



# MICROSOFT ON THE BIG SCREEN

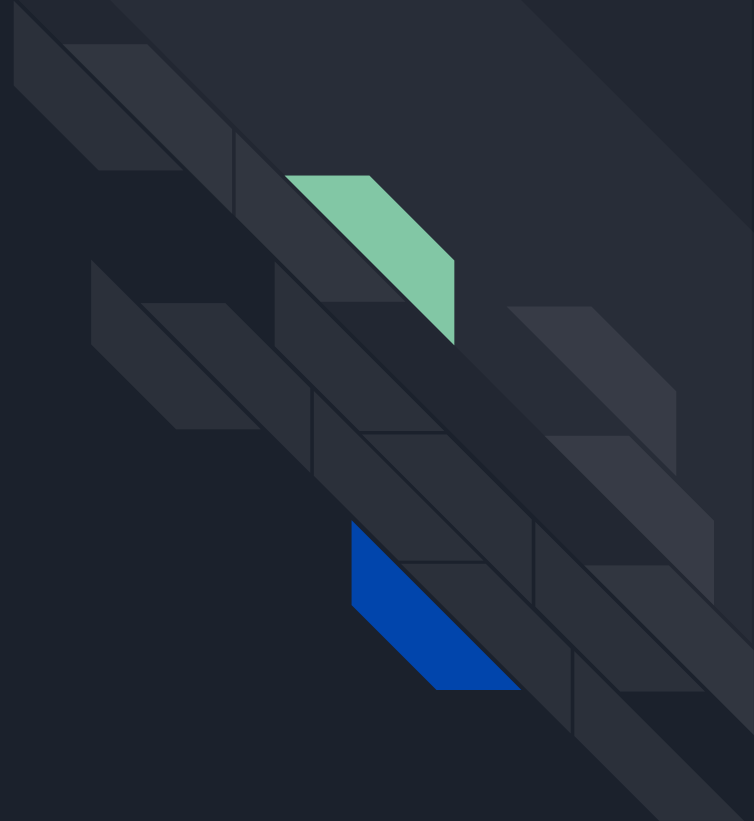
Emmi Galfo  
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Question:

Why are some movies better than others?

# OUTLINE

- Business Problem
- Data Sources
- Industry Stats
- Results
- Conclusion



# BUSINESS PROBLEM

Microsoft has decided to get into the movie industry! What do they need to do in order to be successful?



# DATA SOURCES



Rotten Tomatoes:  
Genre, Director, Runtime



The Numbers:  
World wide gross, Production budget

# WHAT IS “NORMAL” IN THE INDUSTRY?

- Average net profit: \$59 Million
  - Median net profit: \$8.5 Million
  - Min net profit: \$-200 Million
    - Movie: Dark Phoenix
  - Max net profit: \$2.351 Billion
    - Movie: Avatar
  - Net profit range: \$2551 Million
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- Average ROI: 3.8
  - Median ROI: 0.7
  - Min ROI: -1.0
    - Movie: Hayride
  - Max ROI: 1799.0
    - Movie: Deep Throat
  - ROI range: 1800.0



Does it take money to  
make money?



