

A large, dense crowd of people is seated in a cinema, all wearing 3D glasses. The audience is diverse in age and appearance. The cinema has red seats and a red wall. At the top of the wall, there are three rectangular openings, possibly for ventilation or lighting. The overall atmosphere is that of a movie screening.

Film Success in China

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Project 2
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A large, dense crowd of people is seated in a cinema, all wearing 3D glasses. The audience is diverse in age and appearance. The cinema seats are red, and the walls are a dark red color. The lighting is dim, typical of a movie theater. The text "What explains the success of films in the Chinese market?" is overlaid in white, bold, sans-serif font in the center of the image.

What explains the success of
films in the Chinese market?

Collect Chinese Box Office Data from Box Office Mojo using BeautifulSoup



Pair with Kaggle
IMDB dataset

→ 1177 titles

Box Office Mojo

by IMDbPro

Search for Titles

🔍

IMDbPro

f

🐦

Domestic

International

Worldwide

Calendar

All Time

Showdowns

Indices

Chinese Box Office Weekends For 2019

By Year ▾

2019 ▾

China ▾

Data as of Oct 8, 2:28 PDT

Dates ▾	Top 10 Gross ▾	%± LW ▾	Overall Gross ▾	%± LW ▾	Releases ▾	#1 Release	Week ▾
Dec 27-29	\$62,768,348	-37.9%	\$65,586,895	-36.2%	50	Ip Man 4: The Finale	52
Dec 20-22	\$101,064,887	+34.7%	\$102,768,685	+32.3%	50	Ip Man 4: The Finale	51
Dec 13-15	\$75,008,063	+9.4%	\$77,686,681	+11.7%	46	Sheep Without a Shepherd	50
Dec 6-8	\$68,570,691	-4.5%	\$69,538,755	-6.4%	41	Jumanji: The Next Level	49
Nov 29-Dec 1	\$71,816,243	-9.2%	\$74,281,875	-9.5%	47	Frozen II	48
Nov 22-24	\$79,107,132	+43.1%	\$82,096,308	+39.6%	44	Frozen II	47
Nov 15-17	\$55,282,607	-16.1%	\$58,797,610	-13.1%	42	Somewhere Winter	46
Nov 8-10	\$65,912,707	-34.2%	\$67,633,361	-33.6%	40	Better Days	45
Nov 1-3	\$100,127,077	-16.1%	\$101,869,627	-15.8%	36	Better Days	44
Oct 25-27	\$119,298,186	+24.8%	\$120,968,762	+25.4%	38	Better Days	43
Oct 18-20	\$95,584,901	+5.6%	\$96,493,893	+6.2%	36	Maleficent: Mistress of Evil	42
Oct 11-13	\$90,520,722	-62.5%	\$90,866,673	-62.5%	34	The Captain	41
Oct 4-6	\$241,572,010	+651.9%	\$242,107,312	+566.4%	29	The Captain	40
Sen 27-29	\$32,127,648	+230.8%	\$36,333,305	+252.8%	46	The Captain	39

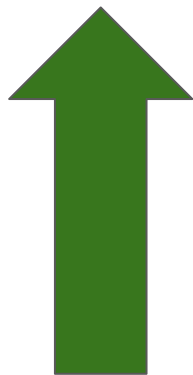
What Makes a Film Successful in China?

- Genre?
- Chinese production?
- International production?
- Domestic (Chinese) only release?
- US box office success?
- Film runtime?
- Time of year released?



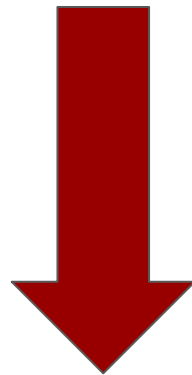
Used in Model

- USA gross revenue
- Released only in China
- Chinese production
- Runtime
- Release Period
- Release Month
- Genres:
 - Action
 - Adventure
 - Animation
 - Comedy
 - Crime
 - Documentary
 - Drama
 - Fantasy
 - Romance
 - Thriller
 - War



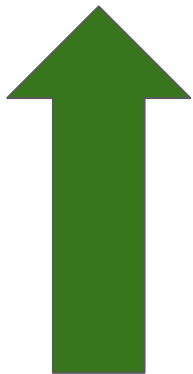
Low or No Importance (not used)

- Genres:
 - Biography
 - Family
 - History
 - Horror
 - Musical/Music
 - Mystery
 - Sci-Fi
 - Sport
 - Western



