

Optimizations to Maximize a Movie's Profit

Presented by: Team RFC Dandelions



Business Problems: How to make a hit?

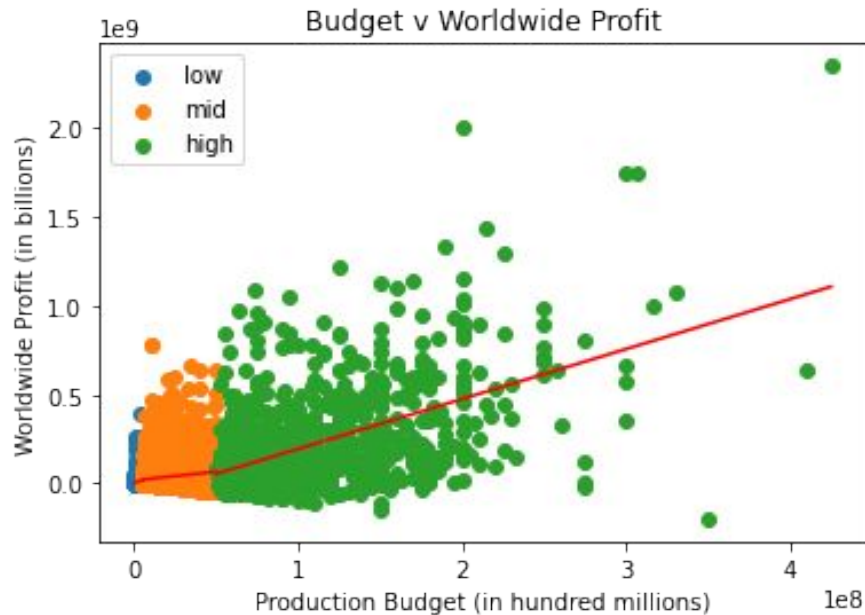
- Budget amount
- Actors & directors
- Genre
- Release date

* Metric of success: Worldwide Profit (WWP)

* Data from: IMDB and The Numbers

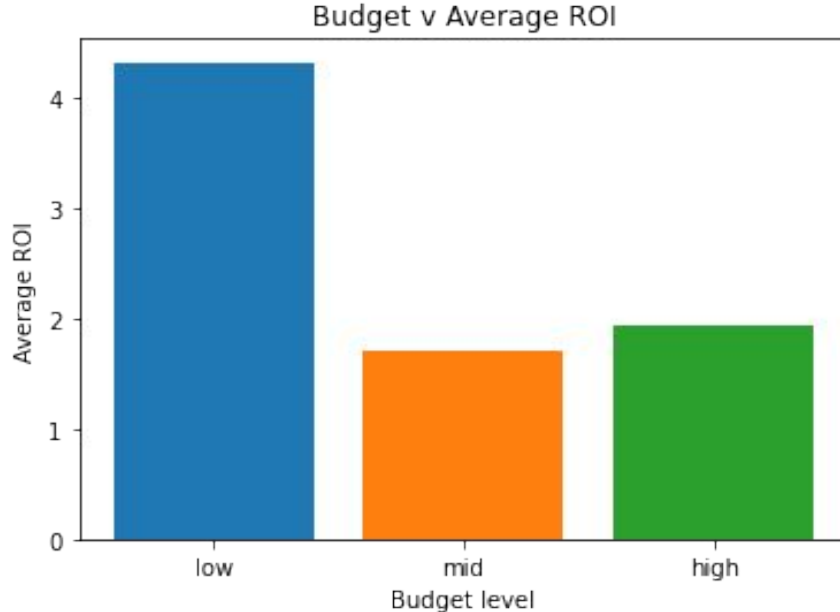
Budget & Profit

- Low-budget < \$5M < Mid-budget < \$50M < High-budget
- Stronger relationship with a higher budget

