

Lights, Camera, Data:

Movie Statistics Over a Decade



Categories

Web Scraping

APIs

Popular Genres
over the decades

Box-Office
Performance

Budget and
Revenue
Over Time

Budget and
Revenue
Across Genres

Average Profit
Across Genres

Average Profit
Across Years

Adjustments for
Inflation

Best Picture
Nominees and
Revenue

Best Picture
Winners
and Revenue

Best Actor and
Revenue

Common Roles
Among Winners

Common Genres
Among Winners

Assumptions & Adjustments

All financial data converted to **2024 US dollars**

Erroneous budget and **revenue** data **discarded**

Median used to measure central tendency for budget and revenue

Most Popular Movie Genres





WINNER

Drama

HONORABLE MENTIONS

Action

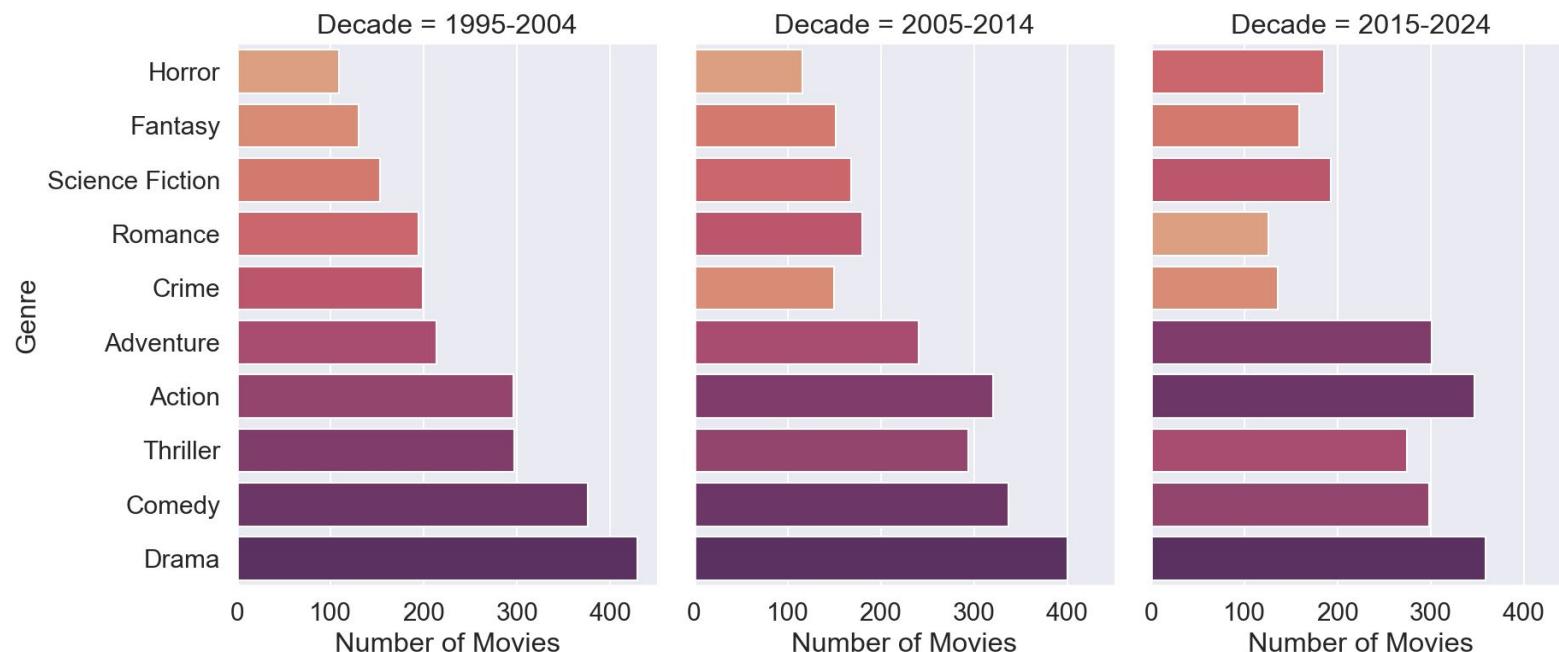
Adventure

DISHONORABLE MENTIONS

Comedy

Thriller

Top Movies by Genre and Decade

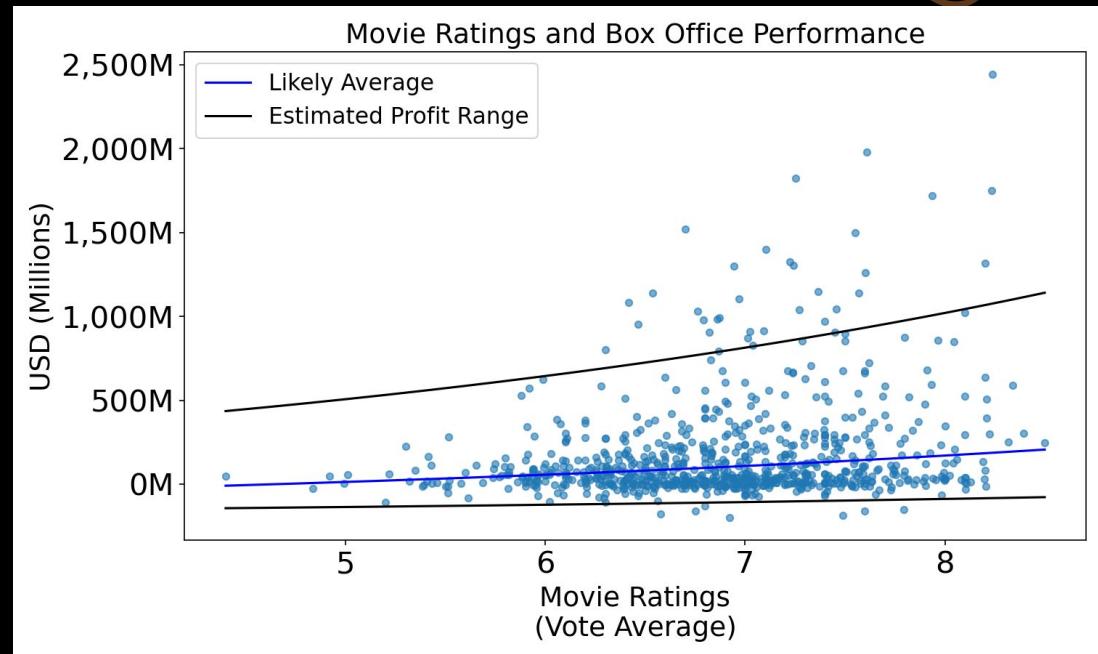


Movie Ratings and How They Relate to Box-Office Performance



Relationship between Movie Ratings and Box Office Performance

For about every one unit of
vote average increase,
there is about a 20%
corresponding profit
increase