Used in Model

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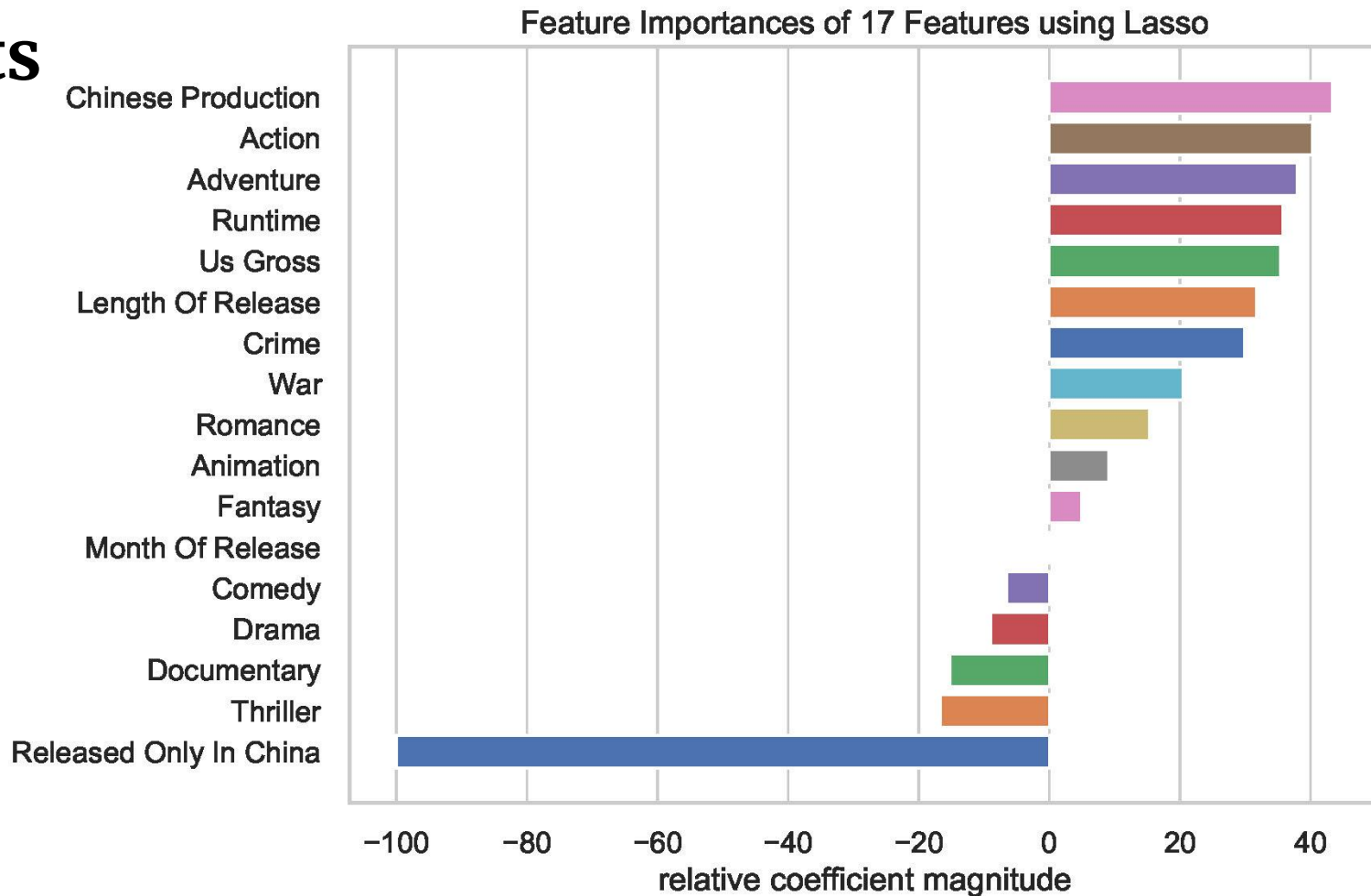
Target

- Chinese gross revenue

Low or No Importance
(not used)

- Genres:
 - Biography
 - Family
 - History
 - Horror
 - Musical/Music
 - Mystery
 - Sci-Fi
 - Sport
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Results



Conclusions

- Paradox:
 - Release only in China is strongest (negative) feature

Conclusions

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 - Chinese production is strong positive feature

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- Best performing genres:
 - Action, Adventure, Crime

Conclusions

- Paradox:
 - Release only in China is strongest (negative) feature
 - Chinese production is strong positive feature
- Best performing genres:
 - Action, Adventure, Crime
- Worst performing genres:
 - Documentary, Drama, Thriller

