





IMDB Sequel Keyword Search - web scraped

Billboard Soundtrack Chart - web scraped

Inflation Adjustment, Consumer Price Index

KEYWORD: LORD OF THE RINGS WWW.LOADONTHERINGS.NET

O MMIII NEW LINE EKODUCTIONS, INC. THE CORD OF THE KINGS, TAX TO A NAMES OF THE CHARACTERS, EVENTS, ITEMS, AND PLACES THEREIN, ARE TRADEMARKS OF THE VAUL ZAENTZ COMPANY DEPA TOLKIEN ENTERPRISES UNDER LICENSE TO NEW LINE PRODUCTIONS. INC. ALE RIGHTS RESERVED. ORD OF FINGS
THE RETURN OF THE KING S
THE JOURNEY ENDS DECEMBER 17TH

MODEL

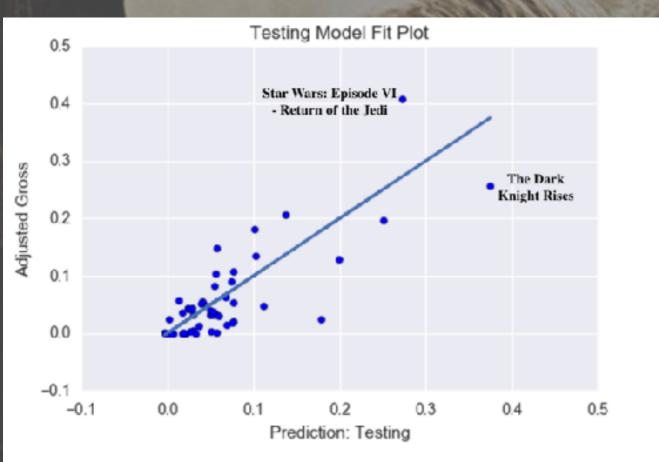
Dep. Variable:	adj_gross	R-squared:	0.762
Model:	OLS	Adj. R-squared:	0.758
Method:	Least Squares	F-statistic:	198.3
Date:	Thu, 26 Jan 2017	Prob (F-statistic):	6.91e-131
Time:	23:19:40	Log-Likelihood:	657.67
No. Observations:	441	AIC:	-1301.
Df Residuals:	434	BIC:	-1273.
Df Model:	7		
Covariance Type:	nonrobust		

	coef	std err	t	P> t	[95.0% Conf. Int.]
votes	0.5154	0.027	18.854	0.000	0.462 0.569
runtime	0.0100	0.029	0.344	0.731	-0.047 0.067
adventure	0.0205	0.006	3.271	0.001	0.008 0.033
animation	0.0275	0.011	2.610	0.009	0.007 0.048
fantasy	0.0183	0.008	2.369	0.018	0.003 0.034
drama	-0.0192	0.007	-2.667	0.008	-0.033 -0.005
user_score	0.0158	0.023	0.692	0.490	-0.029 0.061