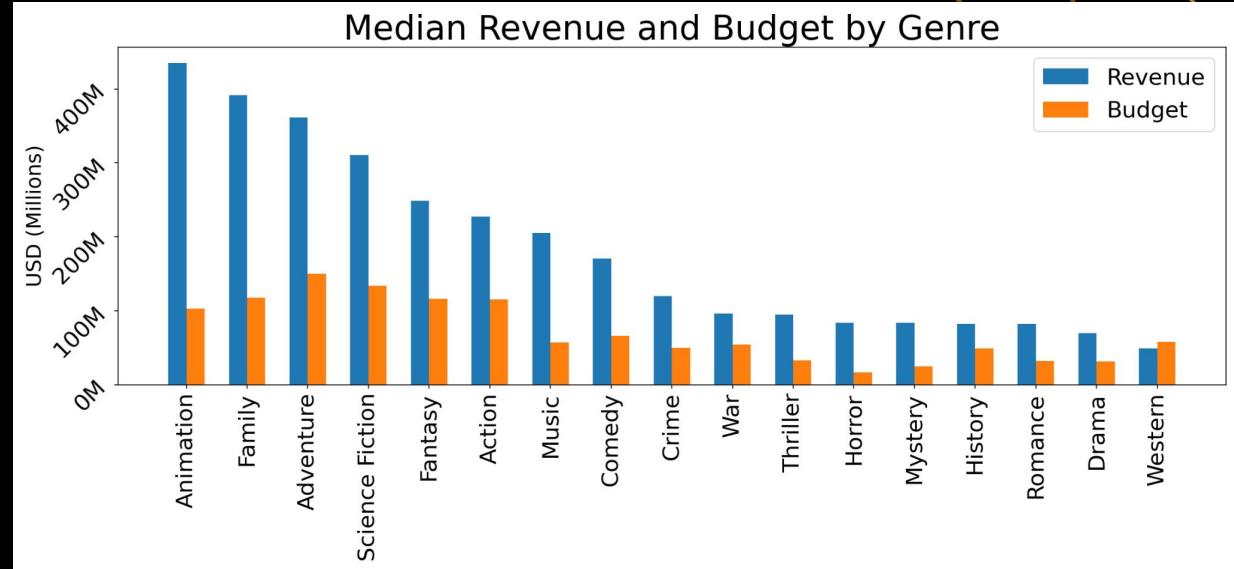
Budget and Revenue and How They Vary by Genre



Median Revenue and Budget by Genre

Animation, Family, and Adventure are winning on the revenue bar.

Dramas and Westerns over the past decade have not been doing great revenue-wise.



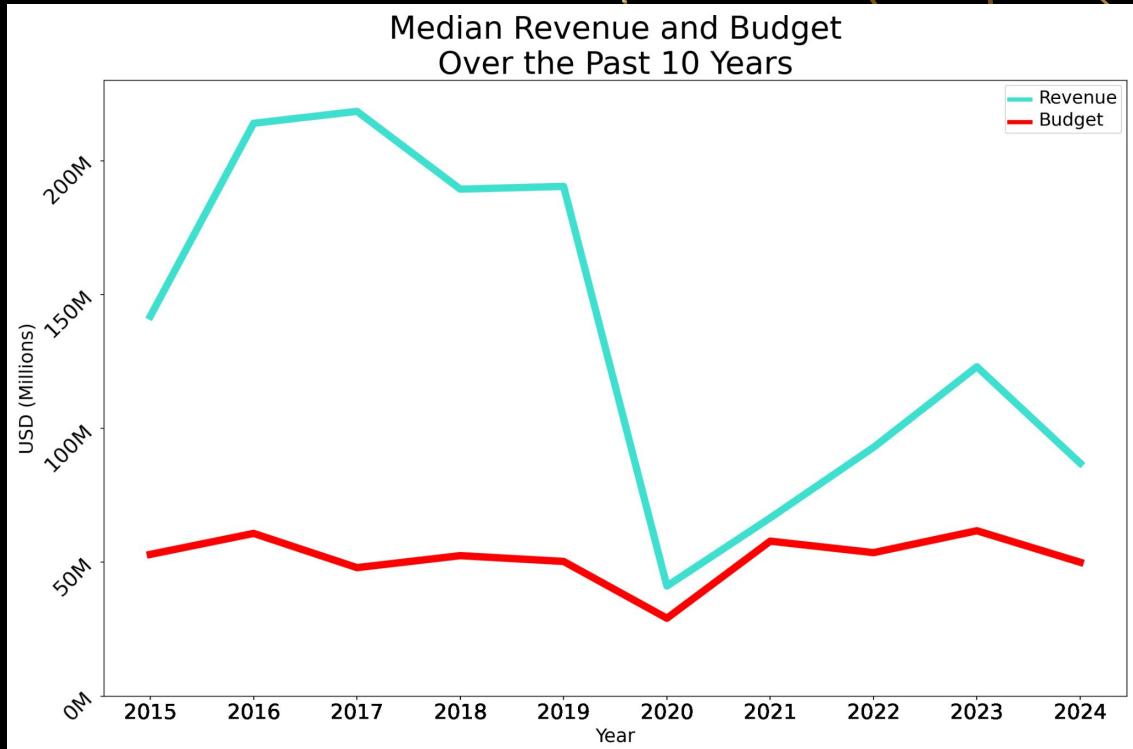
Budget and Revenue and How They Vary by Year



Median Revenue and Budget over the Past 10 Years

The median budget has remained reasonably stable.