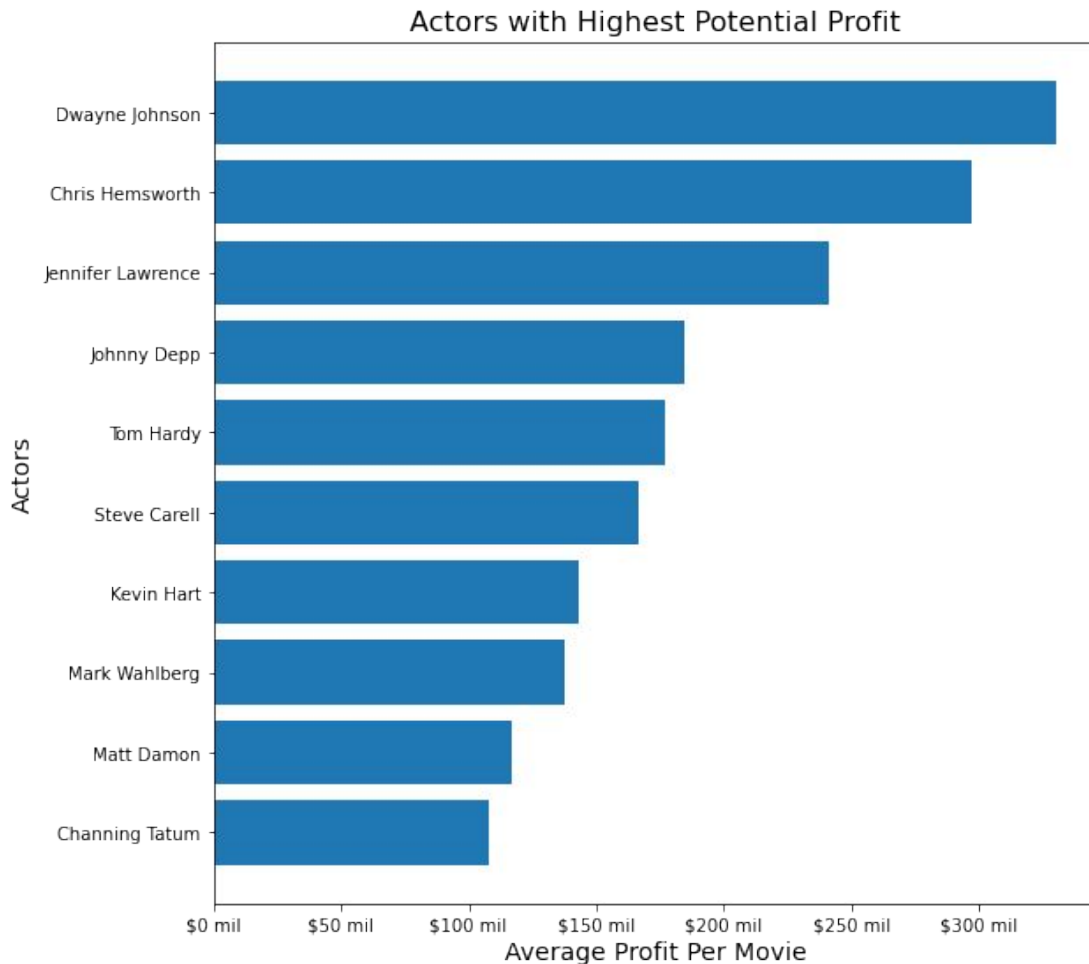


Budget & ROI

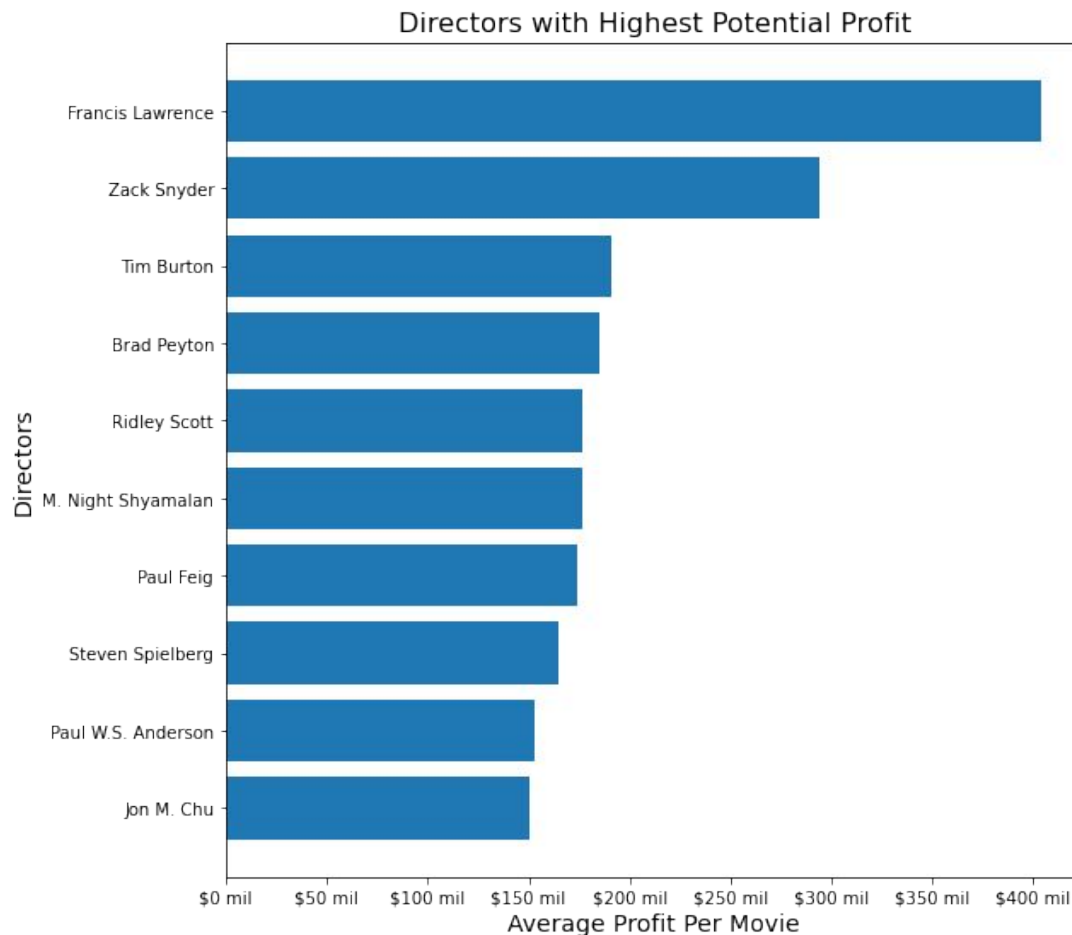
- As budget levels increase, maximum ROI decreases.
- Low budget films have