

# Luther: Days of Future Prediction

by Kaushik



# Overview

Trying to Predict # of Days a Movie Will Be in Theaters.



= 140 days



# Business Case

- Strategic Planning
- Optimize Number of Movies

# Data and Models

Using Box Office Mojo and IMDB Data.

Different Models + Features

# Web Scraping



**Star Wars:  
The Force Awakens**

Domestic Total Gross: **\$936,662,225**

Distributor: <b>Buena Vista</b>	Release Date: <b>December 18, 2015</b>
Genre: <b>Sci-Fi Fantasy</b>	Runtime: <b>2 hrs. 16 min.</b>
MPAA Rating: <b>PG-13</b>	Production Budget: <b>\$245 million</b>

[Summary](#) [Daily](#) [Weekend](#) [Weekly](#) [Foreign](#) [Similar Movies](#)

**Total Lifetime Grosses**

<b>Domestic:</b>	<b>\$936,662,225</b>	<b>45.3%</b>
+ Foreign:	\$1,131,561,399	54.7%

= **Worldwide: \$2,068,223,624**

**Domestic Summary**

Opening Weekend: \$247,966,675 (#1 rank, 4,134 theaters, \$59,982 average)  
% of Total Gross: 26.5% [View All 24 Weekends](#)

Widest Release: 4,134 theaters  
Close Date: June 2, 2016  
In Release: 168 days / 24 weeks

**The Players**

Director: J.J. Abrams  
Writers: J.J. Abrams  
Michael Arndt  
Lawrence Kasdan  
Actors: John Boyega  
Daisy Ridley  
Adam Driver  
Oscar Isaac  
Andy Serkis  
Domhnall Gleeson  
Max von Sydow

**Related Stories**

5/10 Disney Makes History, Topping \$1 Billion in Domestic Just 128 Days

2/28 The 'Gods of Egypt' are No Match for 'Deadpool', \$285+ Million Domestically

2/25 'Gods of Egypt', 'Triple 9' & 'Eddie the Eagle' Hit 'Deadpool' Threepoints

2/14 'Deadpool' Smashes Box Office Records On Way to Worldwide Opening

2/11 Updated: 'Deadpool' Targets #1 Opening Over 'Hail, Caesar!' and 'Zoolander 2'

2000+ Movies!!!!

# Data Analysis

Consolidate, Classify, Clean, Correlate

## Feature Selection

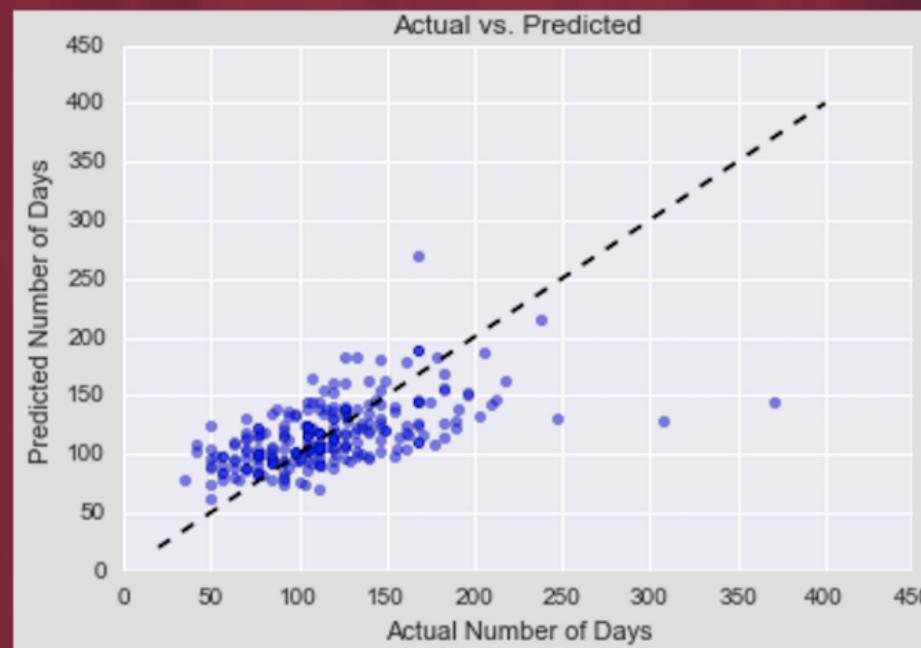
- Take out Gross
- Surprise!

PG has high correlation

R has a negative correlation

# Analysis

Model Results:  
R-Square = 0.396



## Future Considerations

- Actors, Directors, etc. (other variables)
- Didn't Use Domestic Gross
  - Could use other variable to predict
- Separate by Genre early, and create separate models

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