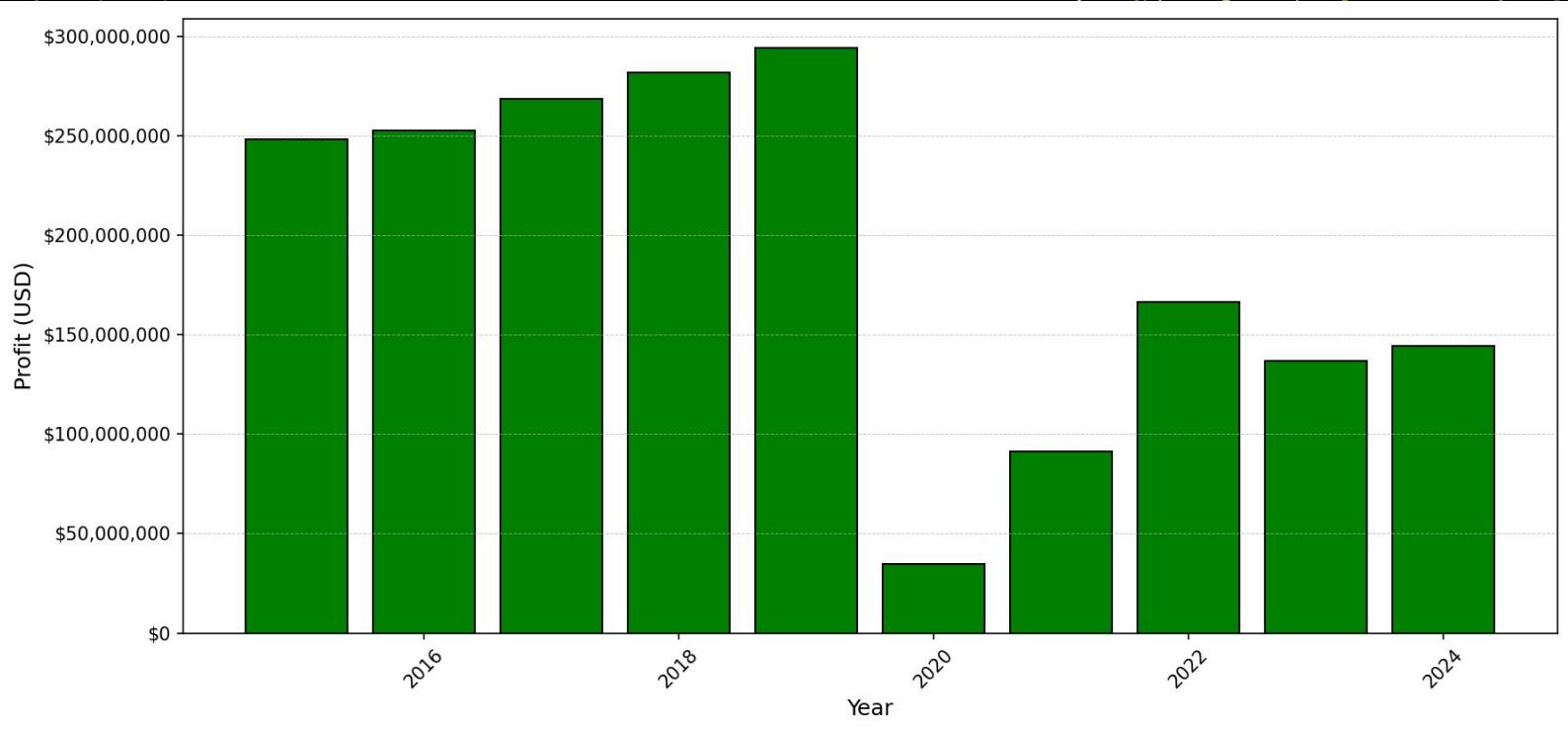
Revenue does not appear have quite bounced back after 2020.



