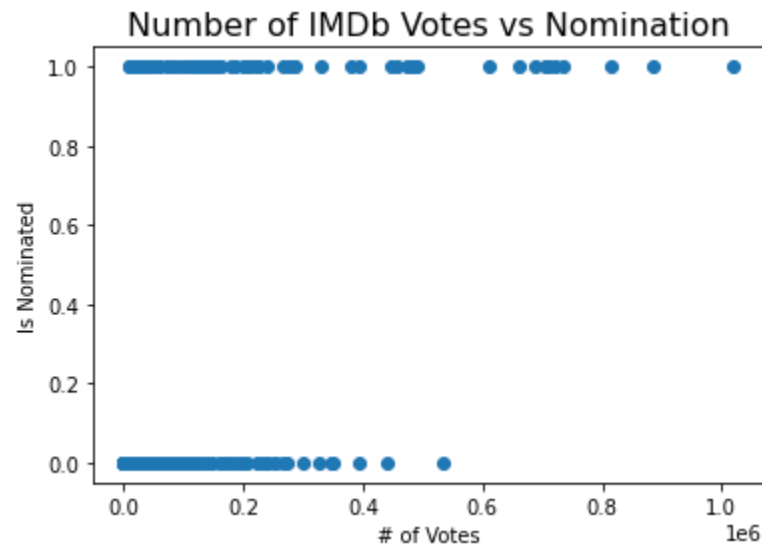
Number of Producers/Distributors



There seems to be a small correlation - fewer producers is better, and more distributors is better. But, there isn't a huge distinction.

The outlier on distributors is Shrek.

IMDb votes



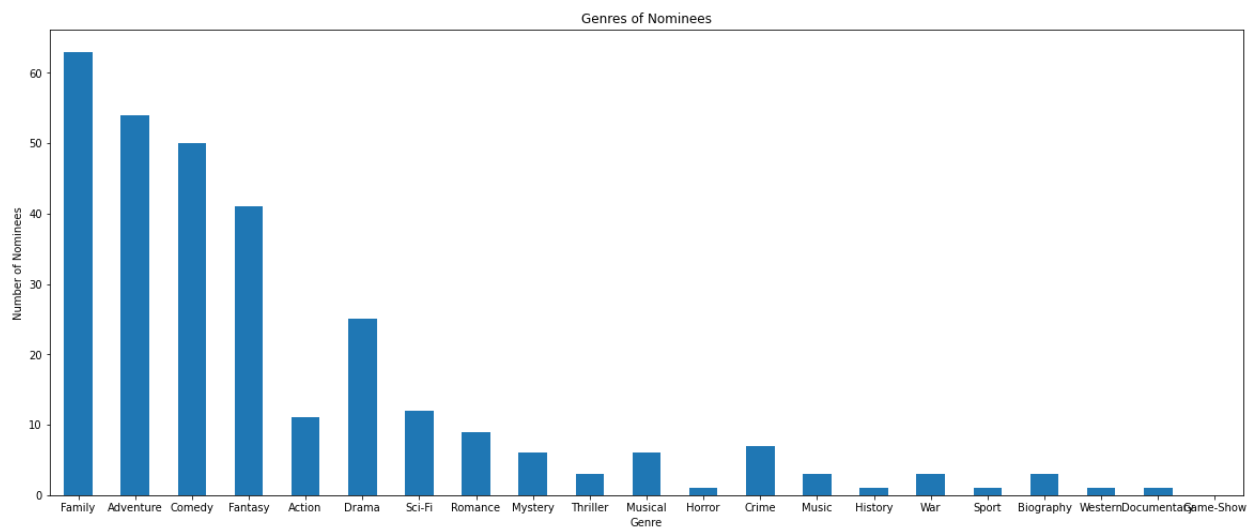
Movies with more IMDb votes seemed to generally fare better. But, fewer votes doesn't necessarily mean it won't get nominated.

Genres

Note: There is one Game-Show movie, and it did not make it into the training set when I did train-test split.

