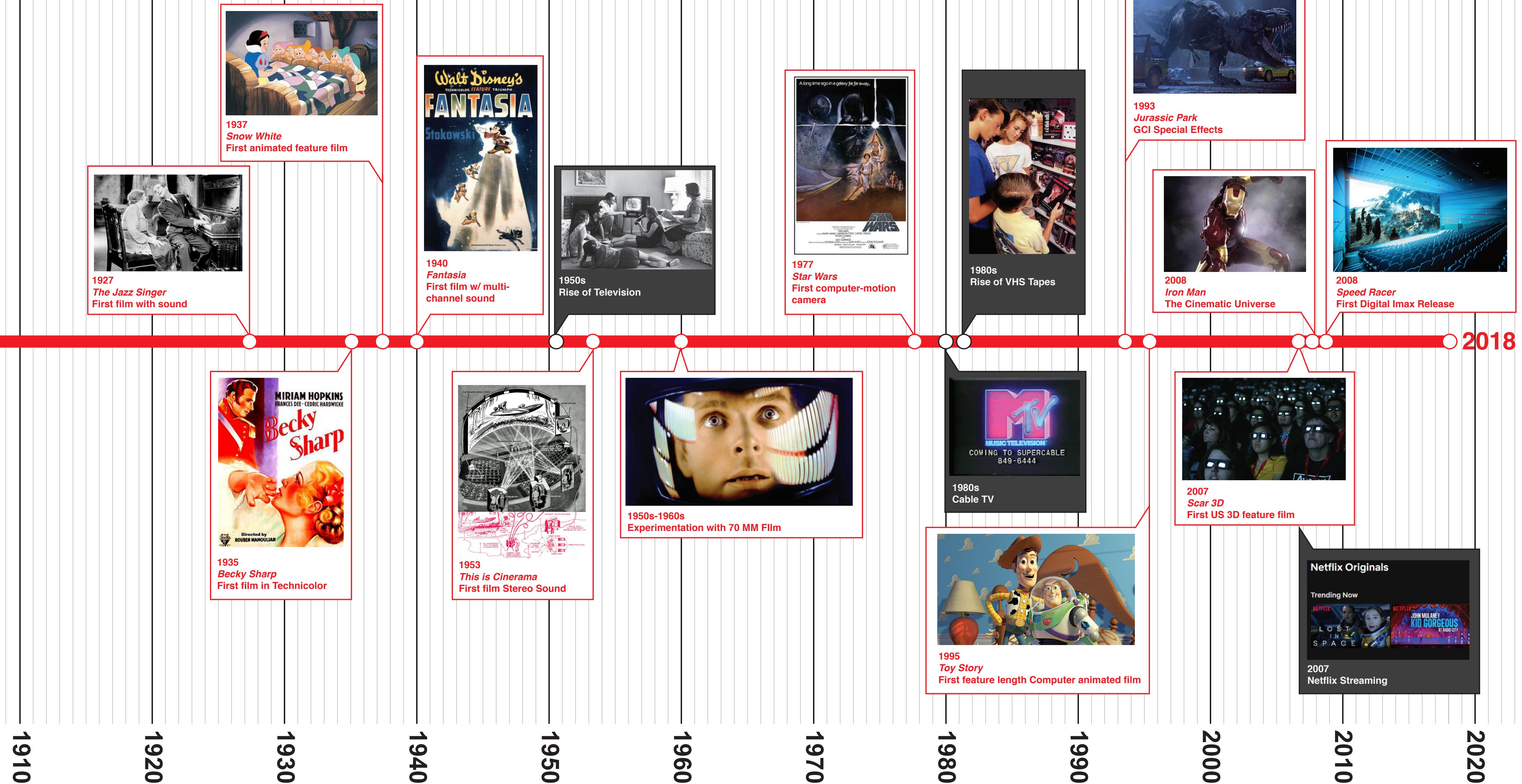


October 12, 2018
Daniel Hui
Project 2



The American
Cinema
Through Data

Cinema + Technology Timeline



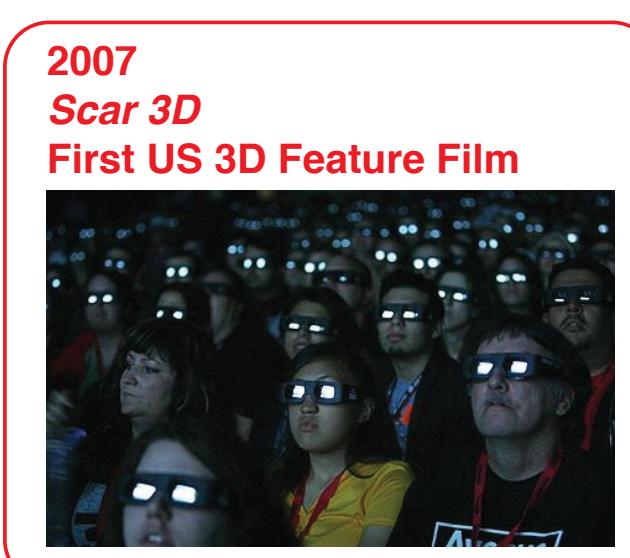
Box Office Timeline Timeline

Box Office **Mojo**

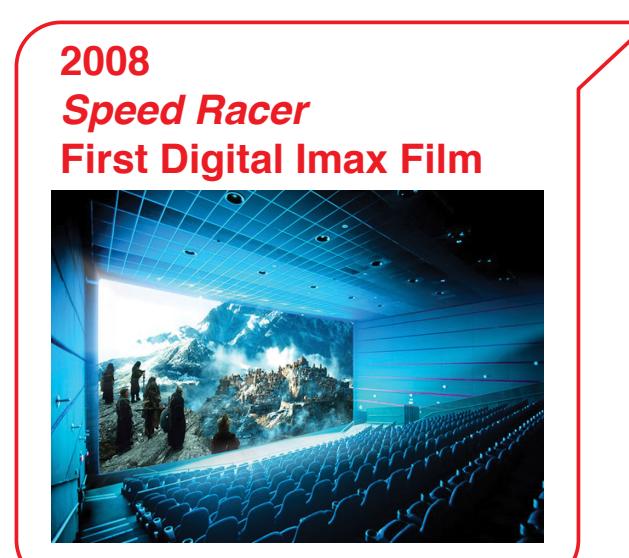
American Cinema Through Data



**Cinematic
Universes**



3D



IMAX

2017
Bigger Than Big
2008

Yearly Box Office

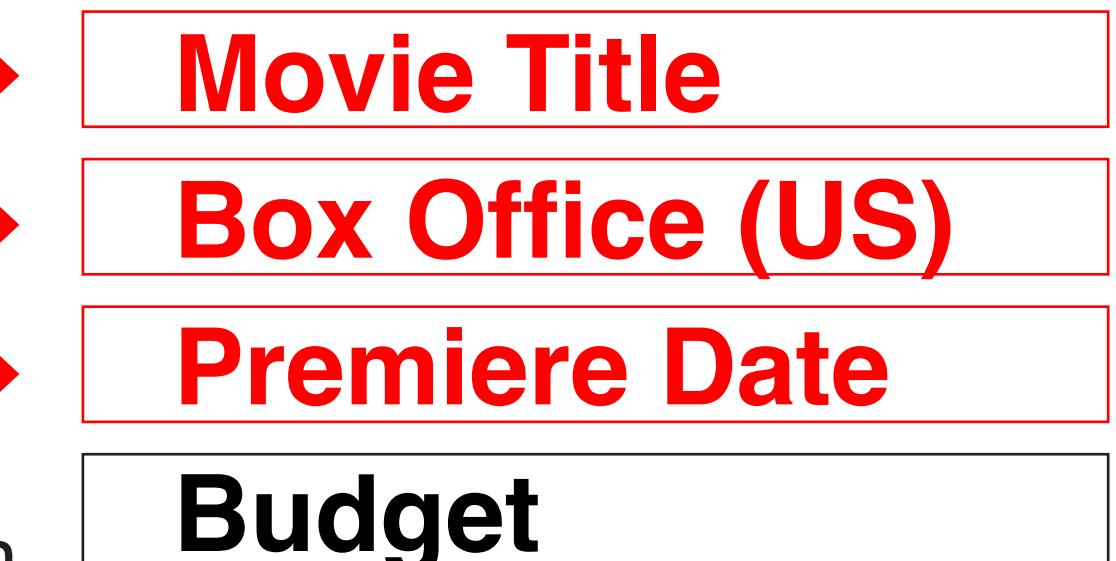
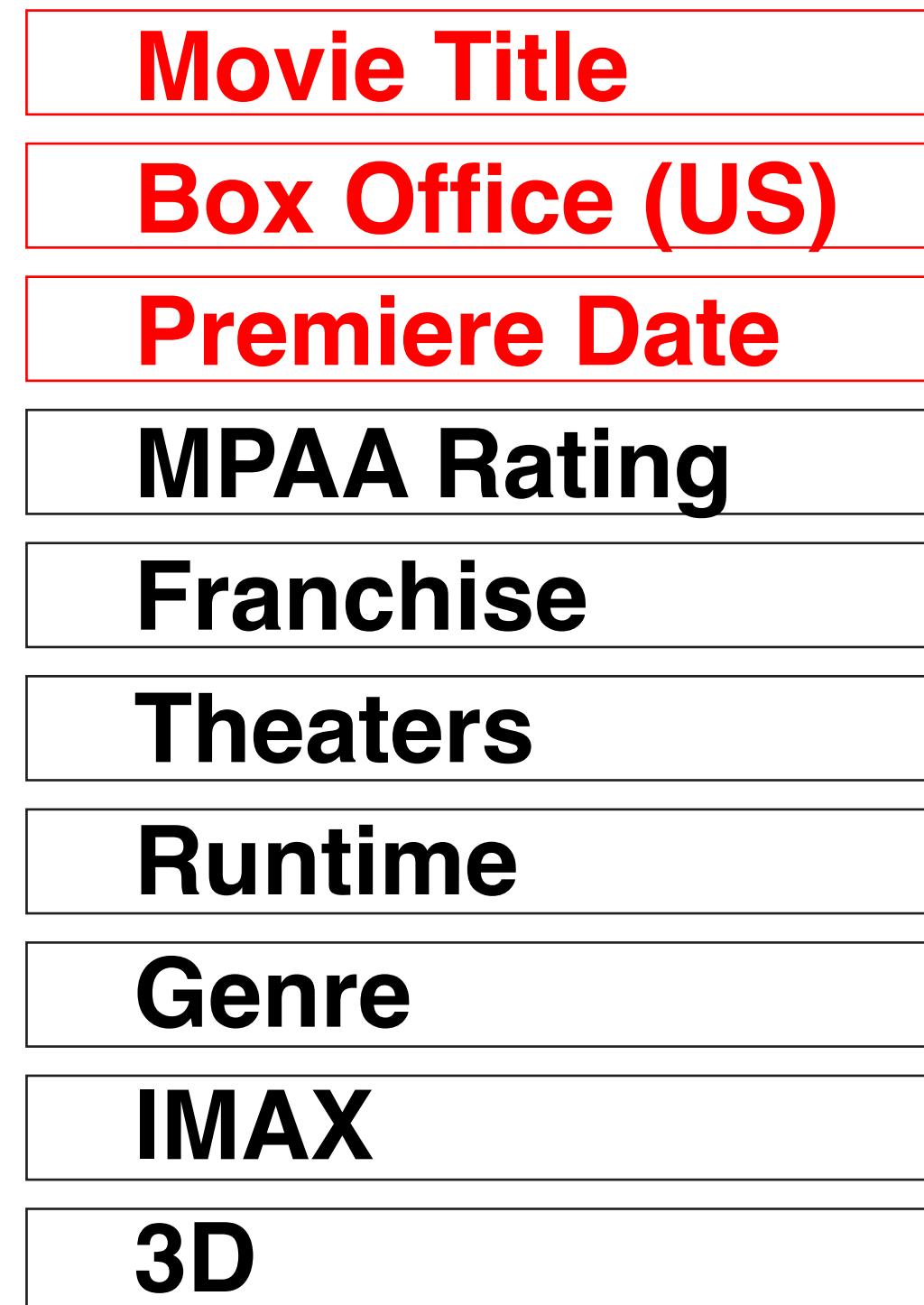
Year	Total Gross	Tickets Sold	#1 Movie
2018	\$9,154.8	987.6	Black Panther
2017	\$11,071.9	1,234.3	Star Wars: The Last Jedi
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1993	\$5,154.2	1,244.0	Jurassic Park
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1986	\$3,778.0	1,017.2	Top Gun
1985	\$3,749.2	1,056.1	Back to the Future
1984	\$4,031.0	1,199.0	Beverly Hills Cop