Highest Profitable Year Award by Average



Average Movie Profit by Year



On average, movie profits were on the rise until 2020 and have yet to return to the previous profit margin trend.

Highest Profitable Year Award by Average



WINNER

2019

\$294,039,765.58

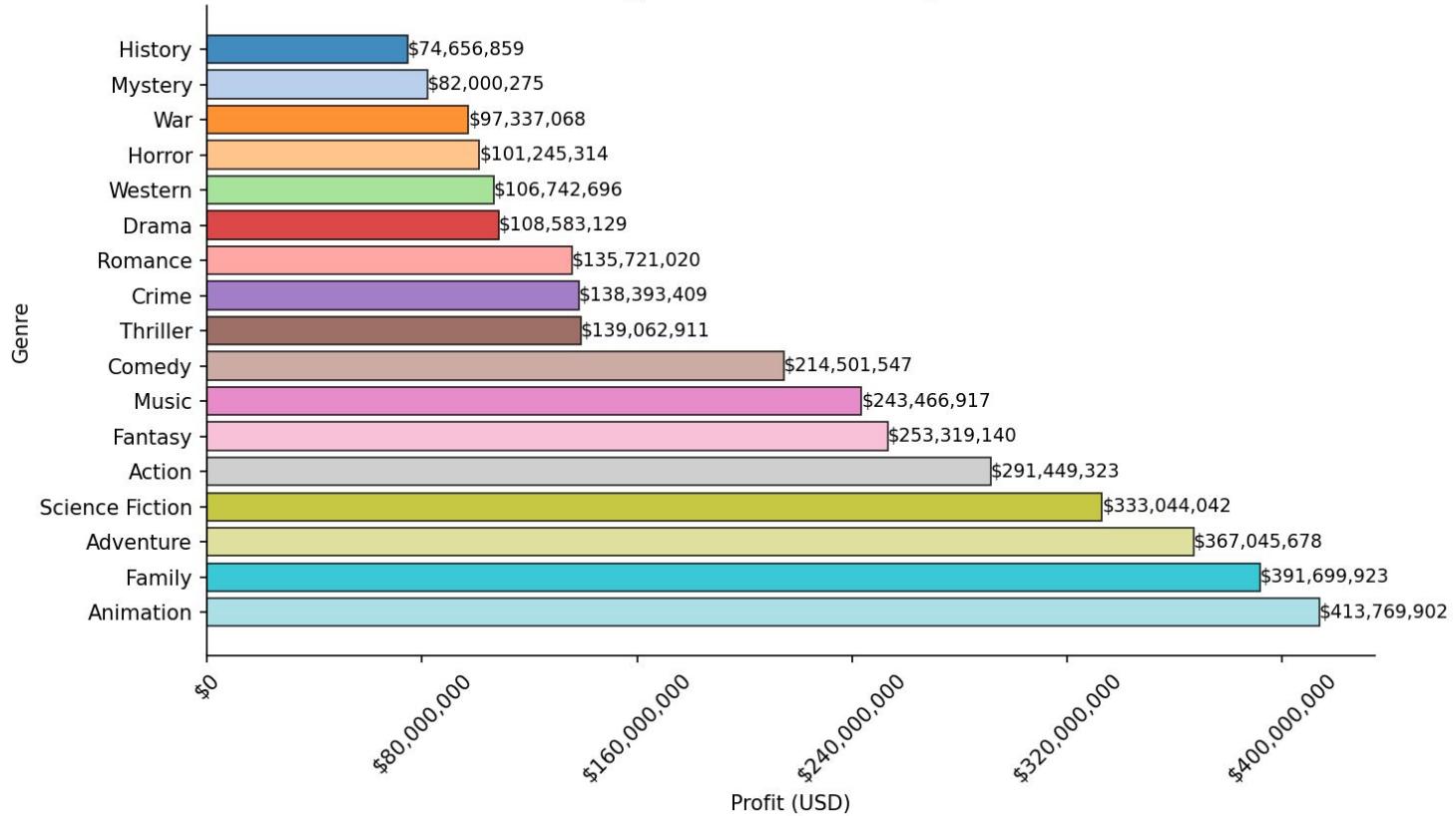


Highest Profitable Genre Award by Average



Average Movie Profit by Genre