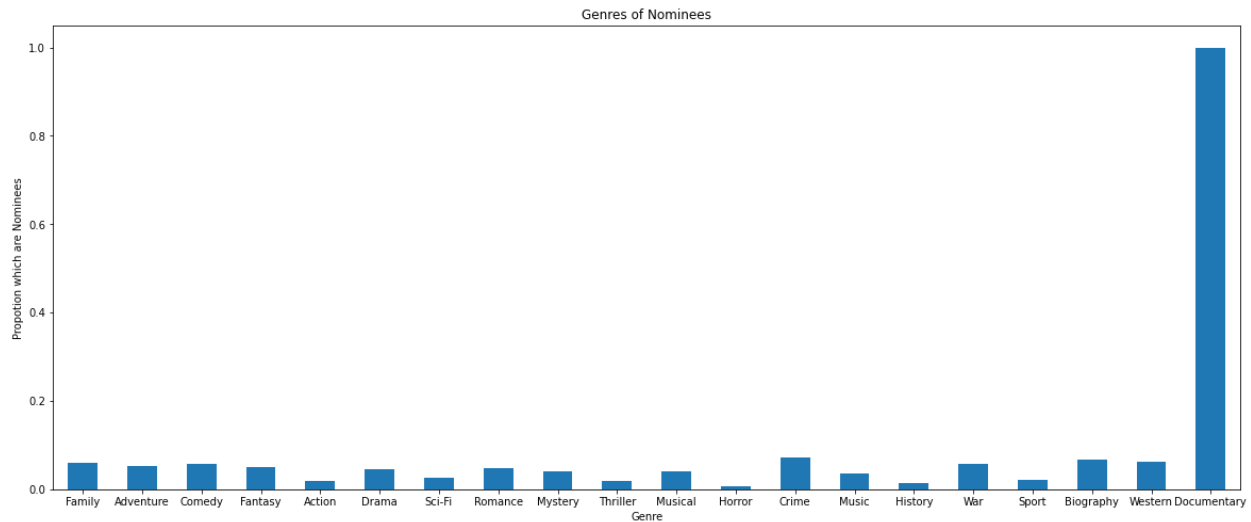
This is the most complicated data so far. I feel like I may be missing a key visualization because I'm not sure how to interpret this.

First, we have a bar graph of the number of nominees in each genre. Note that most movies have more than one genre, so the bars have some overlap.



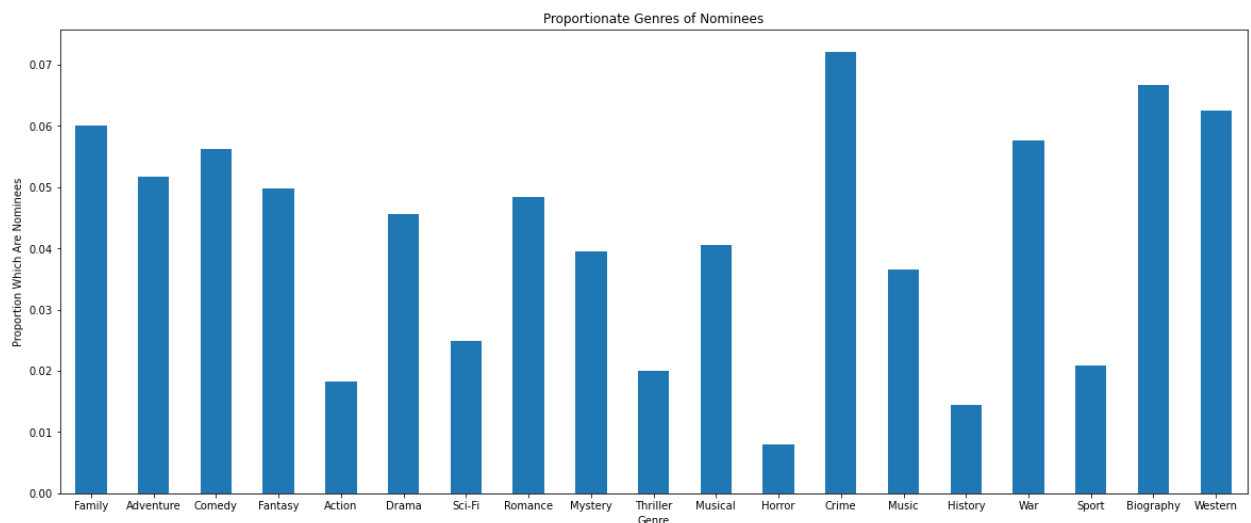
The genres are ordered greatest to least, in terms of the number of total animated movies with that genre.

To help scale this, I made a bar graph that showed the proportion of movies with that genre that were nominated. Instead of asking what the genres of the nominees are, I instead asked what proportion of each genre was nominated. That is, the height of each bar is $(\text{number of nominated movies in that genre}) / (\text{total movies with that genre})$. Here is the bar graph for that:



This graph looks strange, because one animated film overall is a documentary, and it happened to be nominated (interestingly, every single genre has been nominated at some point).