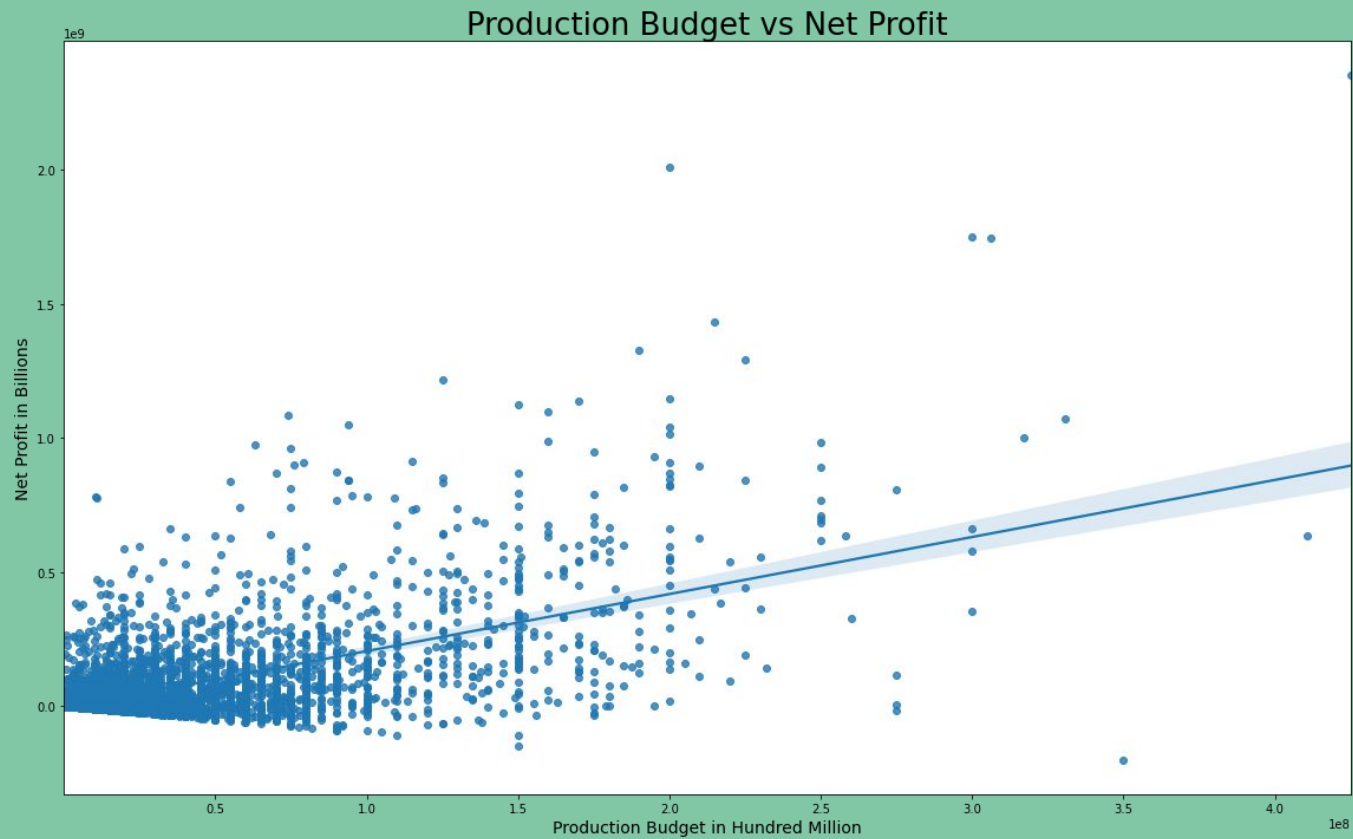


Figure 1. Higher production budgets yield higher net profits



Does it take money to see a  
return on investment?