Data Acquisition Beautiful Soup

Bigger than Big Films 2008-2017



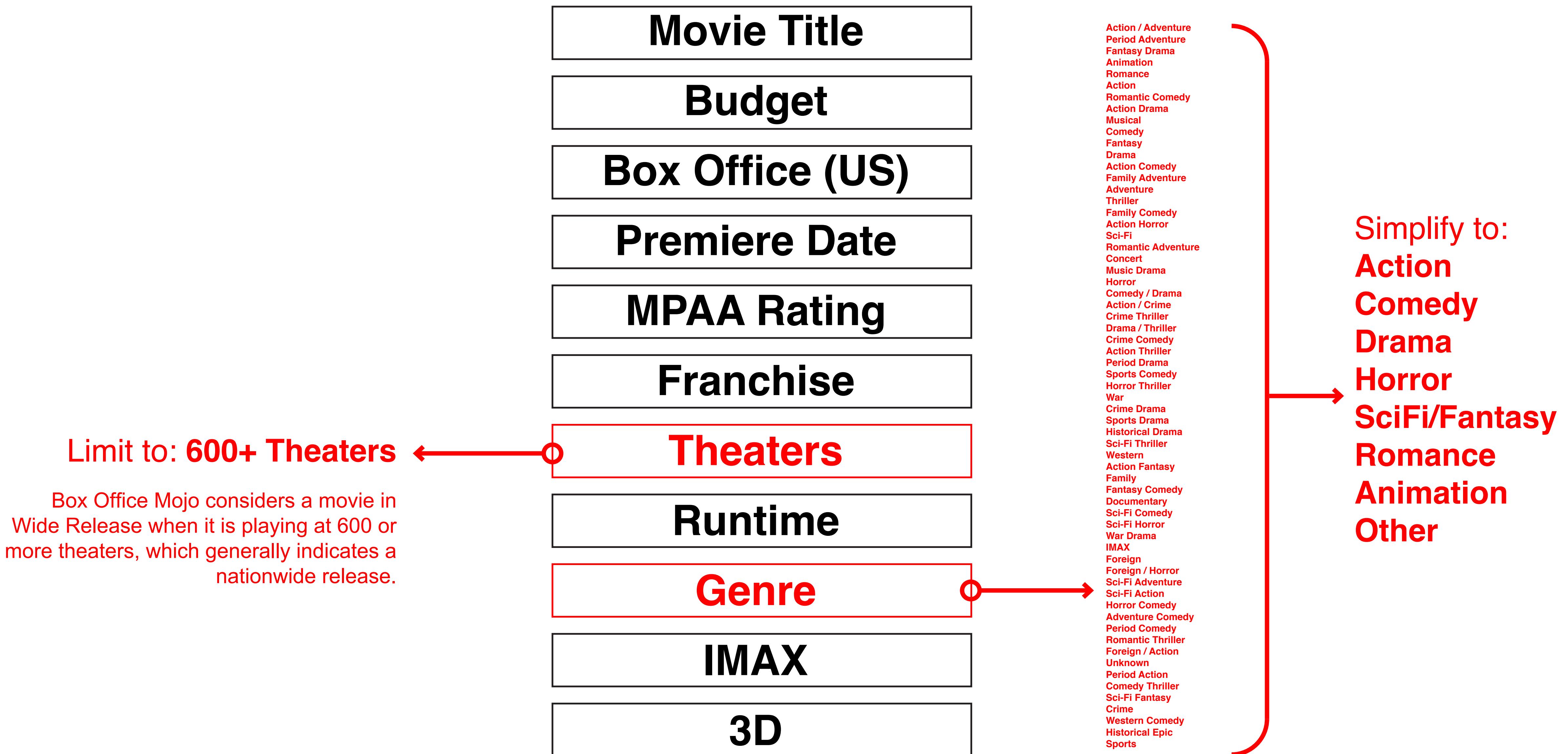
Merge



Unique match
on whole
and fragment
combinations

Data Cleaning Reduction & Limiting

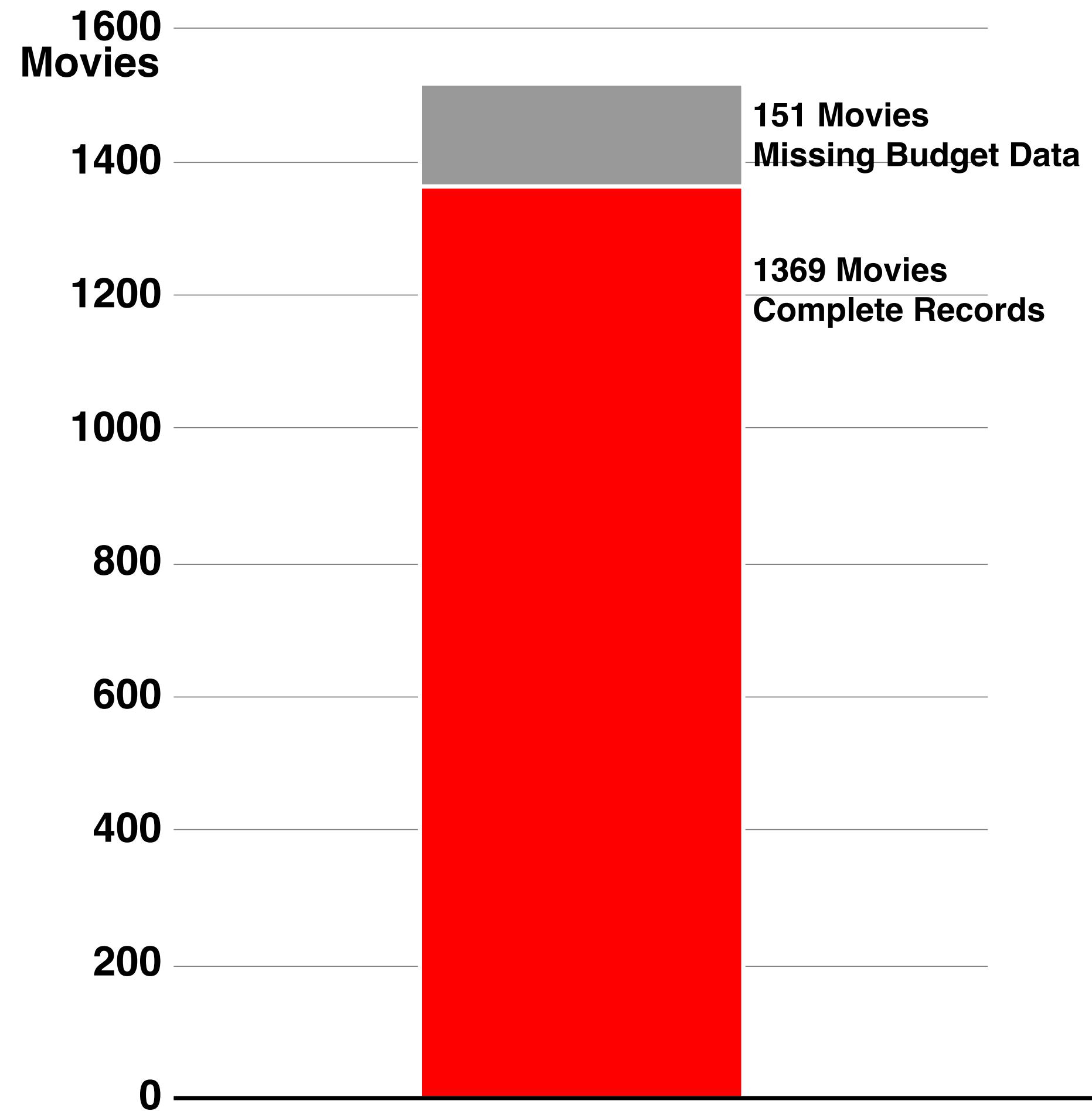
Bigger than Big Films 2008-2017



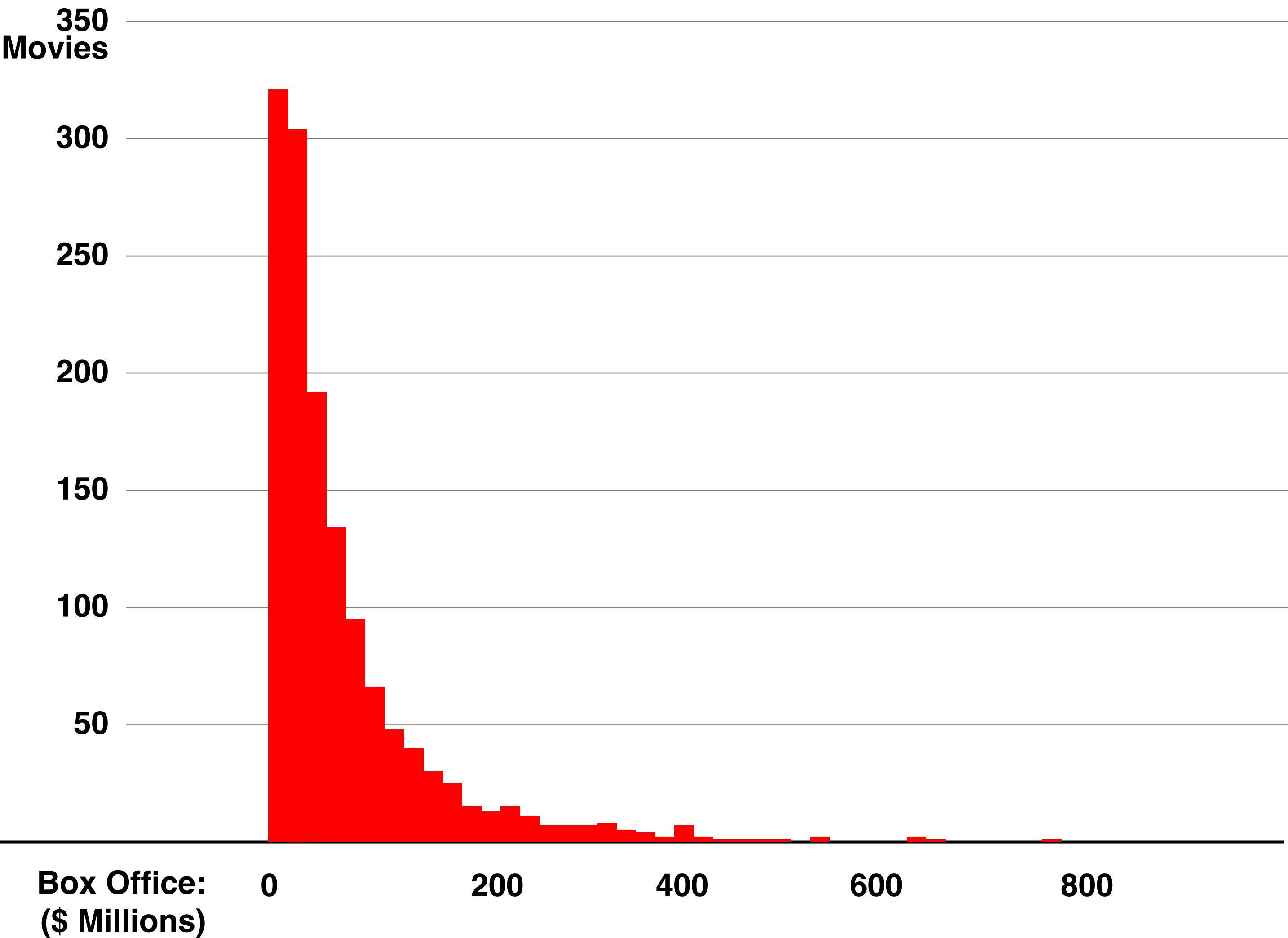
Data Context

Bigger than Big Films 2008-2017