Excluding that one movie, this is the bar graph we get:



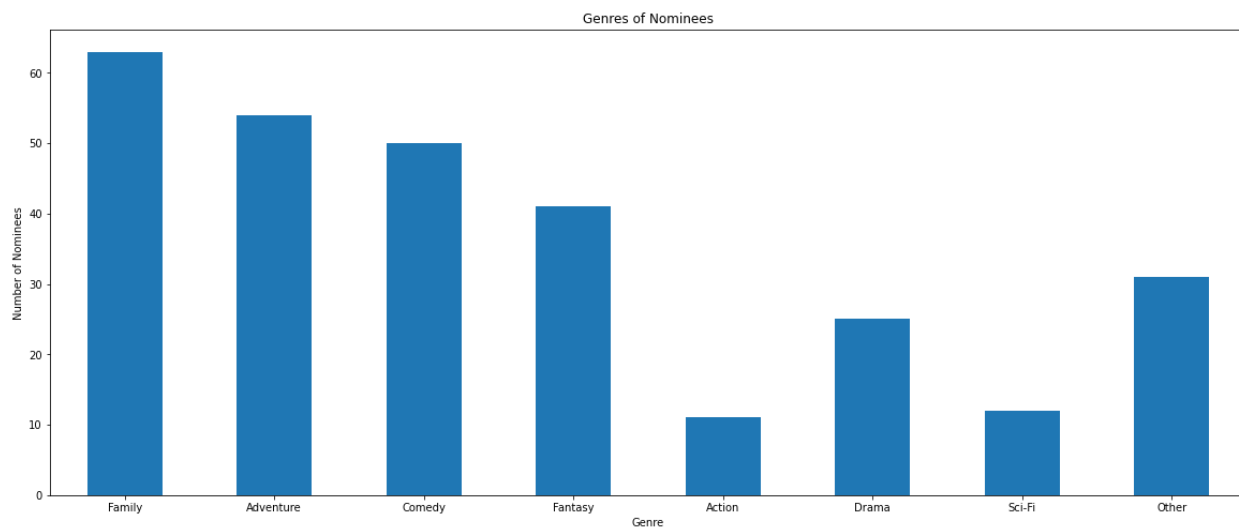
This seems to suggest that Crime movies are your best bet for an Oscar nomination, but maybe this data is misleading because relatively few Crime animated movies are released each year. In our training set, there are 97 total (versus 1050 Family).

The 5 most common genres of movies overall are: Family, Adventure, Comedy, Fantasy, and Action. Each of these represent over half of all movies.

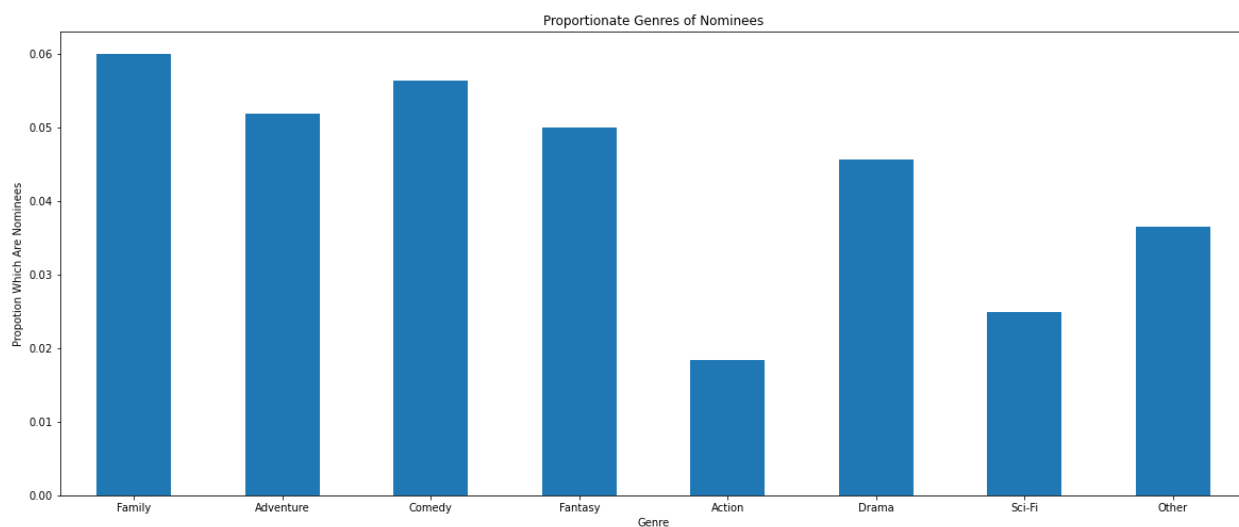
The 5 most common genres of nominated movies are: Family, Adventure, Comedy, Fantasy, and Drama.