Average Movie Profit by Genre



Highest Profitable Genre Award by Average



WINNER
Animation
\$413,769,901.90



Most Popular Movie Genres Among Oscar Winners





WINNER
Drama

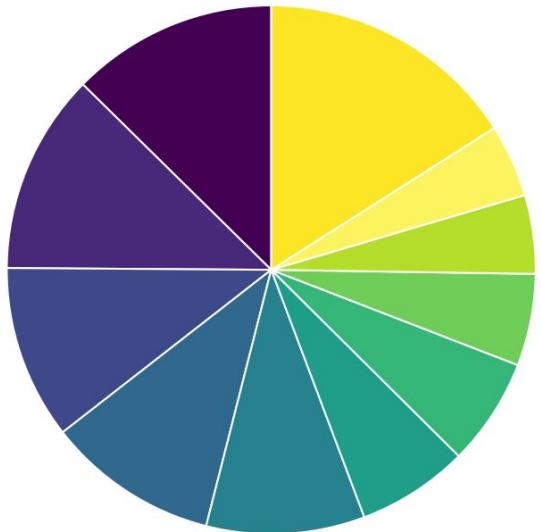
HONORABLE MENTIONS

Romance
History
Music

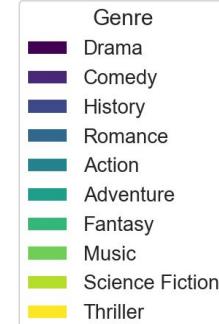
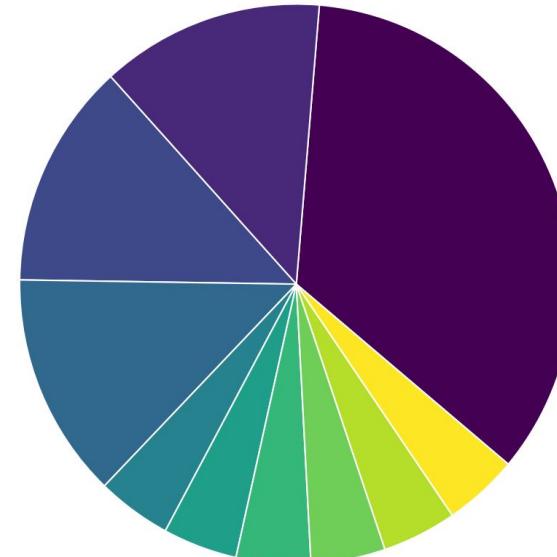
DISHONORABLE MENTIONS