1520 Movies Total



Box Office Distribution

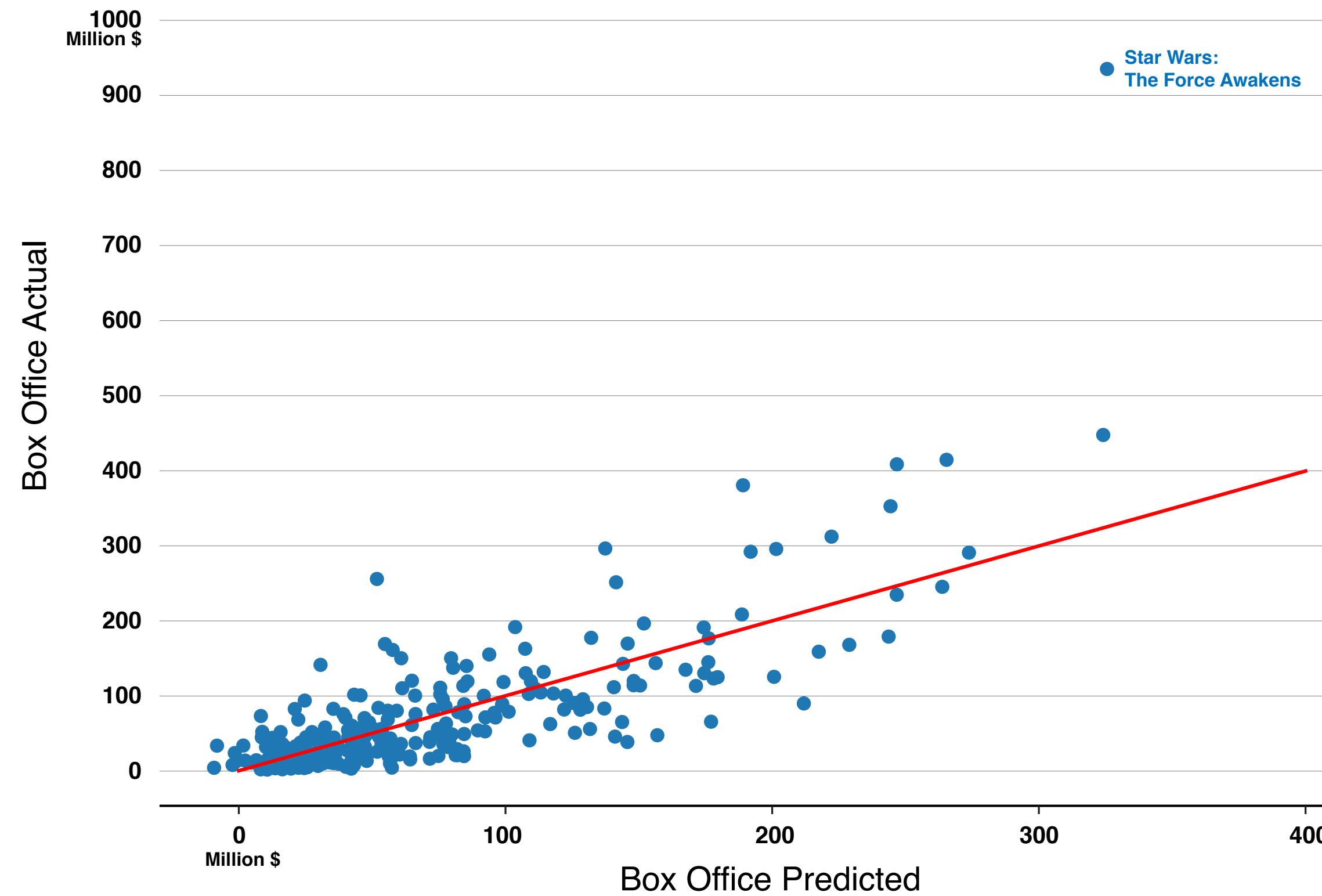


1. Linear Regression Cross Validation 0.544 R²
 2. Ridge Regression Cross Validation 0.544 R²
 3. Polynomial Features Cross Validation 0.499 R²
 4. Lasso Regularization & Cross Validation 0.532 R²
- Feature Reduction
5. Linear Regression Cross Validation 0.544 R²