The 7 most common genres of both sets are: Family, Adventure, Comedy, Fantasy, Action, Sci-Fi, and Drama. Since this incorporates both, I looked at the data separating out these genres, and classified the rest as Other.

Here are the genres of the nominees:



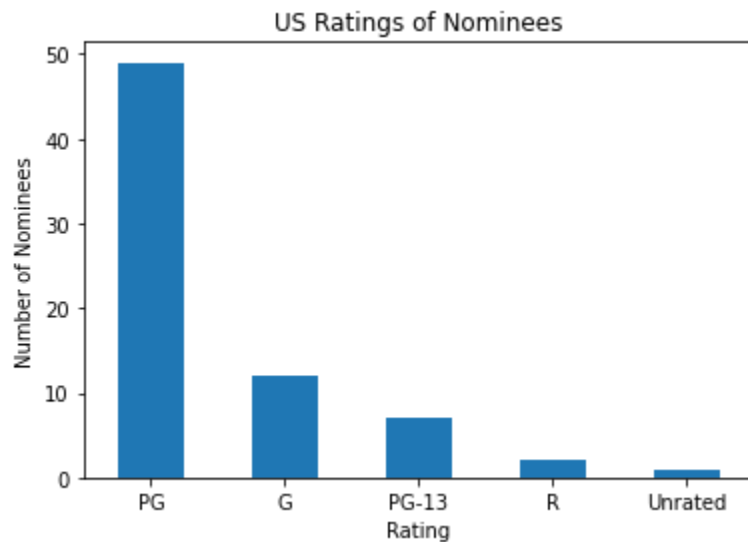
Here is the proportion i.e. the height of each bar is (number of nominees with that genre)/(total number of movies with that genre)



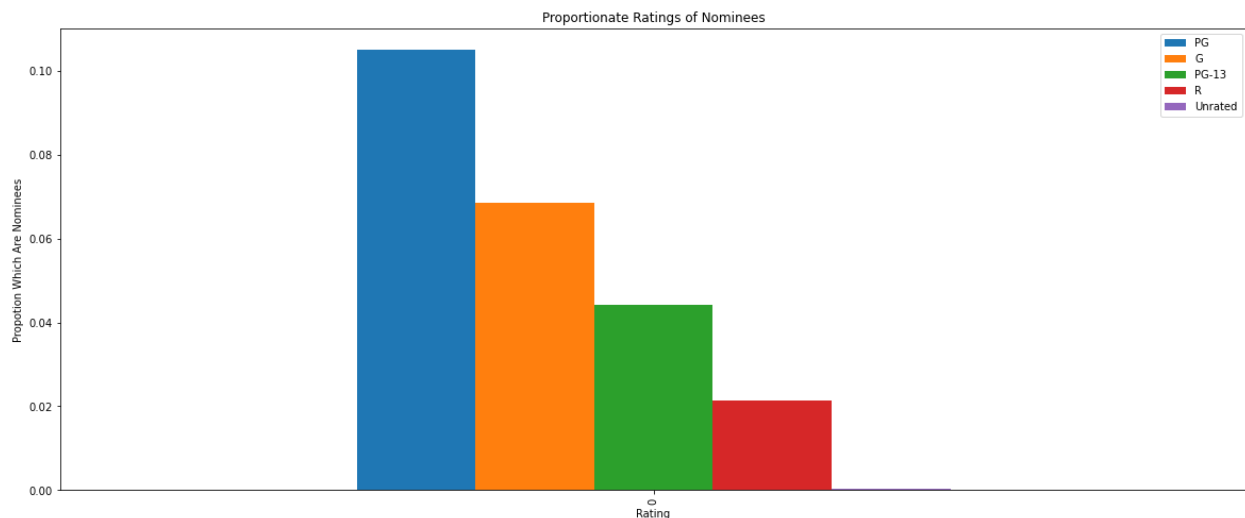
So, you're best off betting on a family movie, even though many, many family movies are released every year.

Certificates

Certificates (e.g. G, PG, PG-13, R ratings in the US) were hard to process, since there are different certificates for each country. Since the Oscars are based in the United States, I decided to focus on only movies that had available US ratings. Here is how the nominees break down:



Proportionate to the total movies by rating, we have (with a slightly messed up bar graph that I will fix later):



So, PG movies are the best. Overall, unsurprisingly, kid-friendly movies are more successful.