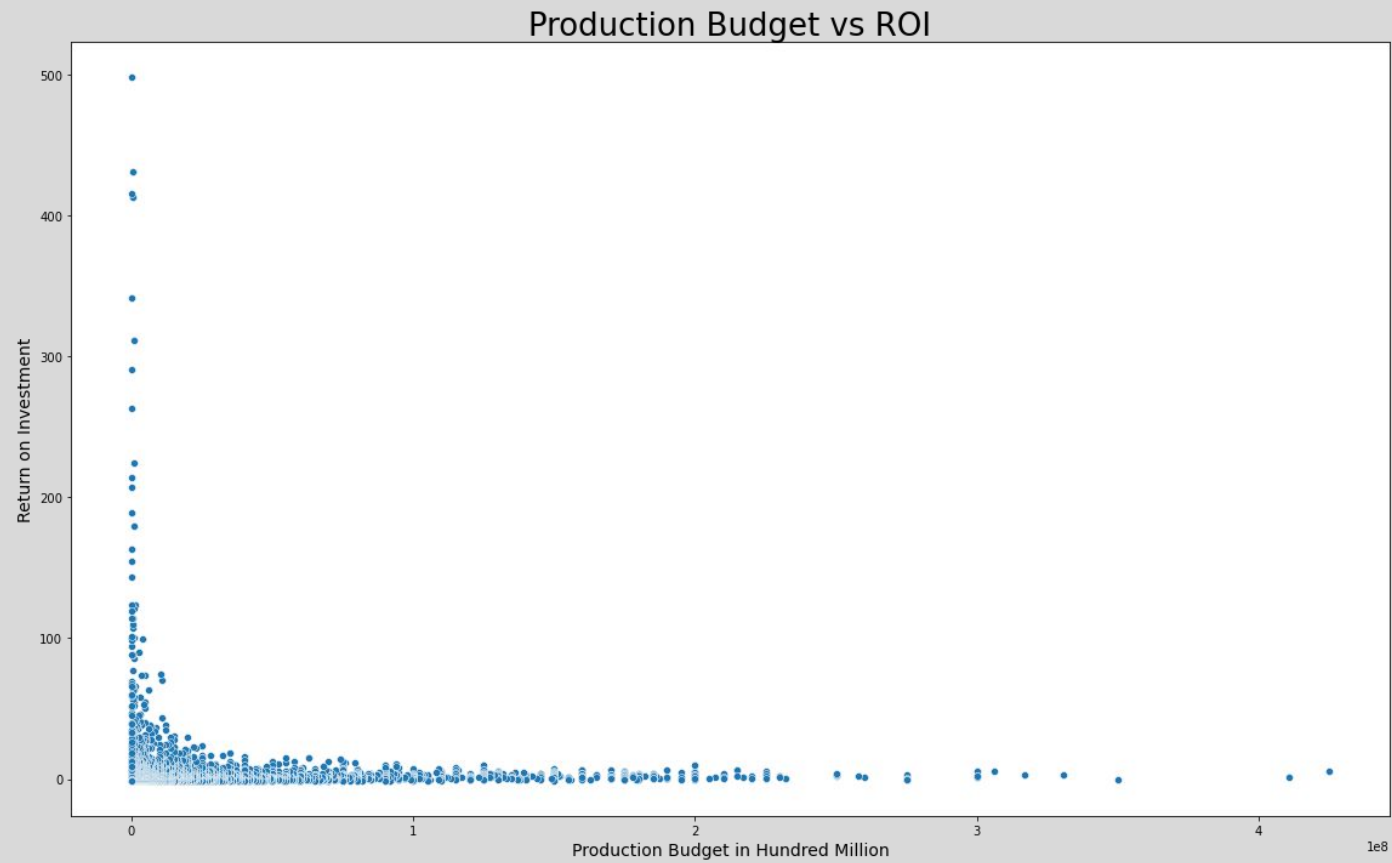


Figure 2. Lower budgets yield higher returns

How long should a  
movie be?