Action
Adventure

Genre Distribution Overall, 2015-2024



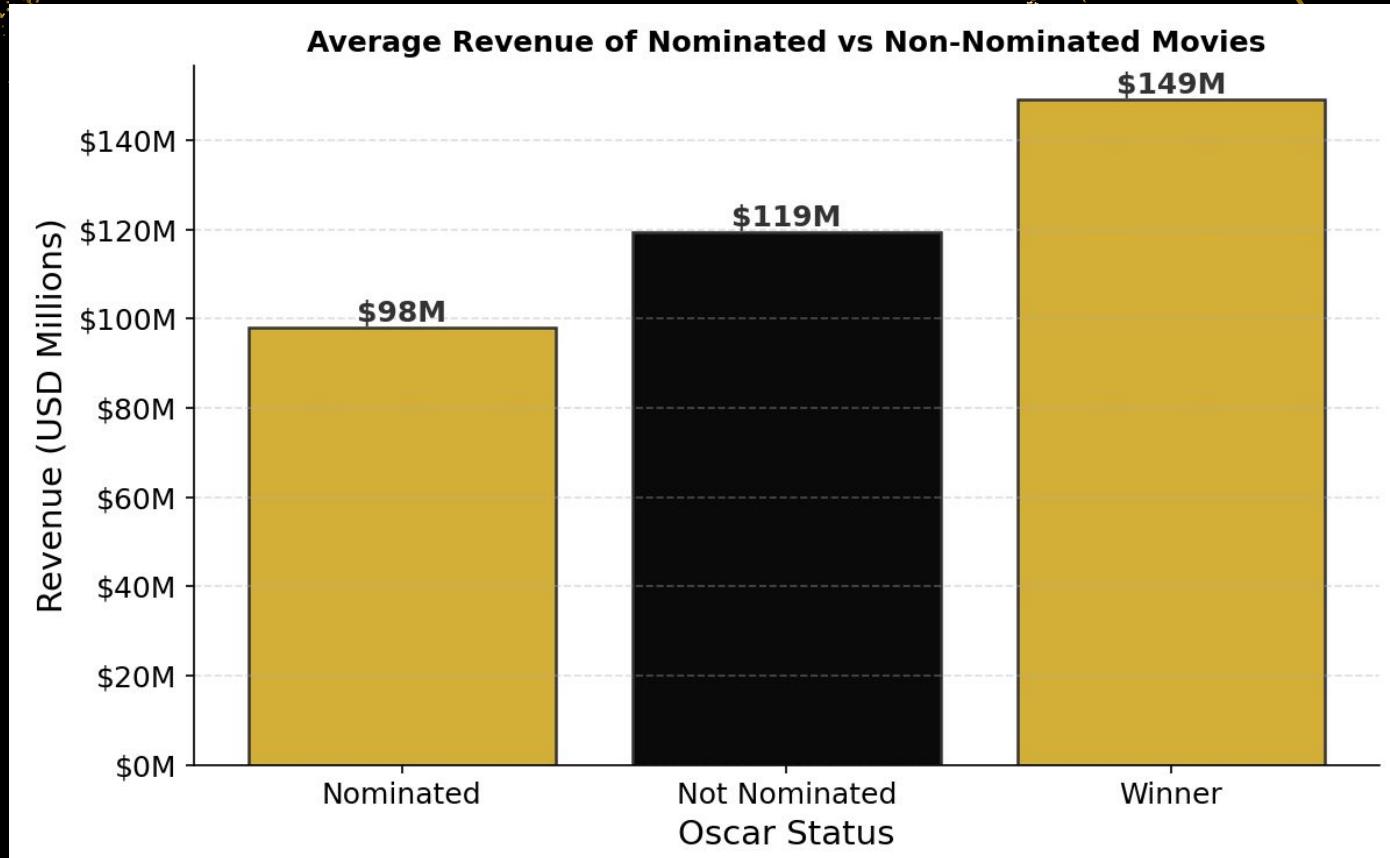
Genre Distribution for Oscar winning movies, 2015-2024



Highest Average Box-Office Revenue: The Winners vs. The Losers (aka Everyone Else)



