

What genre should we make,

and what budget should we plan for?"

Do big budget movies make a lot of money

To find out, we can analyze

production budget vs. worldwide gross.

Data Sources

Sources: TN Movie Budgets

TMDB Movies

Quantity: 1,641 movies

Time of Data: Released 1944 - 2011

Accuracy: Analyzed using ratios to

eliminate inflation

calculations

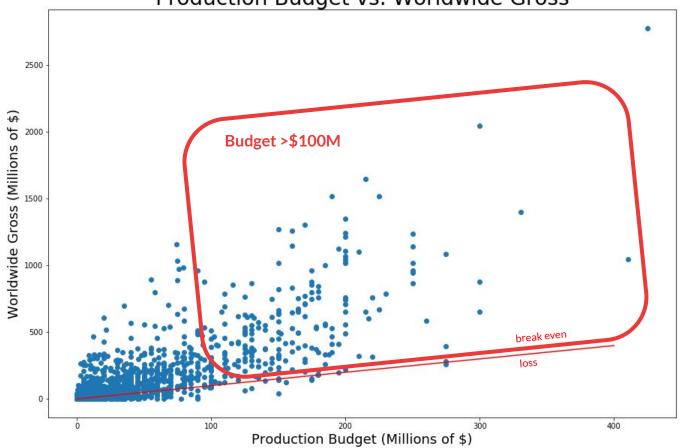
Reliability: Genres cross-checked

with imdb.com

Limitations

- All box office sales are down since
 Netflix started movie streaming
- No data on which movies are most popular for streaming
- Foreign films not considered
- Movies with more than one genre are counted in each genre
- Director & actor popularity affects profitability, not considered
- Release timing not considered

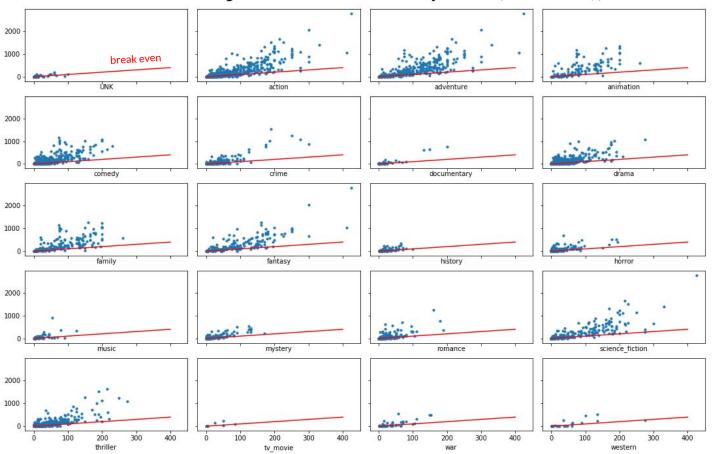
Production Budget vs. Worldwide Gross



Are any genres safe?

Let's look at the same graph, broken down by genre.

Production Budget vs. Worldwide Gross By Genre (Millions of \$)



Note: not adjusted for inflation

Not all genres are equal

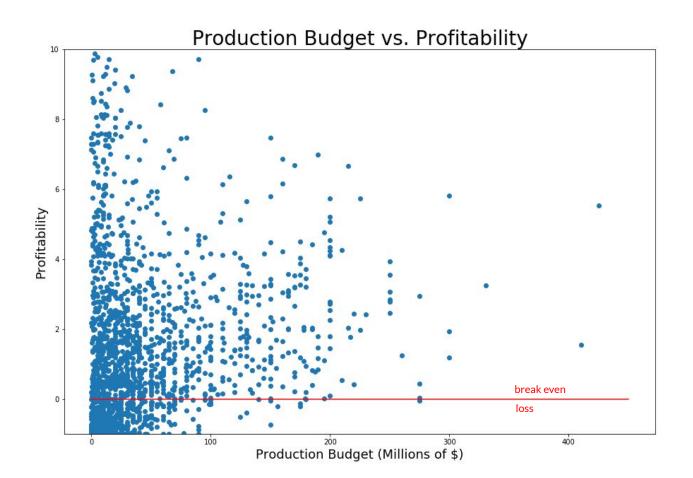
Are big-budget movies worth it?

We need a new metric.

profitability =

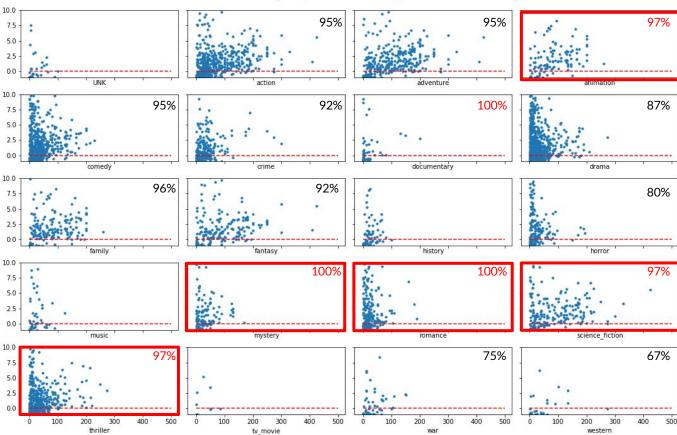
Gross revenue - budget

budget



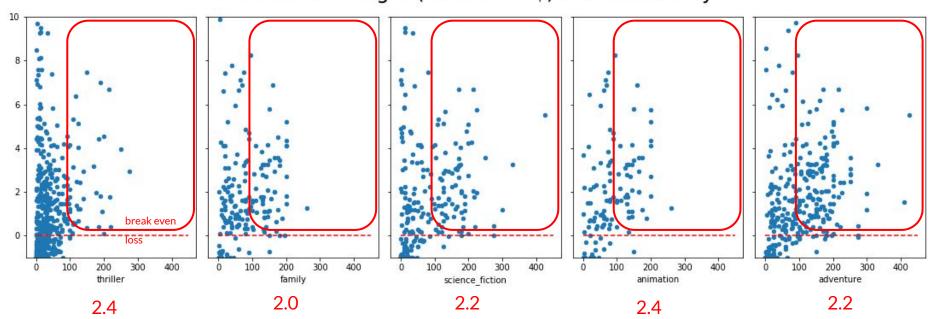
Production Budget (Millions of \$) vs. Profitability

Safe Genre = 97% of movies with at least a \$100m budget above break even line



Recommendation

Production Budget (Millions of \$) vs. Profitability



Mean profitability when budget is > \$100m

Safe Bets

SciFi, Animation, Mystery, Romance, Thriller > \$100M











Budget Revenue Profitability

\$160 M \$529M 2.3 \$100 M \$732M 5.3 \$109 M \$887M 7.2 \$150 M \$1.45 B 8.6 \$237 M \$2.79B 5.5

Future Research

What characteristics do Oscar-winning movies have in common?

What season is the best time to release each of the "safe bet" genres?

Which genre most consistently achieves a high profitability?

Why aren't live action family movies as popular as they used to be?

Is profitability affected by the following:

- Architecturally significant filming locations
- Plots related to current events