greatest avg ROI, with several over 100x



Actors & Worldwide Profit



Directors & Worldwide Profit



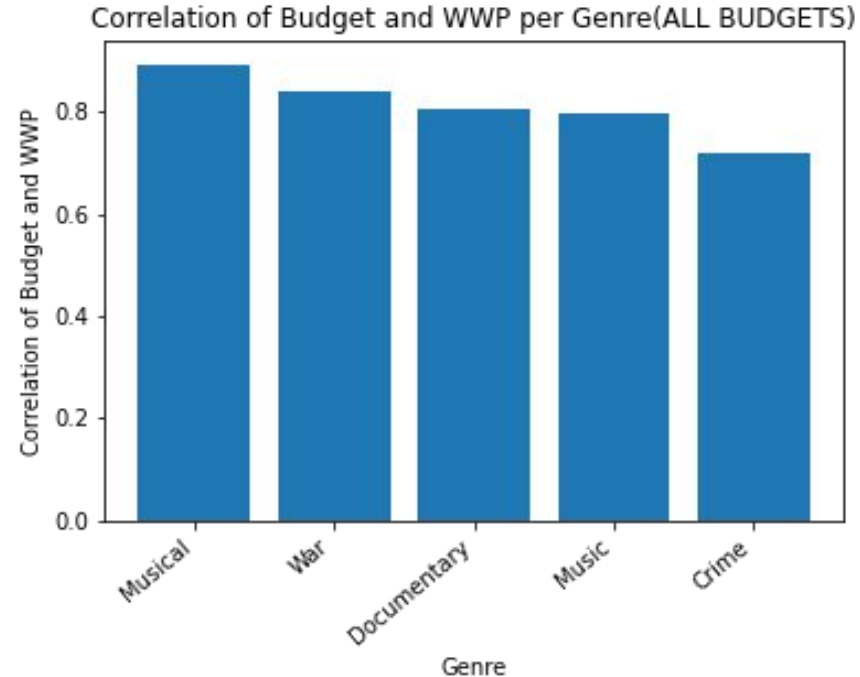
What genre of movie should we make?