Average Revenue of Nominated vs. Non-Nominated Movies



Highest Average Box-Office Revenue: Best Picture Nominees vs. The Winners



WINNER

Oscar Winners 2015-2024

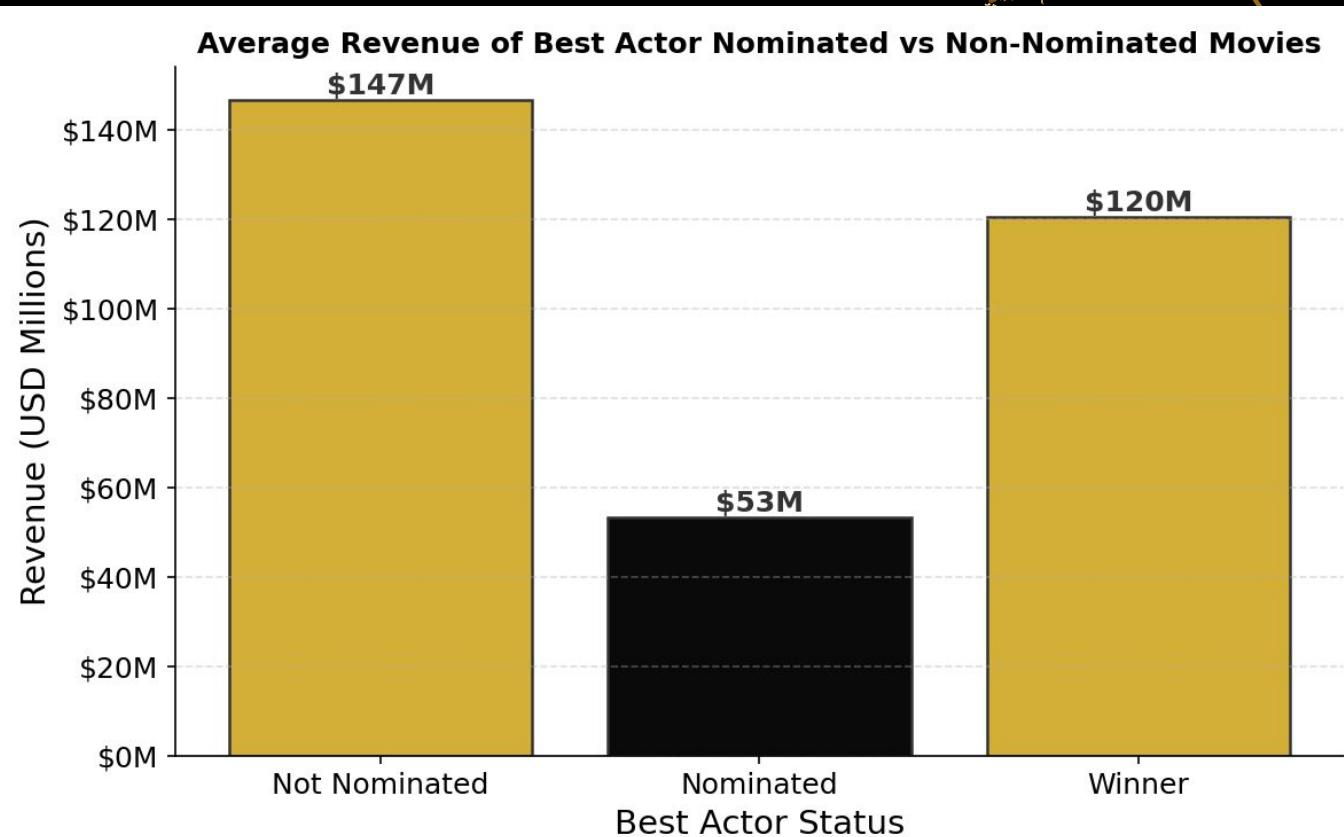
If a movie is nominated for Best Picture,
then it will likely increase the revenue by
\$175,100,000 when isolating genre.

When looking at the results for Best Picture
Winners, the indication was not significant
enough to draw a conclusion.

Highest Average Box-Office Revenue: Best Actor/Actress Nominees vs. the Winners



Average Revenue of Nominated vs. Non-Nominated Movies



Having a performer who was nominated for, but did not win, a Best Actor/Actress Award did not have a significant effect on revenue.

Within the same genre, a movie containing a performer who won a Best Actor/Actress Oscar is expected to make **\$182,300,000** more in revenue than a movie that did not.

Key Takeaways:

- Most Popular Movie Genre is **Drama**, including among Oscar Winners
- The higher the **movie rating** the higher the **profits**
- Certain **Genres perform better** at the Box-Office
- Movie theatres are not as full as they used to be since 2020, with **revenue** peaking in **2019**
- **Animation** was the most profitable genre in the last decade
- **Oscar winners** earned higher revenue

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