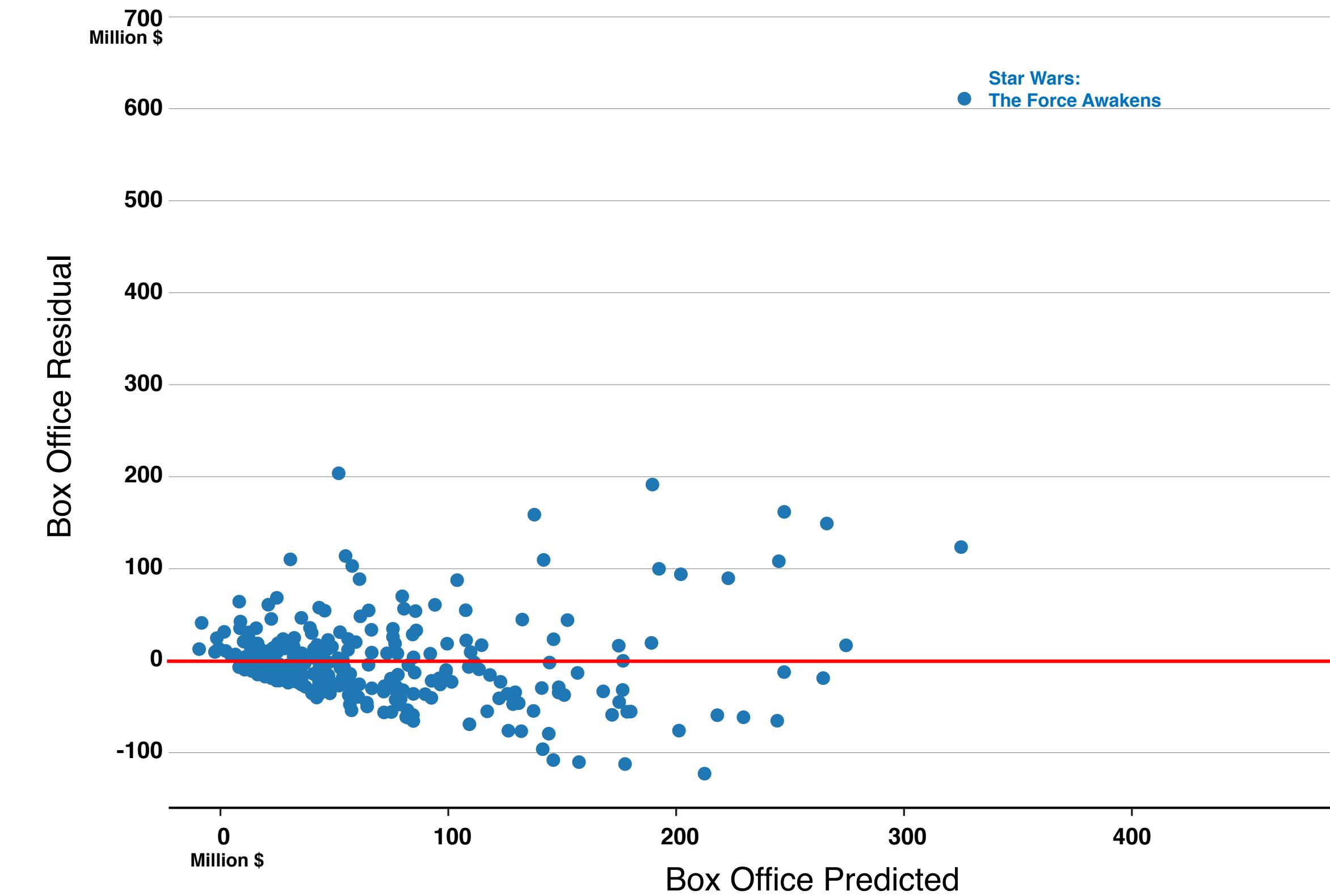
Linear Regression Test Score

Bigger than Big
Films 2008-2017

Predicted v. Actual Box Office



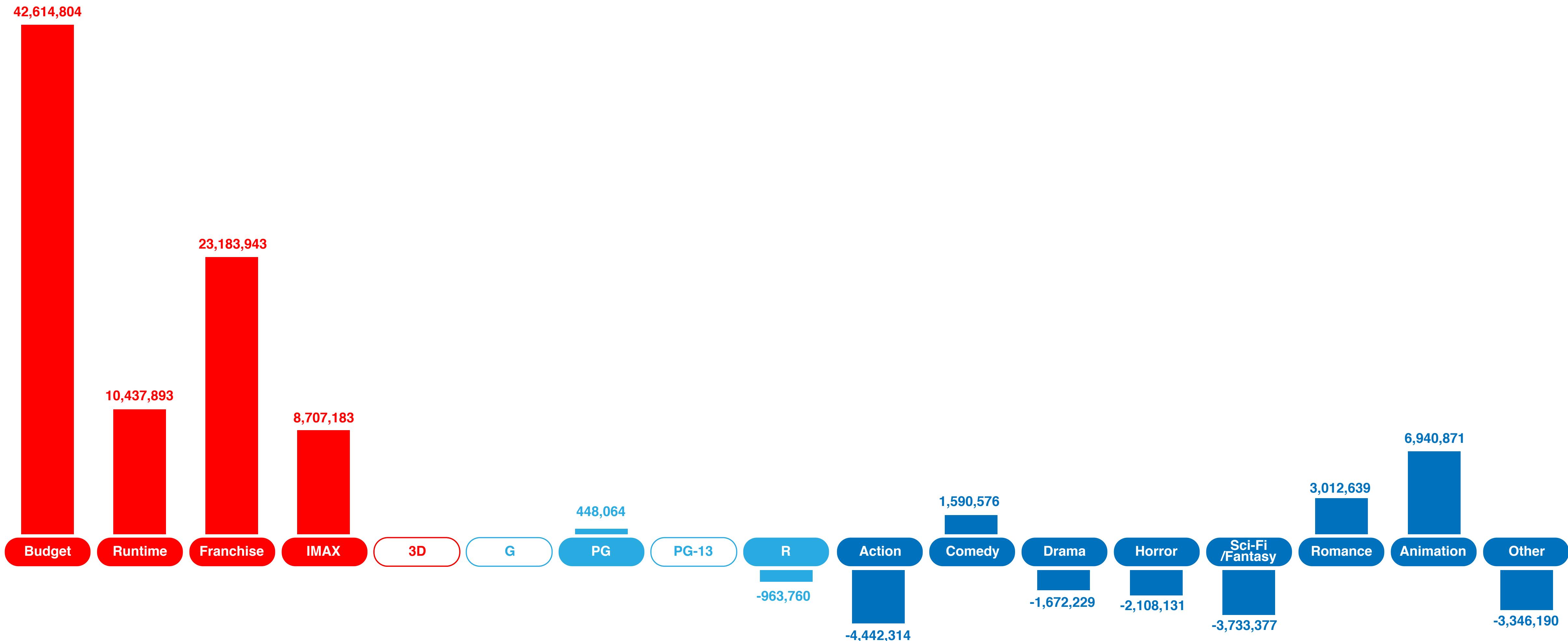
Residuals



Linear Regression Model Score: 0.594 R²

Scaled Relative Feature Strength

Bigger than Big
Films 2008-2017



The Contemporary Cinematic Regime

Bigger than Big Films 2008-2017

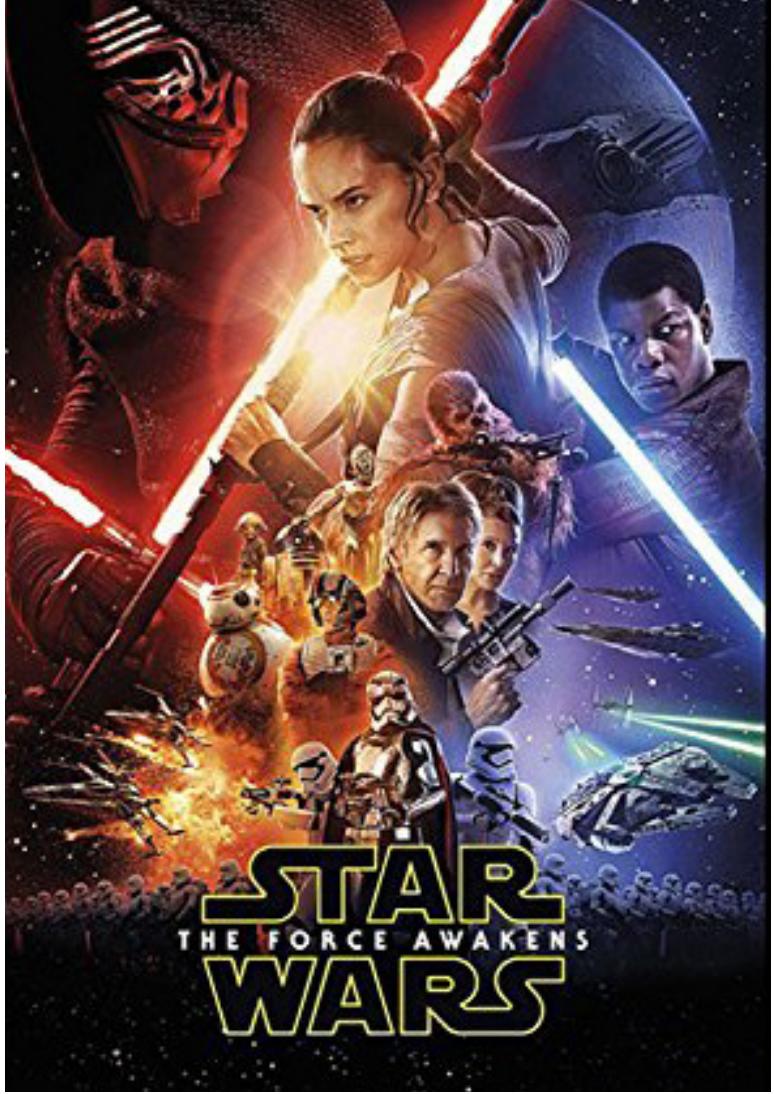
2017



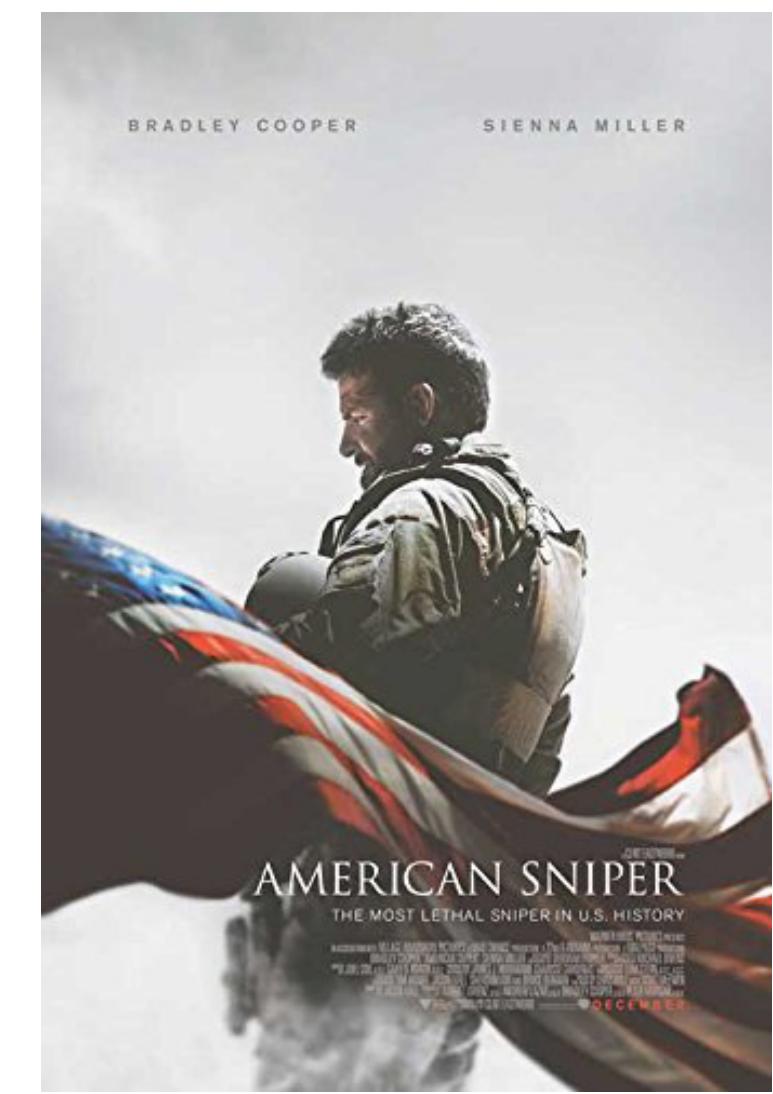
2016



2015



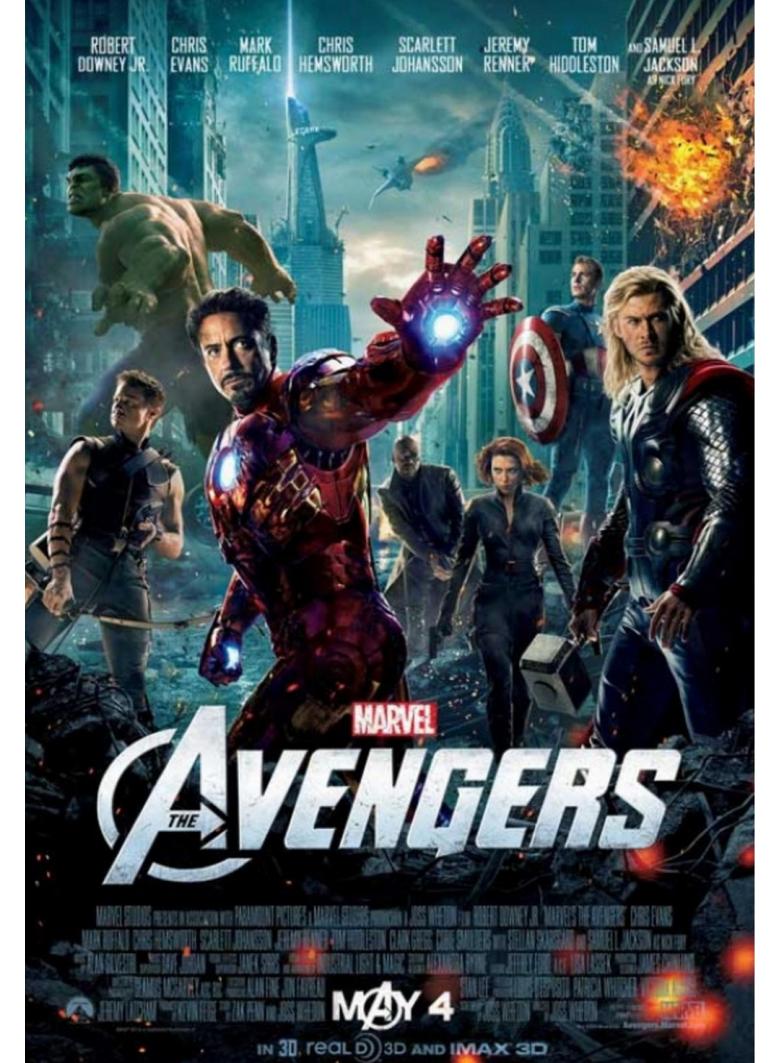
2014



2013



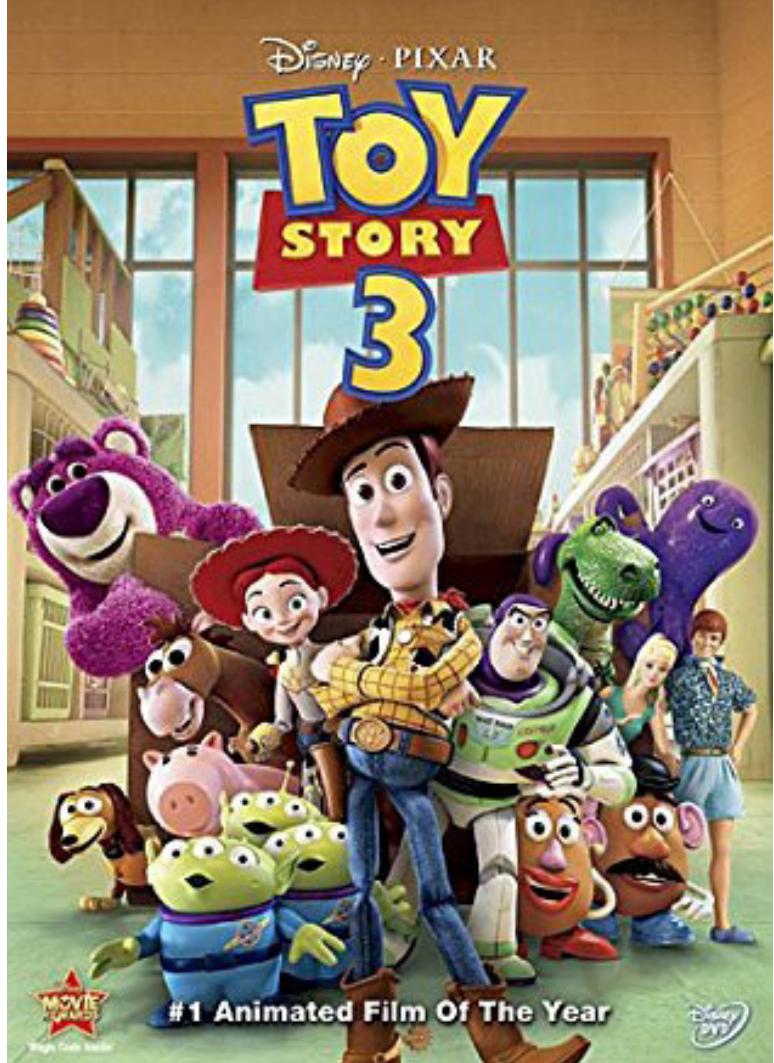
2012



2011



2010



2009



2008



The Contemporary Cinematic Regime

Bigger than Big Films 2008-2017



HOME > FILM > AWARDS

In Contention™

Delayed by Popular Demand: Academy's Controversial New Oscar Category

By KRISTOPHER TAPLEY

CREDIT: COURTESY OF DISNEY

There was plenty of positive membership feedback to go along with the well-publicized backlash to the Academy of Motion Picture Arts and Sciences' Aug. 8 announcement of an "achievement in popular film" Oscar category, insists AMPAS CEO Dawn Hudson. Nevertheless, the organization last week stepped back its plans for the new category, conceding a need for "further study."



MOVIES ENTERTAINMENT

How misguided is the academy's new 'popular film' Oscar category? Let us count the ways