- Data set covers:
 - Years: 2010 to 2018
 - Number of movies: 1541
- Best low/high budget genres
- Worldwide Profit (WWP) used as metric of success



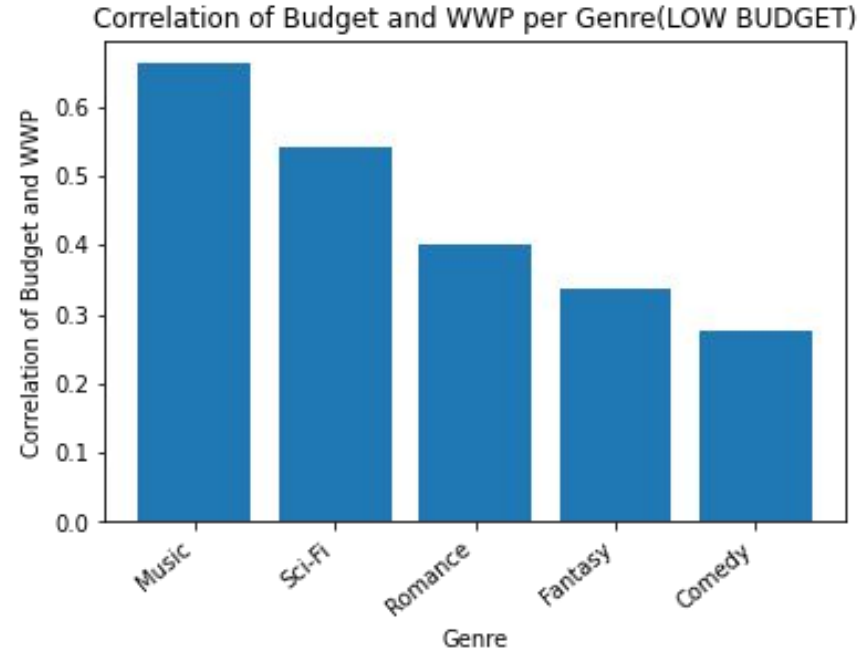
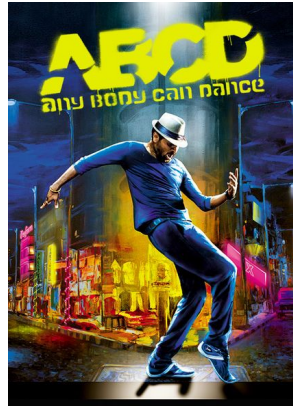
Best overall genre: Musical

- Across all investment amounts
- Domestic + International success
- Greatest profit per budget dollar