- Votes most predictive
- User Score not significant

OLS feature elimination by p-value





MODEL: TEST VS TRAIN

- Model: OLS
- Adj. R-squared: 0.762

Up-Votes

User Scores

Runtime

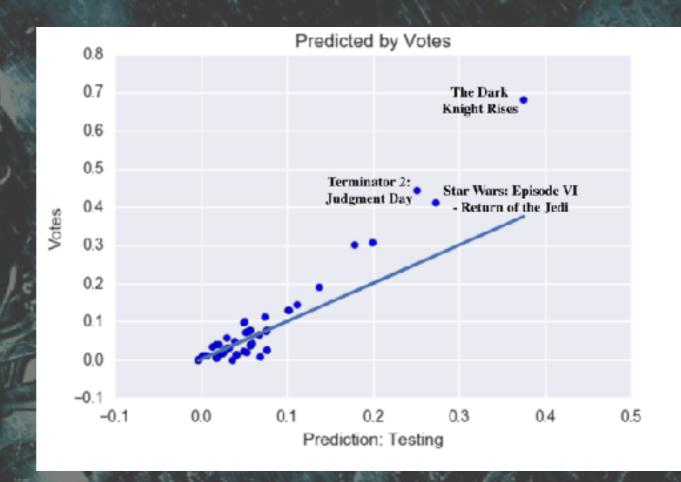
Genres

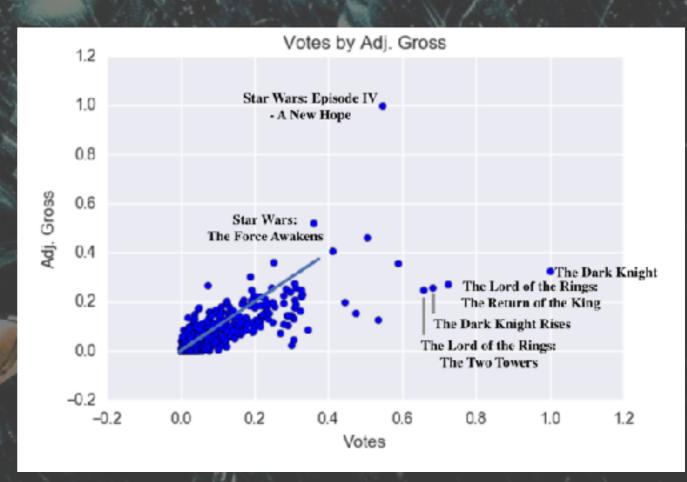
MODEL BY VOTES

Up votes help predict

Skewed by select few series

- Star Wars
- Dark Knight
- Lord of the Rings





REMOVE OUTLIERS

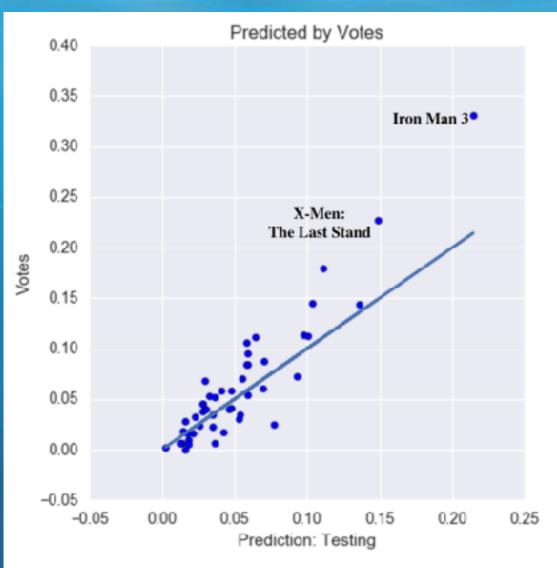
Dep. Variab	T6:	adj_gross	K-Sql	lared:		0.81/
Model:		OLS		R-squared:		0.815
Method:		Least Squares	F-st	atistic:		316.0
Date:		Fri, 27 Jan 2017	Prob	(F-statistic)	:	5.07e-153
Time:		12:23:37	Log-l	Likelihood:		787.95
No. Observations:		430	AIC:			-1564.
Df Residual	s:	424	BIC:			-1540.
Df Model:		6				
Covariance	Type:	nonrobust				
	coef	std err	t	P> t	[95.0% Co	onf. Int.]
votes	0.5502	0.029	19.271	0.000	0.494	0.606
animation	0.0367	0.008	4.875	0.000	0.022	0.051
runtime	0.0903	0.021	4.351	0.000	0.050	0.131
adventure	0.0161	0.005	3.537	0.000	0.007	0.025
user_score	-0.0521	0.017	-3.135	0.002	-0.085	-0.019
drama	-0.0058	0.005	-1.109	0.268	-0.016	0.005
Omnibus:		72.358	Durb:	in-Watson:		1.975
Prob(Omnibu	s):	0.000	Jarqu	ue-Bera (JB):		219.306
Skew:		0.772	Prob	(JB):		2.39e-48
Kurtosis:		6.140	Cond	. No.		16.0