By JUSTIN CHANG | FILM CRITIC | AUG 10, 2018 | 4:00 AM



Several months ago, shortly before the 90th annual Academy Awards, my Times film colleagues and I were polled about our all-time favorite best picture Oscar winners. One of us said "Amadeus," two picked "Casablanca," two flipped for "Titanic," and two chose "Moonlight." One gave it up for "The Godfather," to which I provided the bookend with "The Godfather: Part II."

With the exception of the comparatively little-seen "Moonlight," you would not hesitate to describe every one of those Oscar-winning best pictures as a popular movie. Any reasonable best picture pantheon would also include the mass-appeal hits "All About Eve," "It Happened One Night," "The Best Years of Our Lives," "Lawrence of Arabia," "The Silence of the Lambs" and "The Lord of the Rings: The Return of the King."



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Timeline

Box Office Mojo

Yearly Box Office

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Bigger Than Big

2017

2008

1997

1988

Commercial & Critical Success

1994 *Forrest Gump*
#1 Box Office
Best Picture Oscar



1988 *Rain Man*
#1 Box Office
Best Picture Oscar



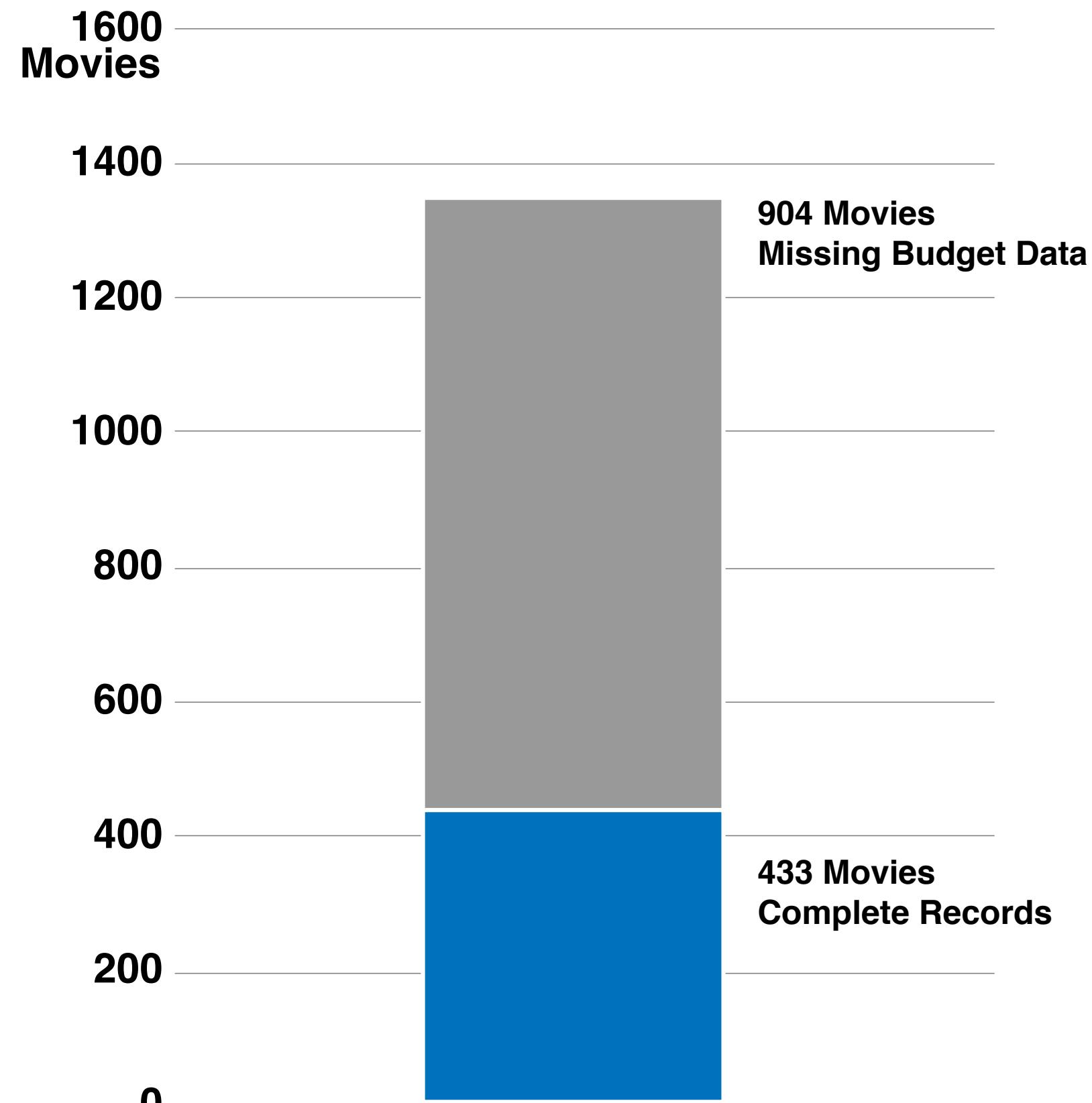
1997 *Titanic*
#1 Box Office
Best Picture Oscar