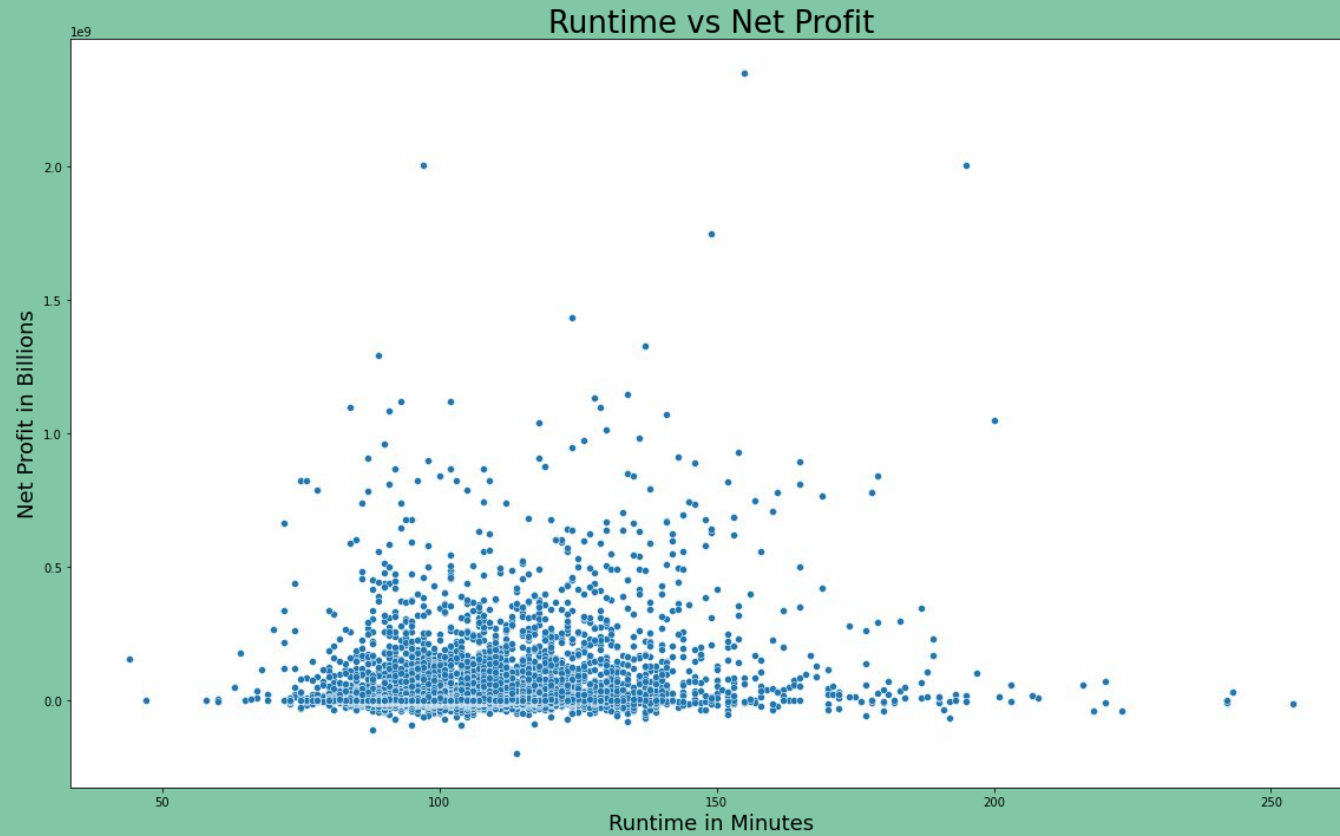


Figure 3. Scatter plot shows runtimes around 80 to 140 minutes have highest net profit.