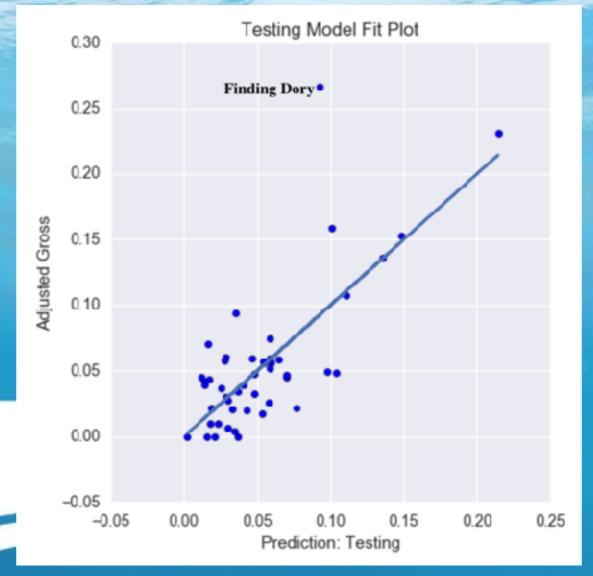
R-squared goes up: 0.758 to 0.815

Votes have the highest coefficient

User score coefficient is small and negative, but significant

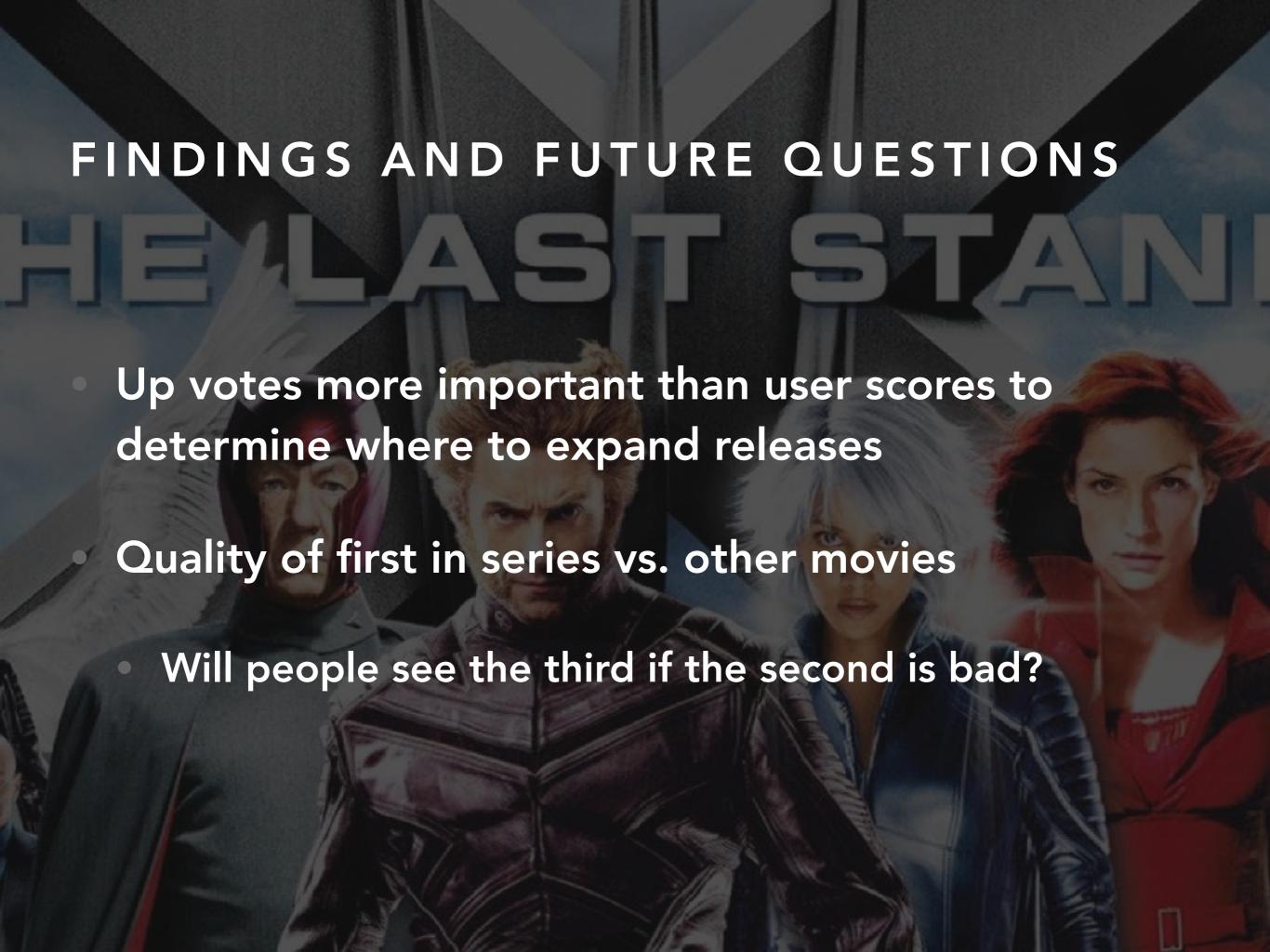








REMOVE OUTLIERS



NOTES AND LIMITATIONS

- More outliers in movies in series
- Reduced features to those found in over 5 movies
 - Looked at Billboard soundtrack scores, but was not predictive