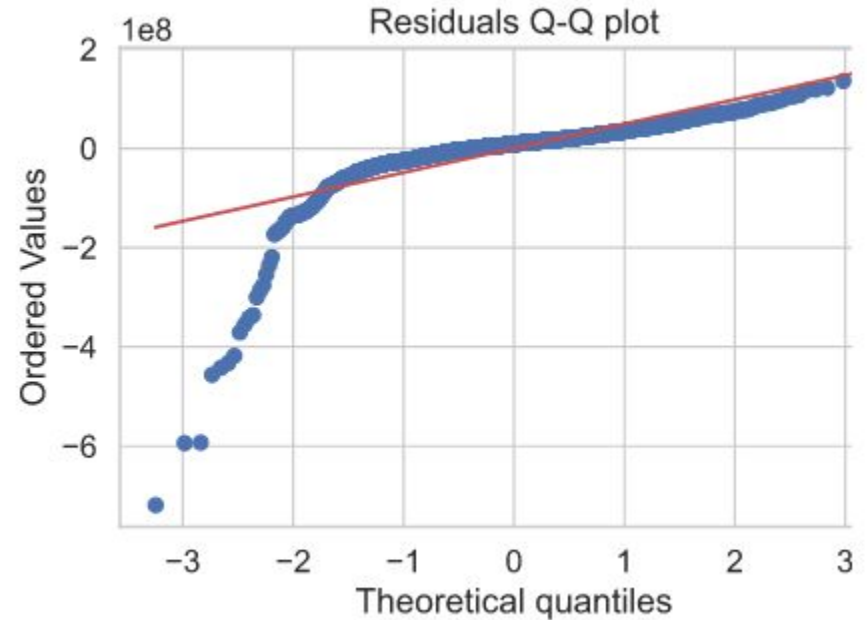
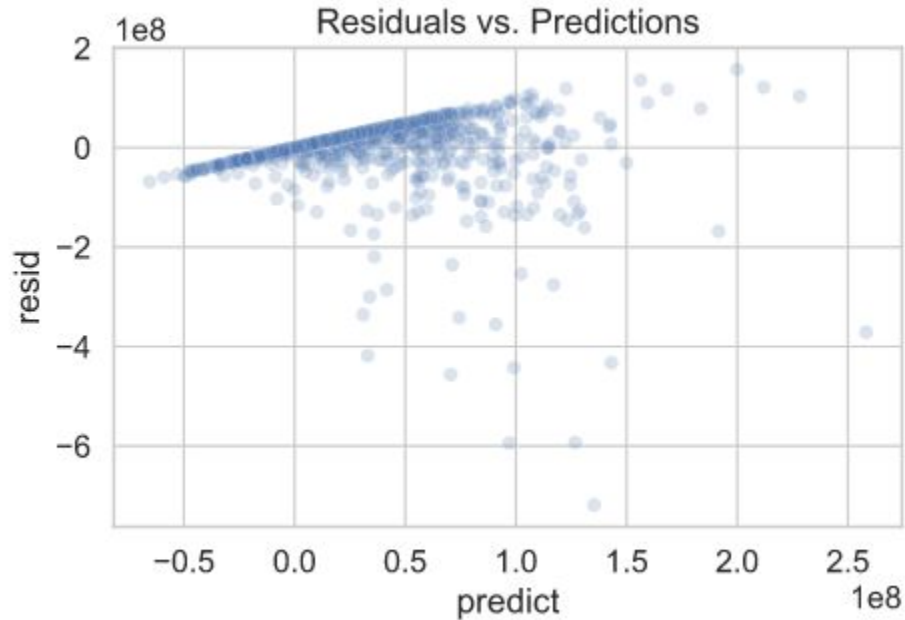
Future Work

- More and better data
 - Ideally using Chinese sources
- Investigate performance of Chinese films in international market

A large, diverse audience is seated in a movie theater, all wearing 3D glasses and looking towards the screen. The theater has red seats and a red wall. Three small, dark rectangular objects are visible on the wall above the audience. The text "Thank You!" is overlaid in the center of the image.

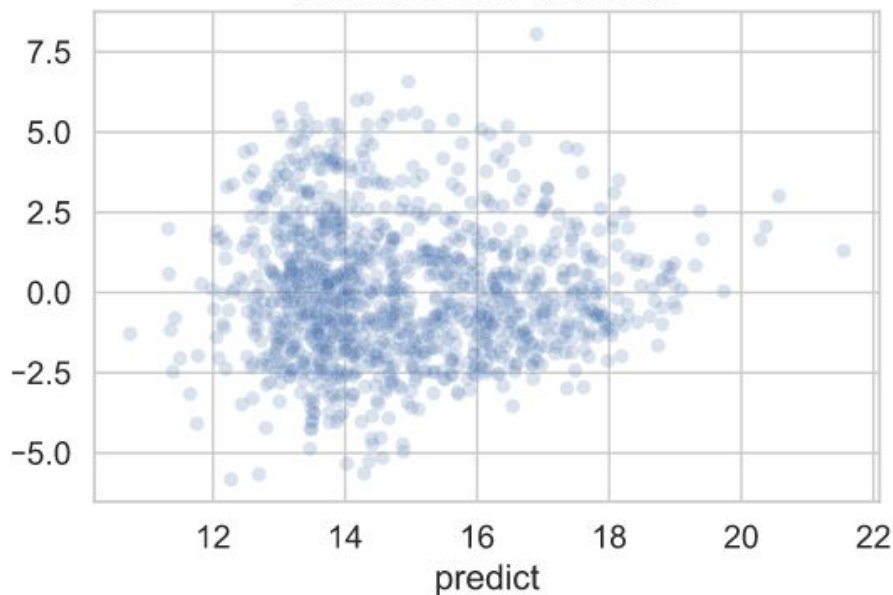
Thank You!

Appendix – Residuals: original target



Appendix – Residuals: log transformed target

Residuals vs. Predictions



Residuals Q-Q plot