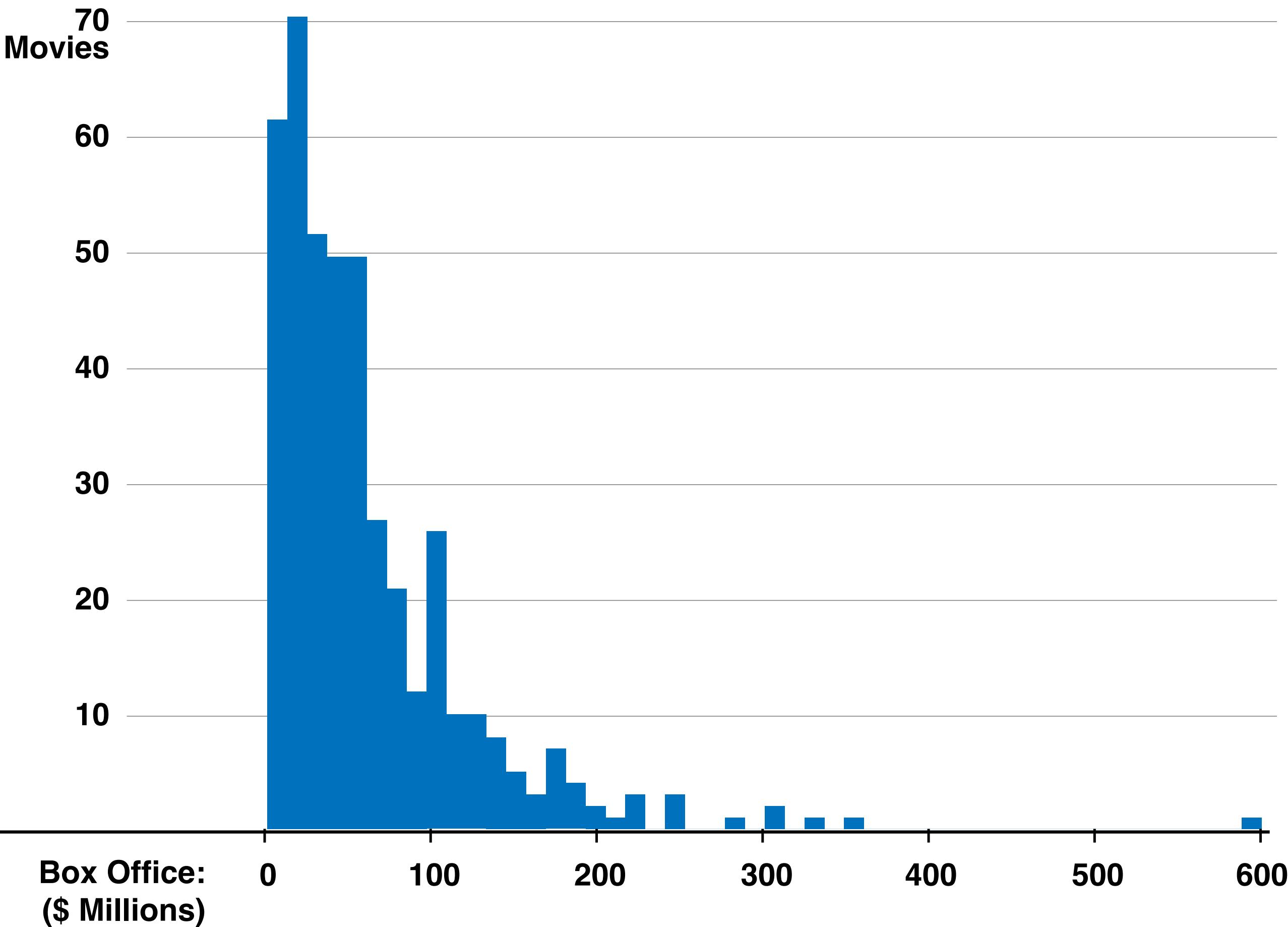
Data Context

Commercial & Critical Success Films 1988-1997

1337 Movies Total



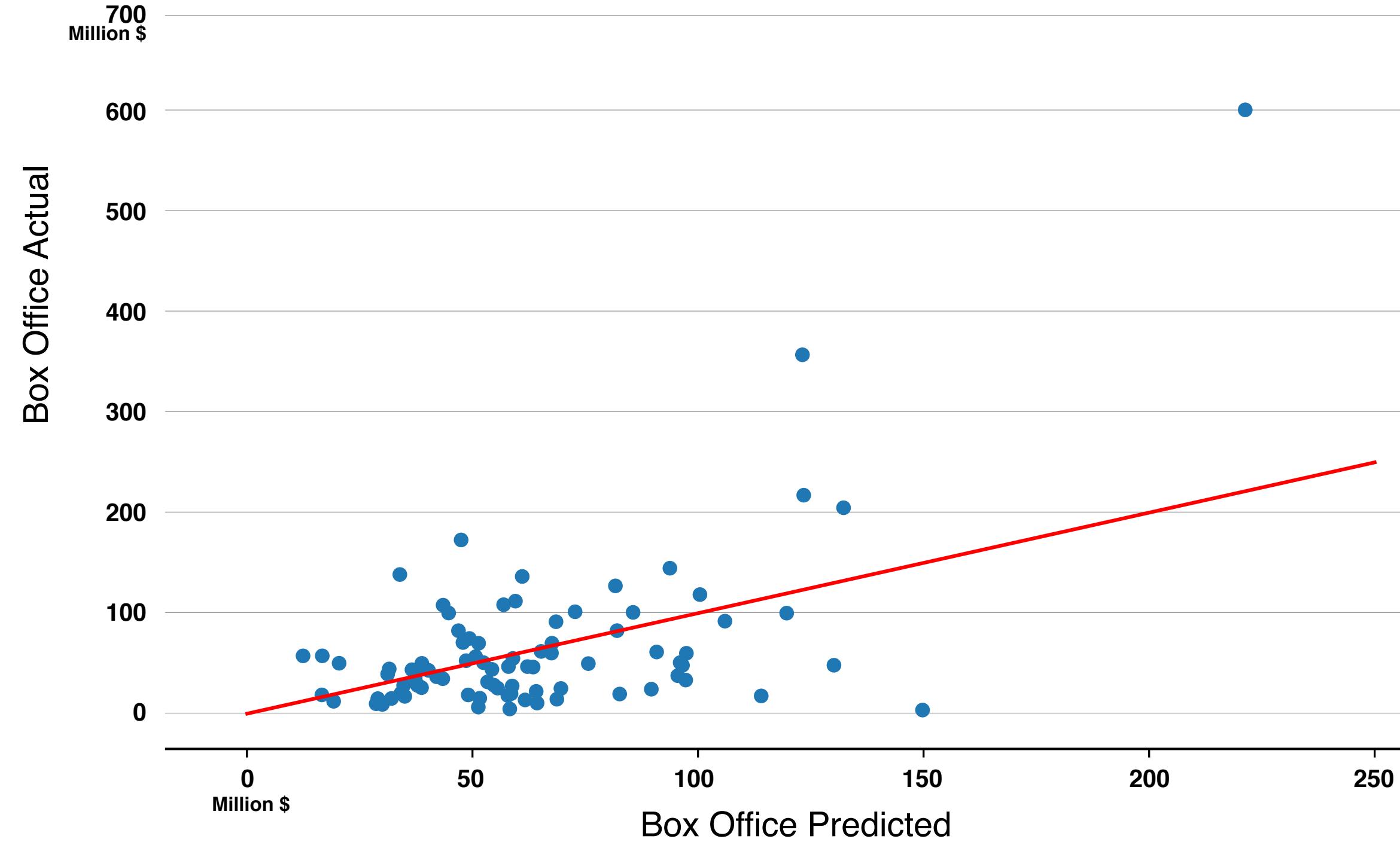
Box Office Distribution



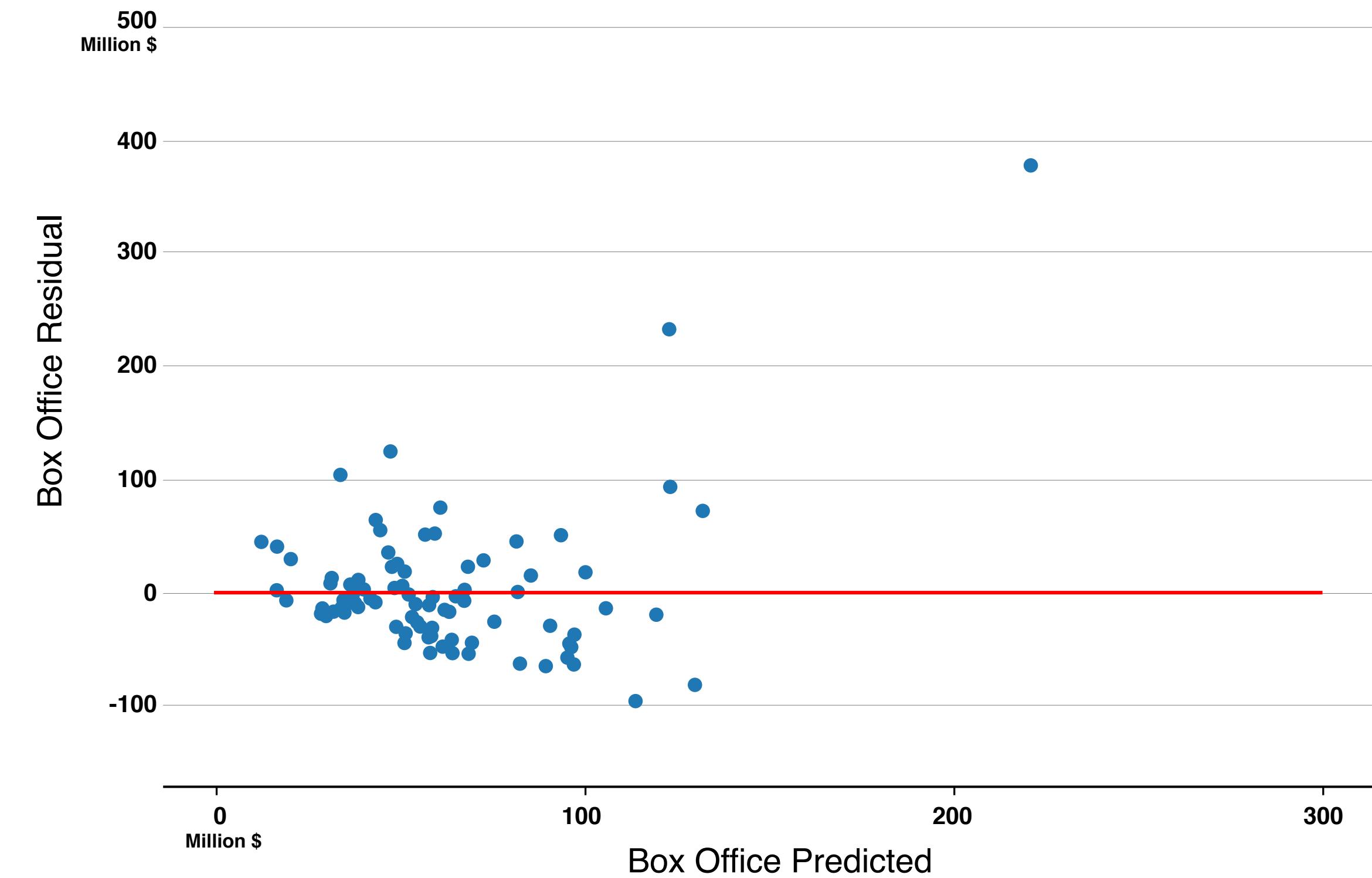
Linear Regression Test Score

Commercial & Critical Success Films 1988-1997