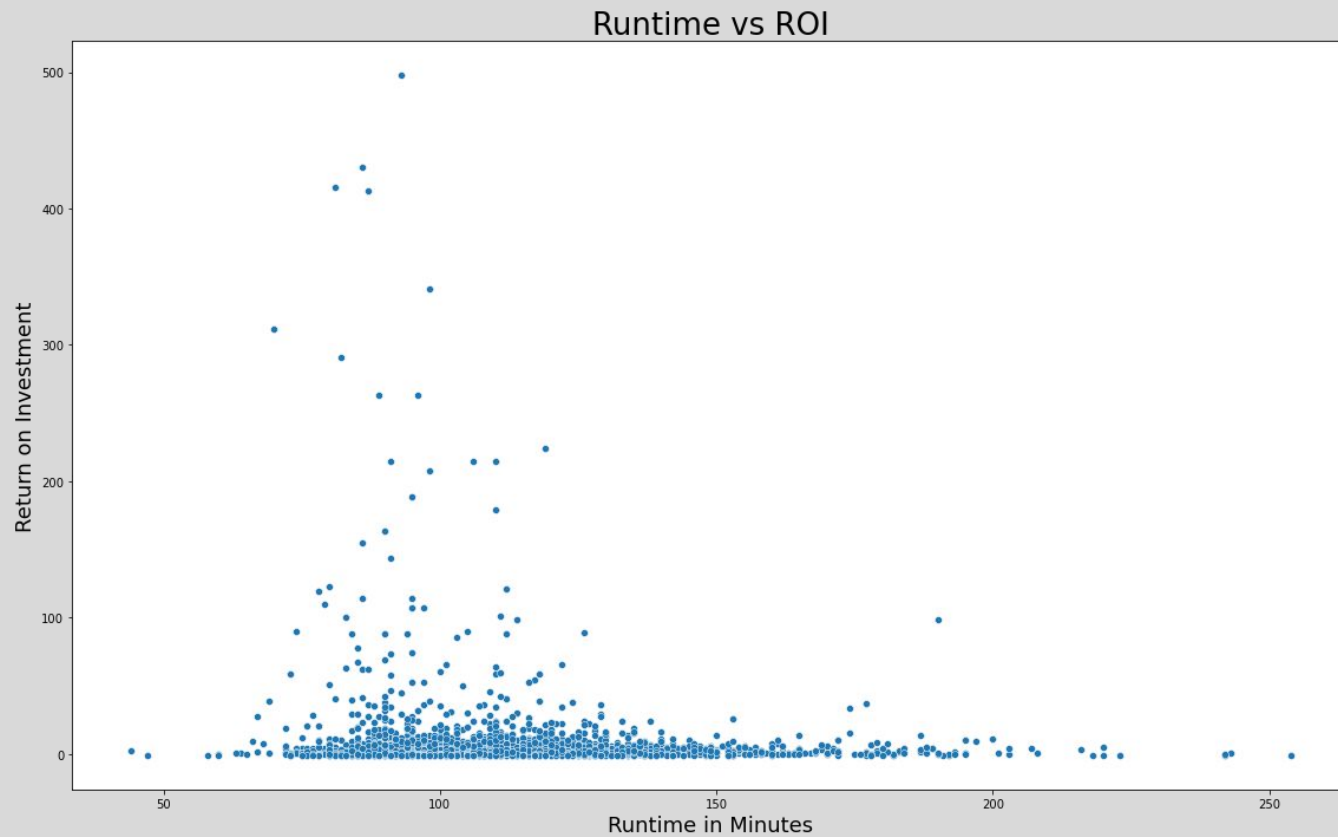


Figure 4. Runtimes clustered around 100 minutes have highest ROIs

Which directors produce  
successful movies?



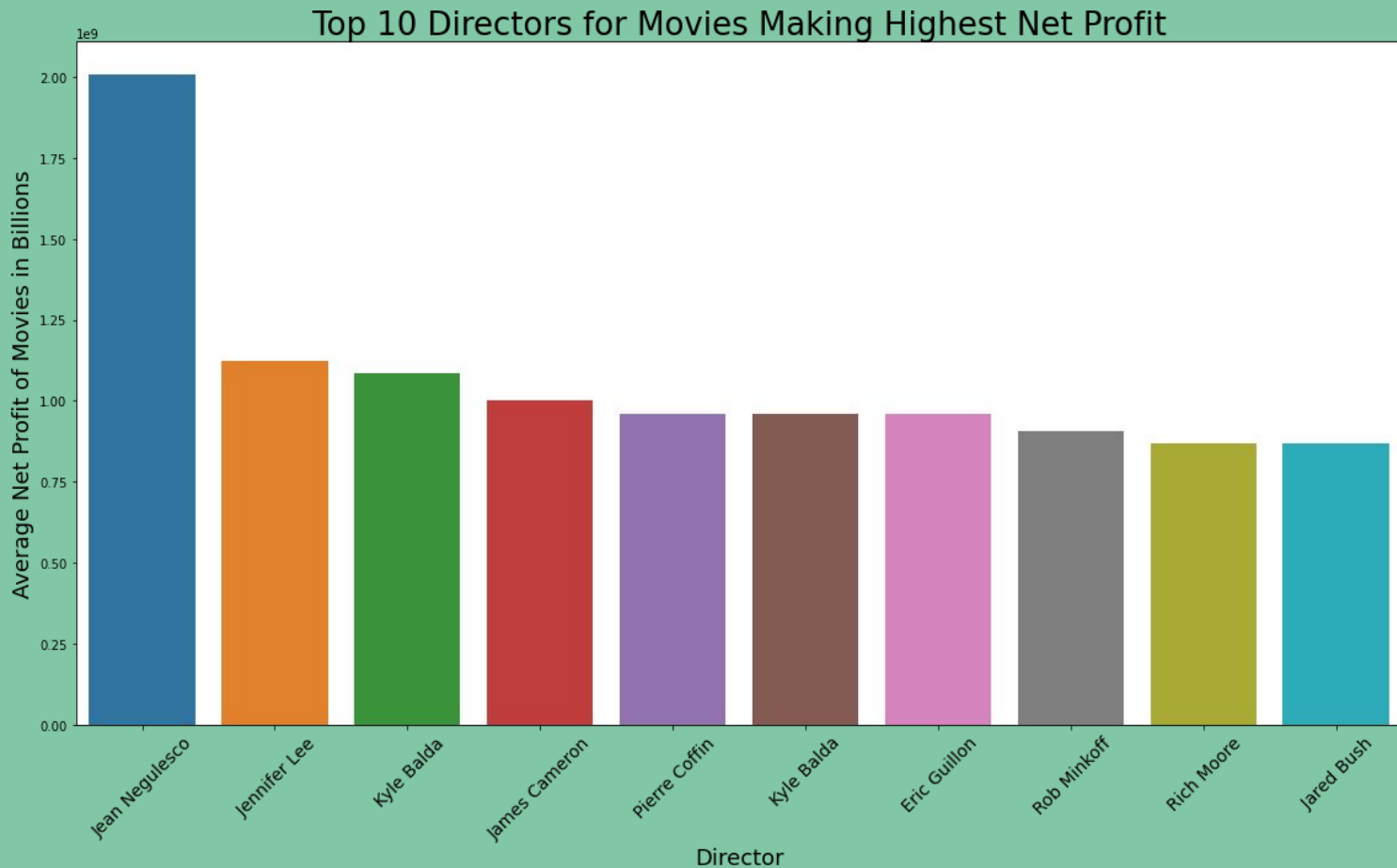


Figure 5. Movie directors whose movies made the highest average net profit.