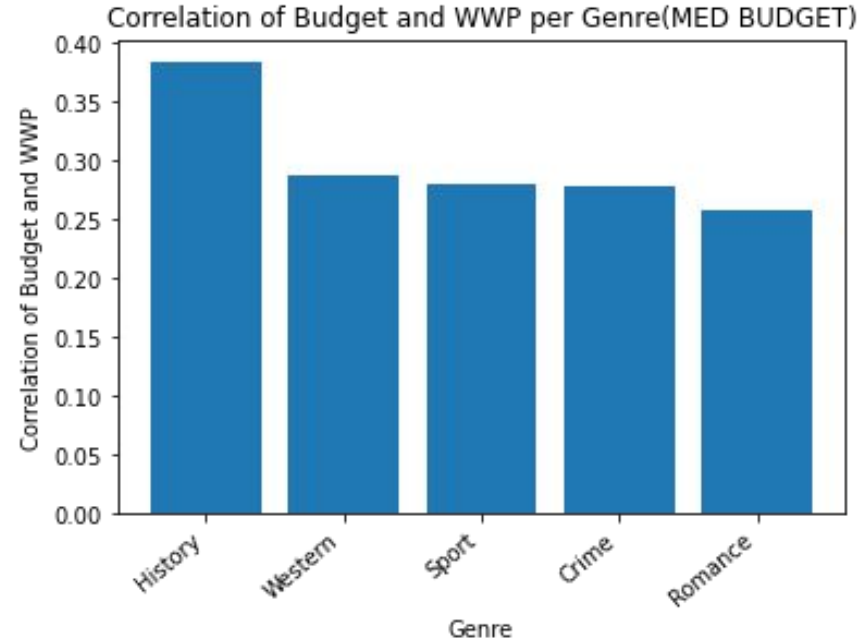
Best low-budget movie genre: Music

- Less than 5 million budget
- High production value at low production cost



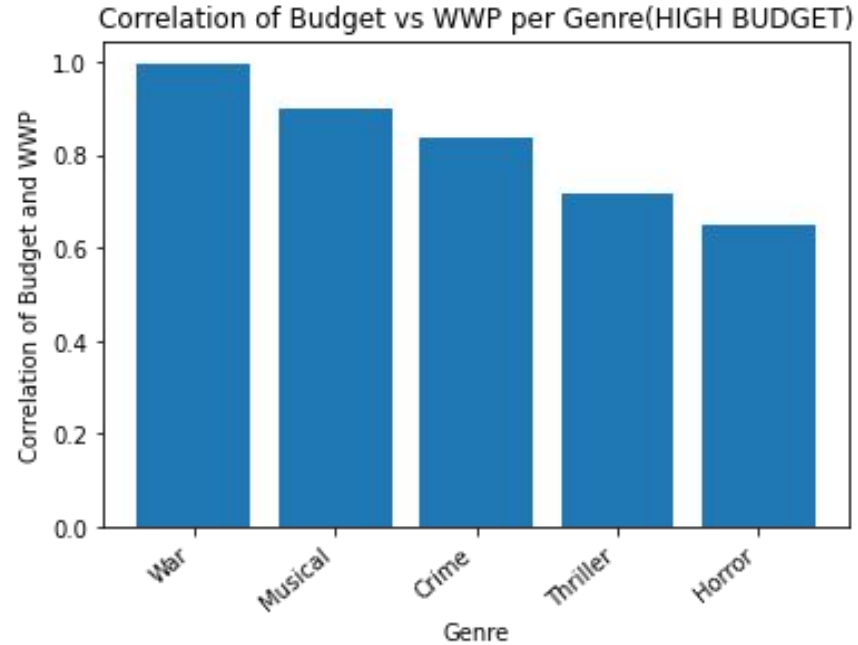
Best medium-budget movie genre: History

- Between 5 million and 50 million
- Dramatized, not documentaries



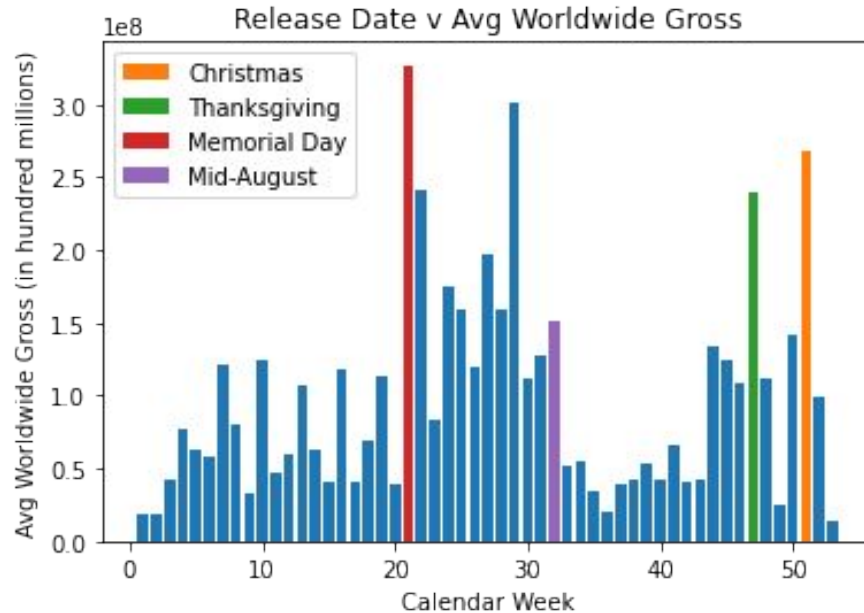
Best high-budget movie genre: War

- 50+million budget
- Moderate domestic success; great worldwide success



When is the best time to release a movie?

- Much more revenue generated between Memorial Day - Mid-August, in general
- Greater revenue around, Christmas, Thanksgiving



Factors for Movie Success

Budget

High-value
Genres

Talent

Release
Date

Less than 5M
(low-budget)

Music
(low-budget)

Actors
& Directors
with top
performance
metrics

June - Aug

At least 50M
(high-budget)

War
(high-budget)

Christmas,
Thanksgiving

Thank You!

Any questions?



Email: mitch.allison2@gmail.com

GitHub: [@mitchallison2](https://github.com/mitchallison2)

LinkedIn: linkedin.com/in/mitch-allison2



Email: rubicmatt@gmail.com

GitHub: [@mattrubic](https://github.com/mattrubic)

LinkedIn: linkedin.com/in/matt_rubic



Email: brendardeleon@gmail.com

GitHub: [@brdeleon](https://github.com/brdeleon)

LinkedIn: linkedin.com/in/brenda-de-leon