Predicted v. Actual Box Office



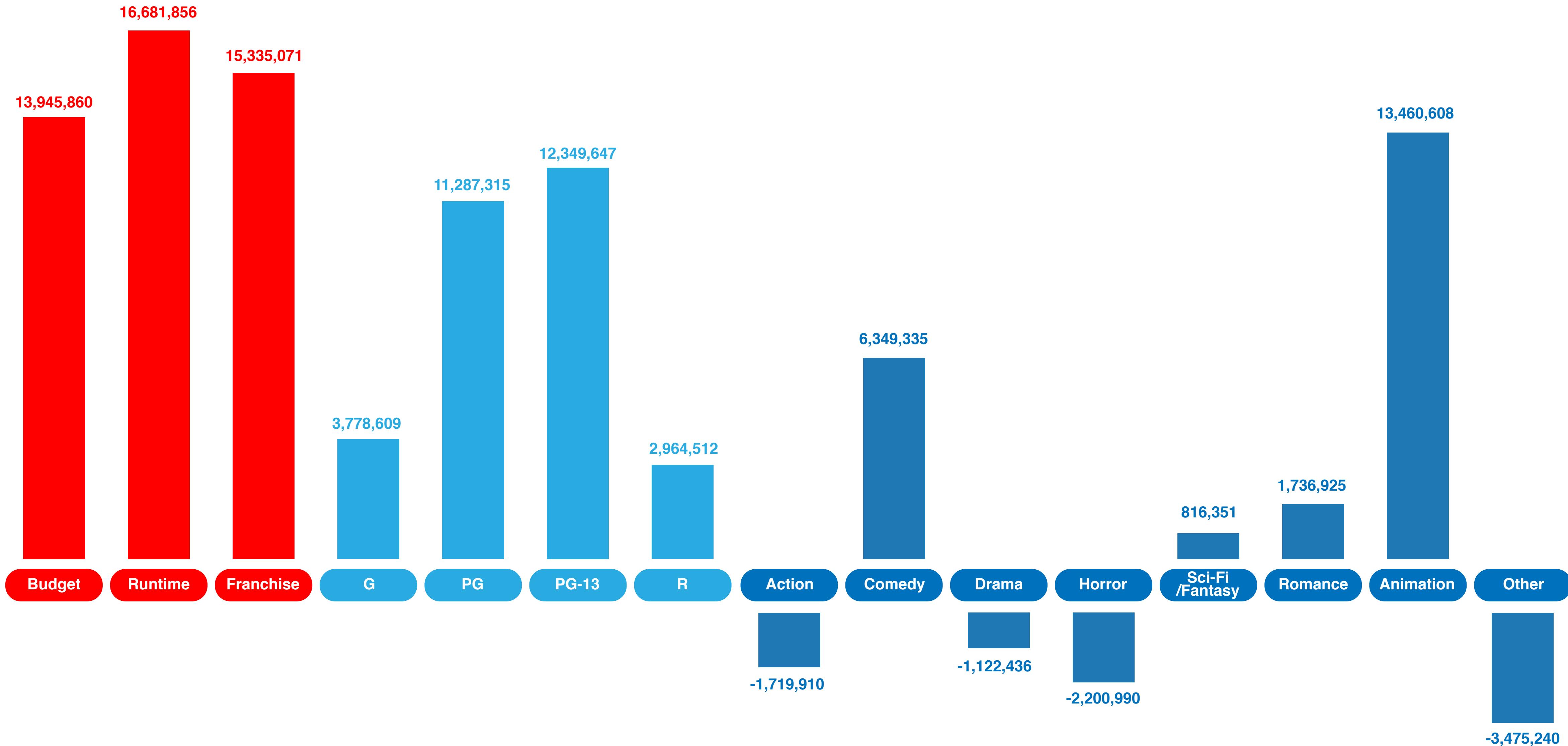
Residuals



Linear Regression Model Score: 0.337 R²

Scaled Relative Feature Strength

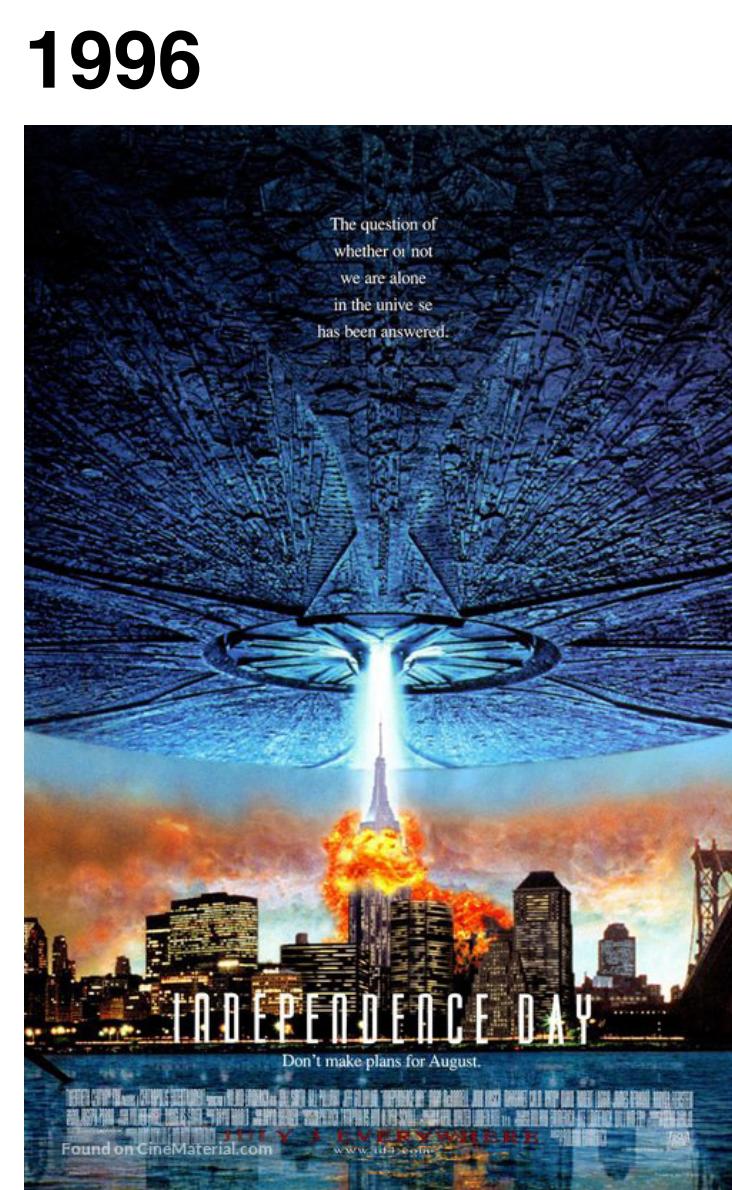
Commercial & Critical Success Films 1988-1997



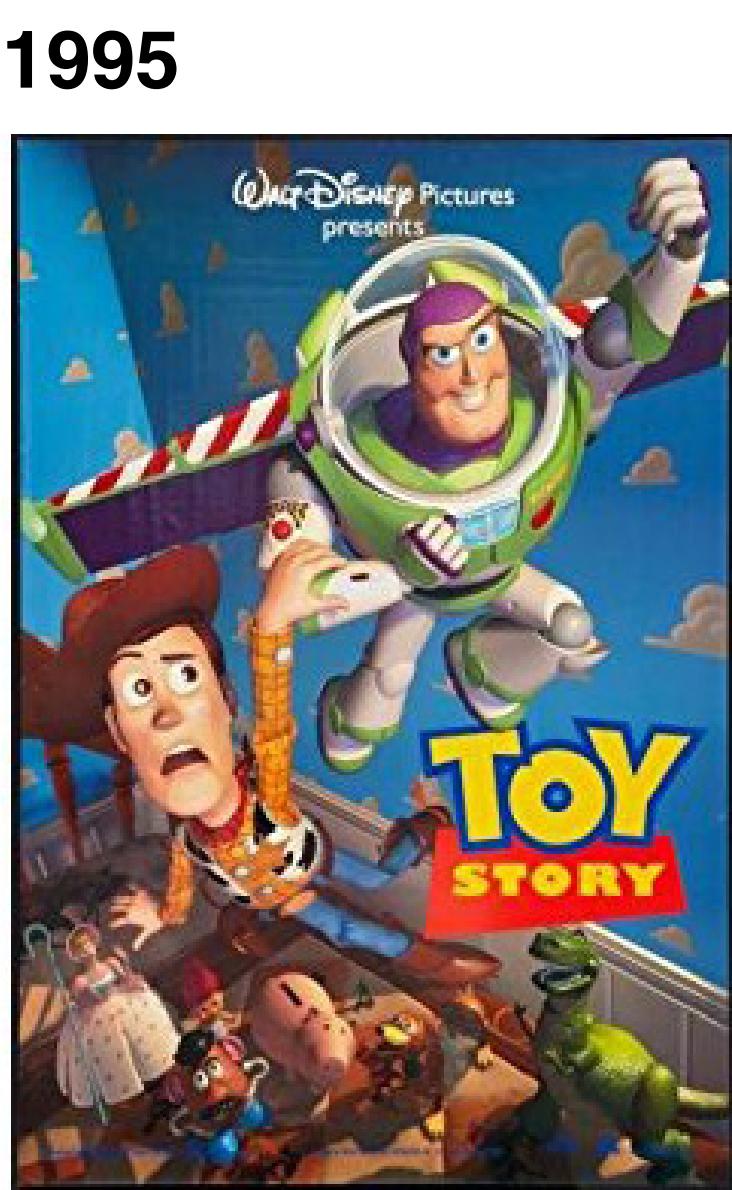
Commercial & Critical Success Films 1988-1997