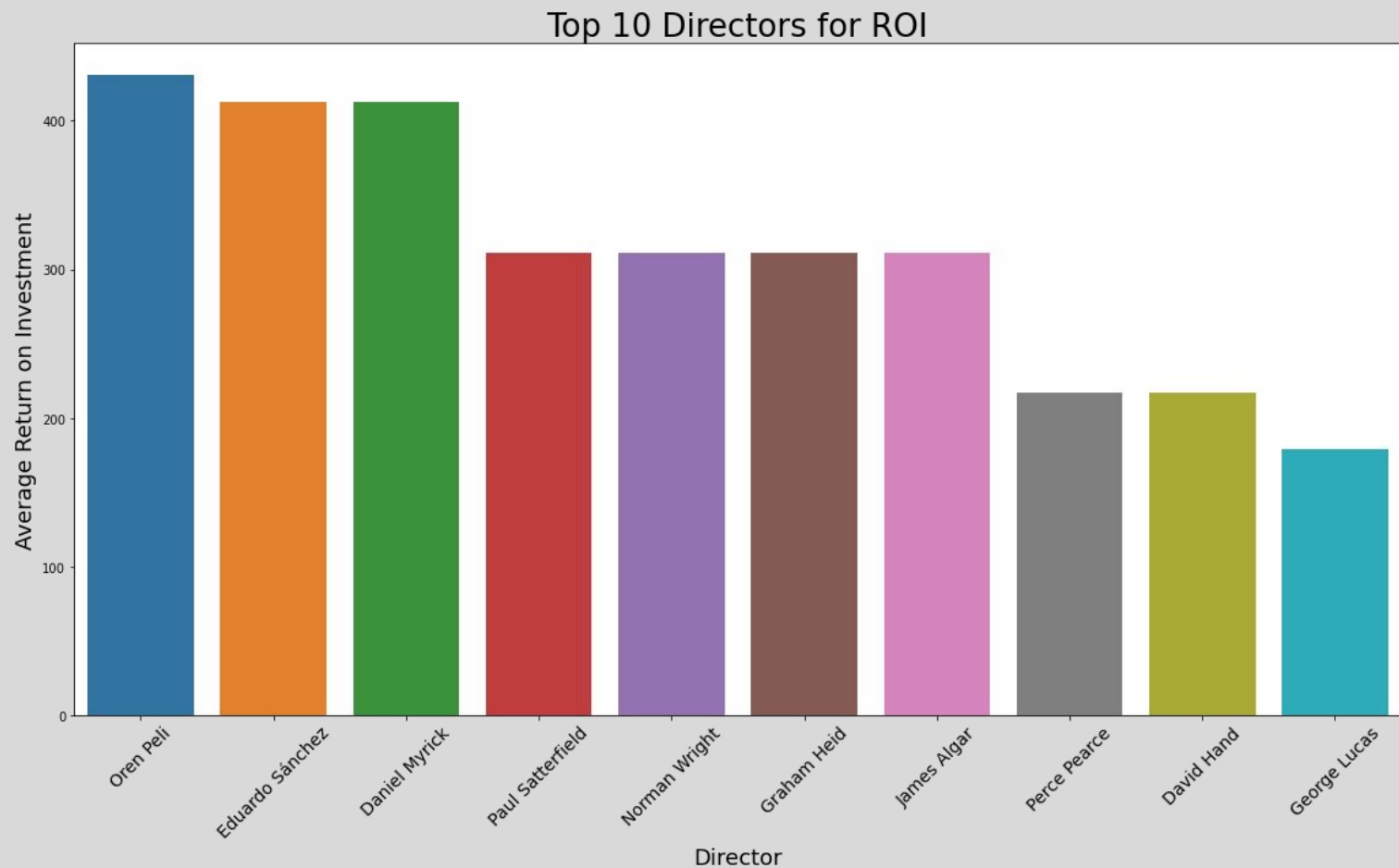


Figure 6. Movie directors whose movies made the return on investments.



What are the most profitable genres?