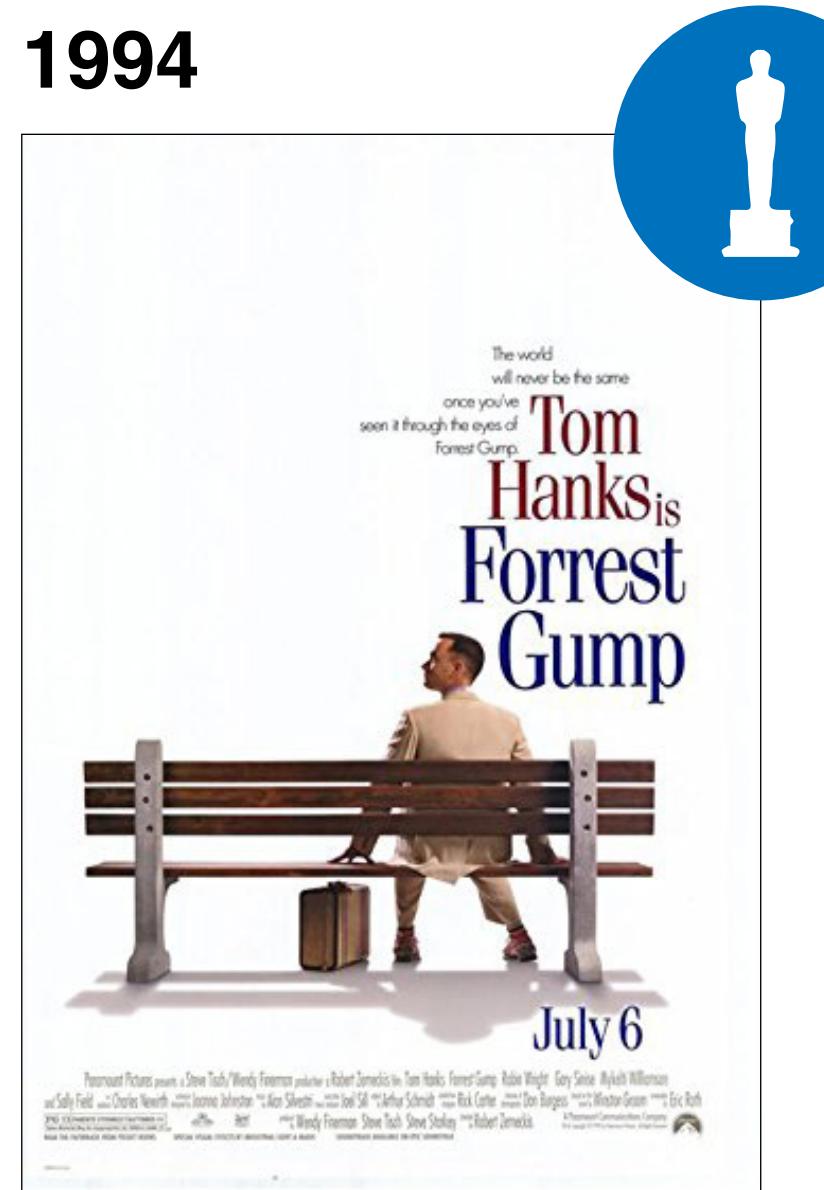
1997



1996



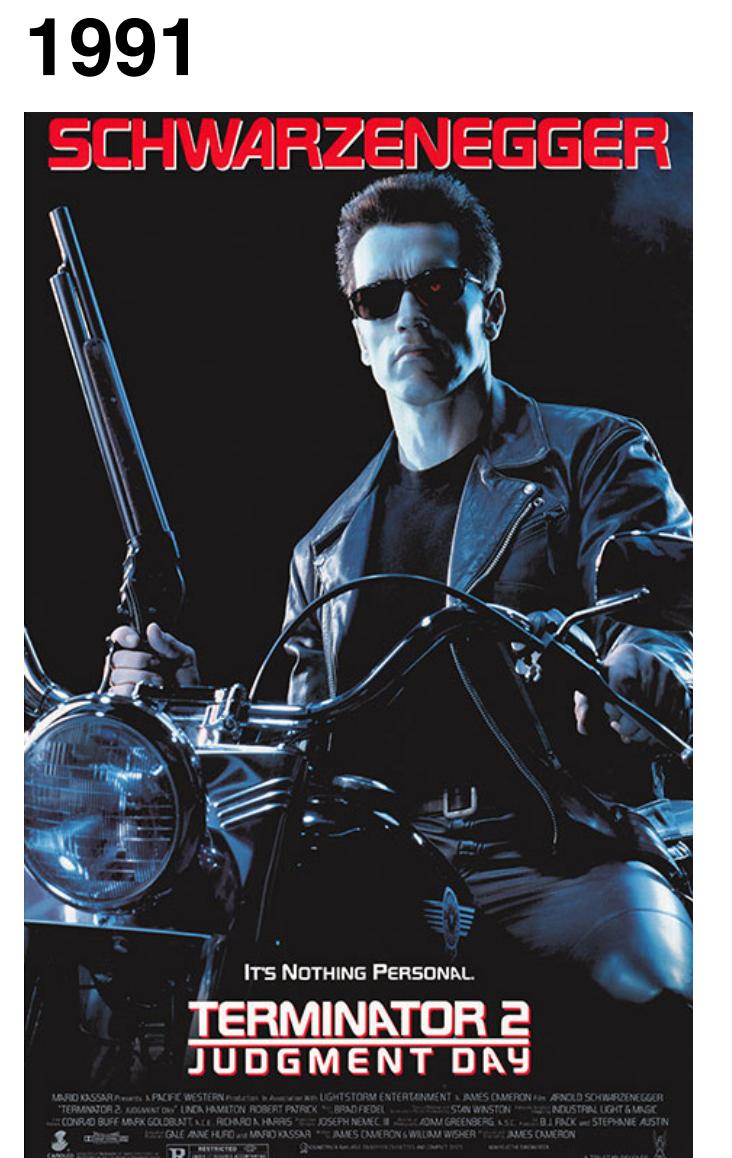
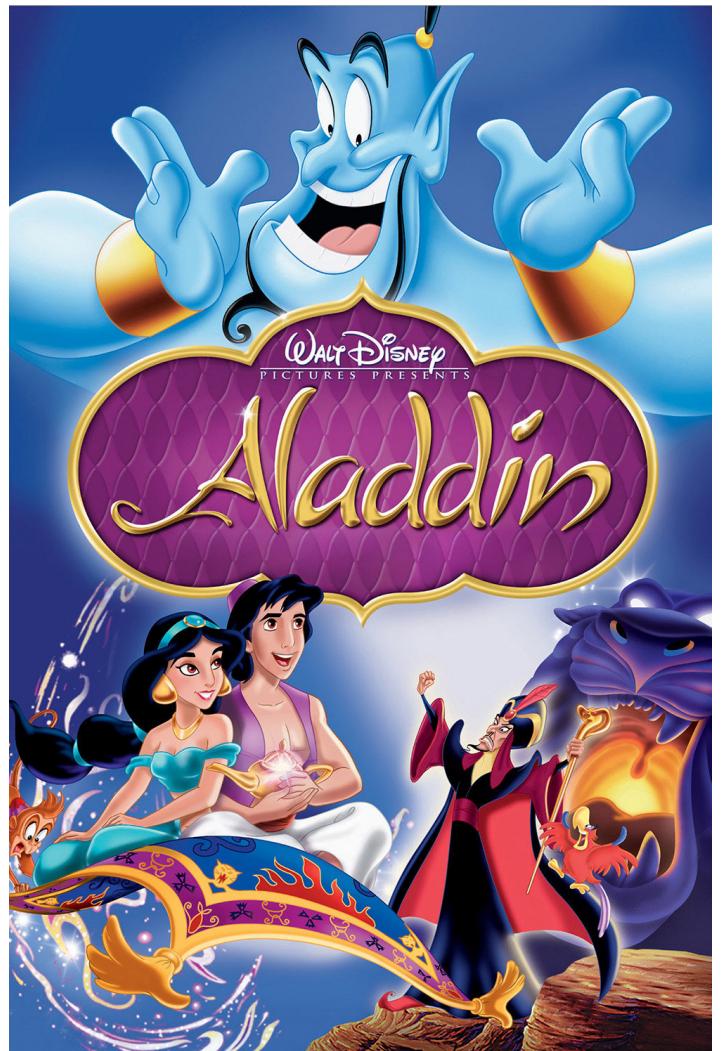
1995



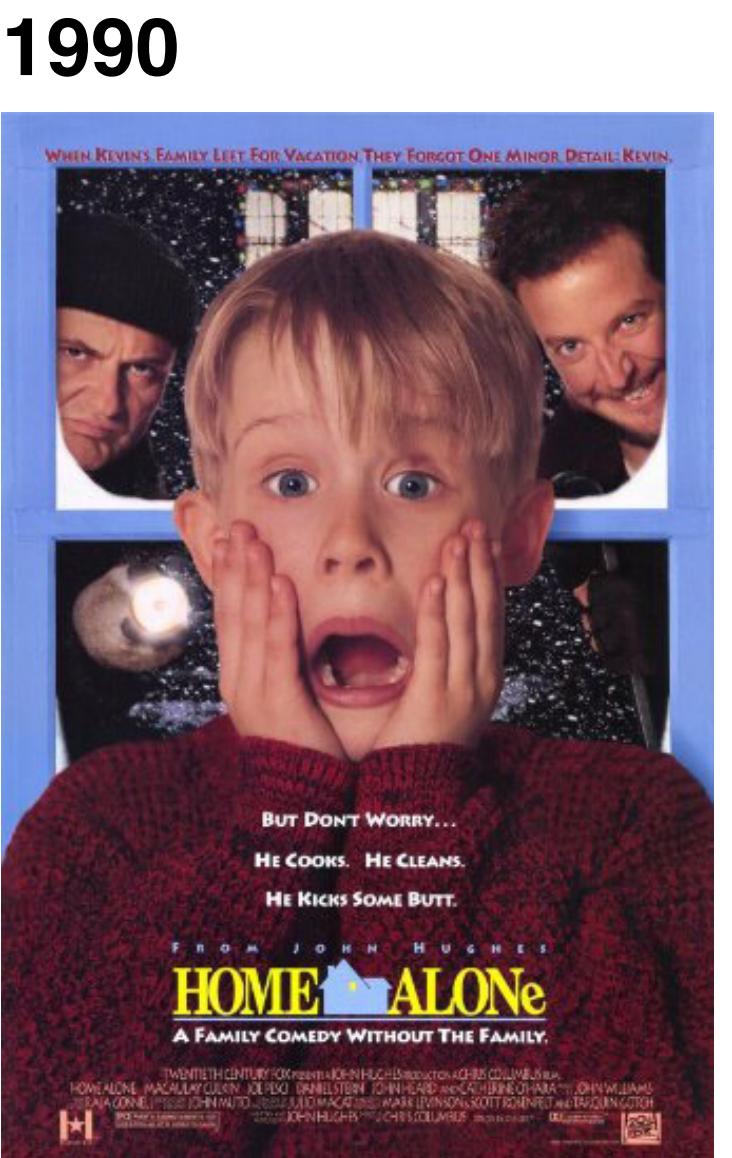
1994



1992



1991



1990



1989



1988



The American Cinema Through Data