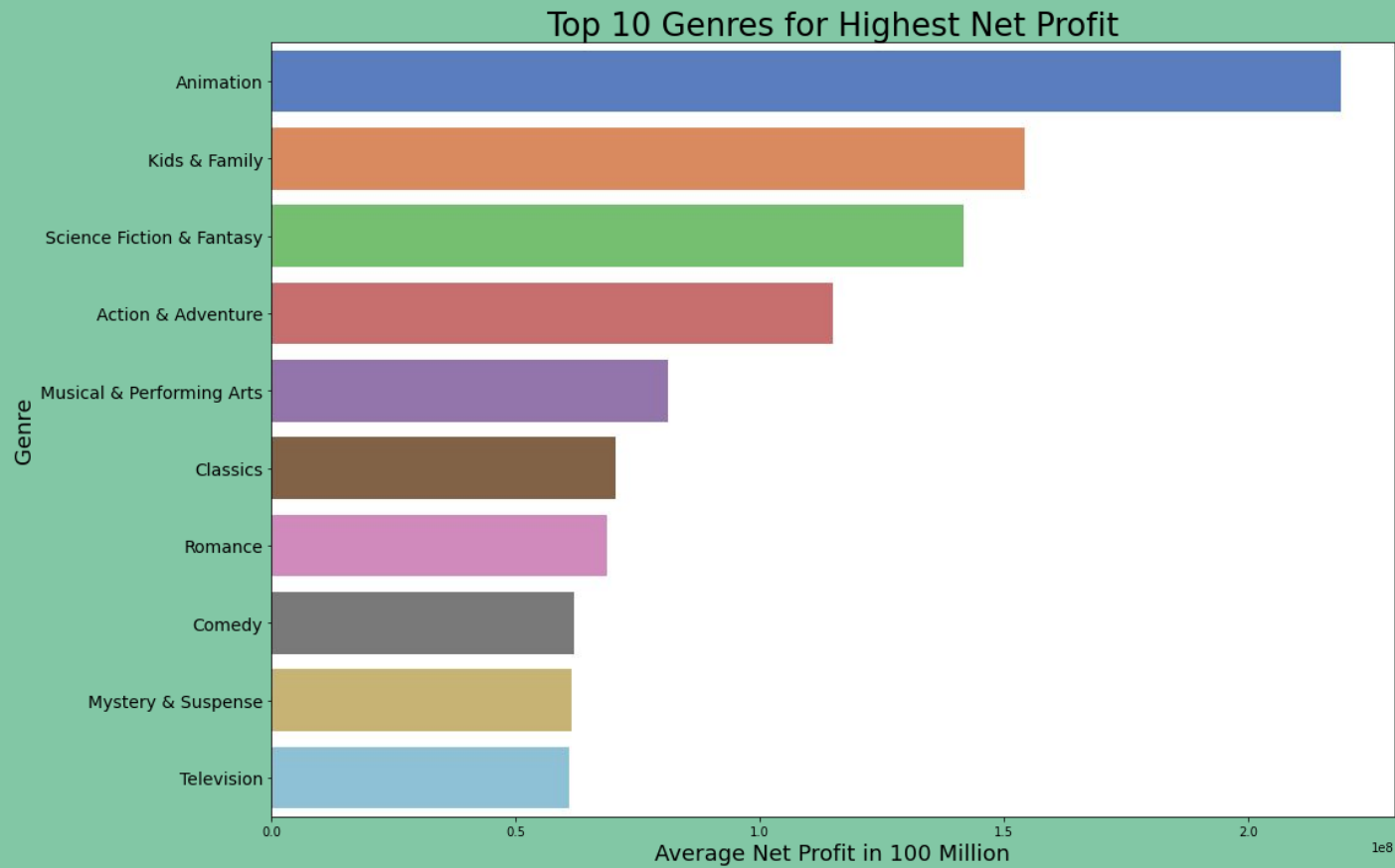


Figure 7. Movie genres that averaged the highest net profit.

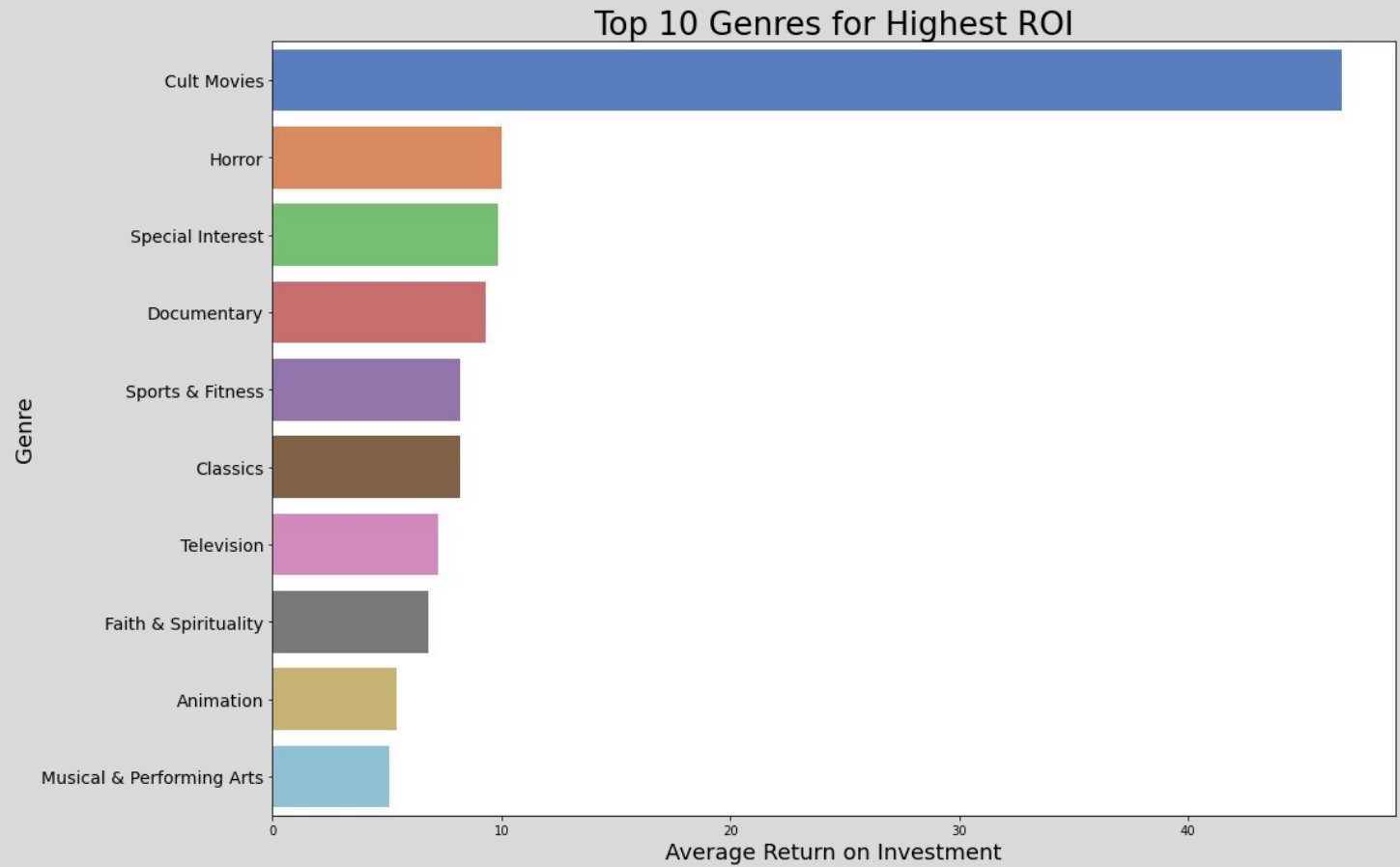


Figure 8. Movie genres that averaged the highest return on investment.

# CONCLUSIONS

## Guidelines to bring in more *net profit*:

- Higher production budgets
- Directors Jennifer Lee, Kyle Balda, and James Cameron
- Genres animation, kids & family, and fiction & fantasy
- Runtimes between 80 to 140 minutes

## Guidelines to bring in more *return on investment*:

- Lower production budgets
- Directors Oren Peli, Eduardo Sánchez, and Daniel Myrick
- Genres Horror, Special Interest, and Documentary
- Runtimes around 100 minutes

# LIMITATIONS

Due to time constraints, there are more factors that I would take into consideration before feeling confident about my recommendations.

Future projects should take into account standard deviation and inflation. Error bars should also be placed on bar graphs to help analyse data more effectively.

# Thank you!

Email: [emmi.galfo@gmail.com](mailto:emmi.galfo@gmail.com)

Github: @emmigalfo

Linkedin: [linkedin.com/in/emmi-galfo](https://www.linkedin.com/in/emmi-galfo)