Benefits of a Good Ensemble

How to know if you've chosen the right cast and crew

How do I choose a movie project

What is the quality of the script?

How long will it take to film?

Who is the director?

What studio is producing the film?

Who am I going to be working with?

Benefits of working with an established actor

You will receive more future movie offers

Future offers could be for bigger movies

You could collaborate with the big name actor again

Experiment

Observe the effects of working with Nicolas Cage

Why Nicolas Cage?

- Nicolas Cage has a long diverse career
- He has been in successful and unsuccessful movies (based on movie gross)
- Fun

Methodology

Scrape Nicolas Cage's boxofficemojo.com profile for a list of all movies (NC movies) he has been in

Scrape all Nicolas Cage's movie profiles for all the actors (coactors) that have worked with Nicolas Cage

Scrape all the coactor's pages for all movies (1st degree movies) the coactors have been involved with

Scrape all 1st degree movie profiles for all the actors (peers) have have ever worked with the coactors

Scrape all peers' page for all movies (2nd degree movies) the peers have been involved with

Data

Date, Name, Movie, Gross

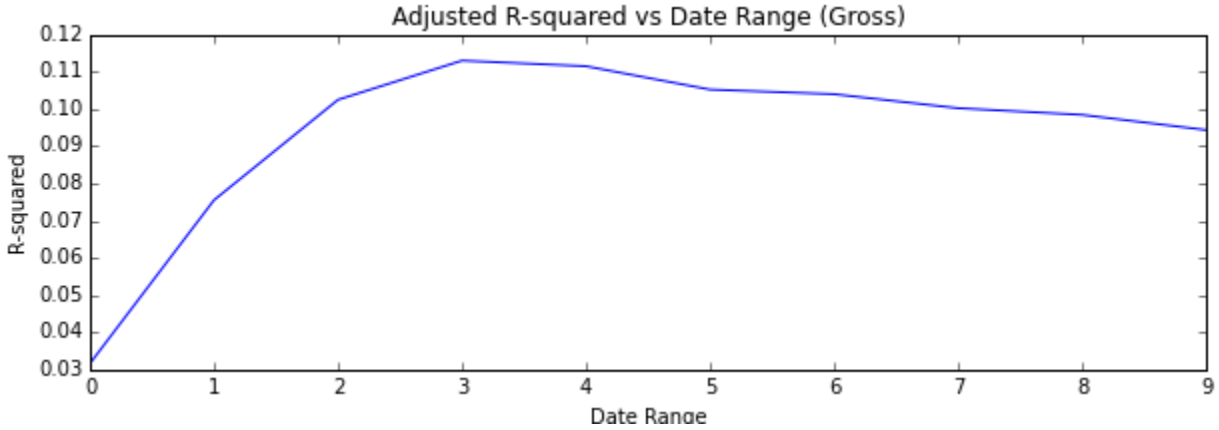
All actors were observed a number of days before and after each date a Nicolas Cage movie released

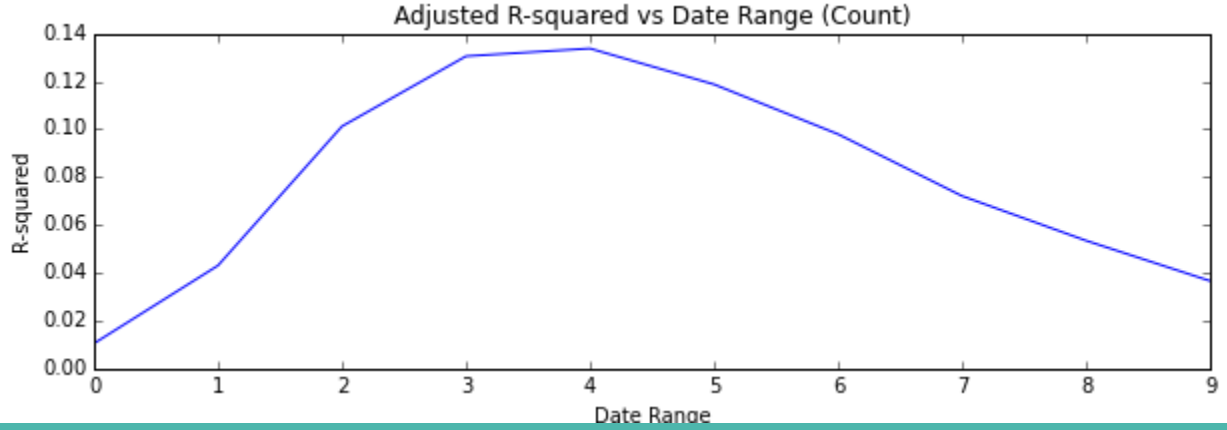
- Average Gross Before and After
- Number of Movies Before and After
- Total Gross Before and After

Date range intervals of 300: 300, 600, 900, 1200, 1500, etc.

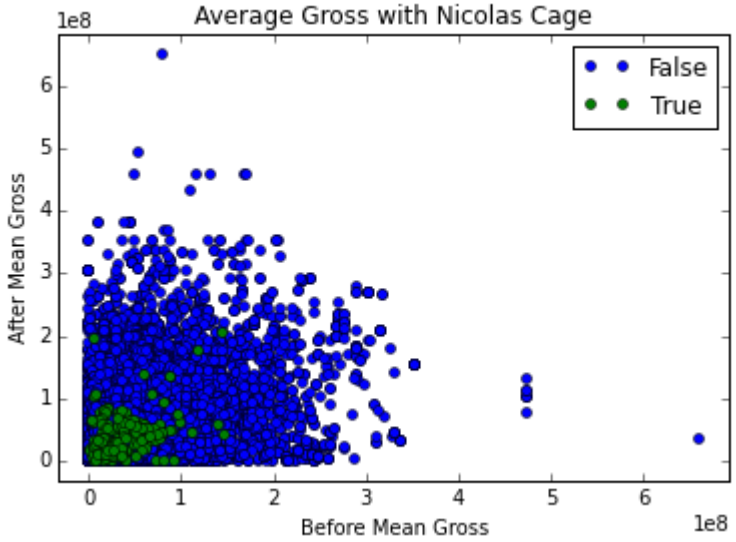
Results

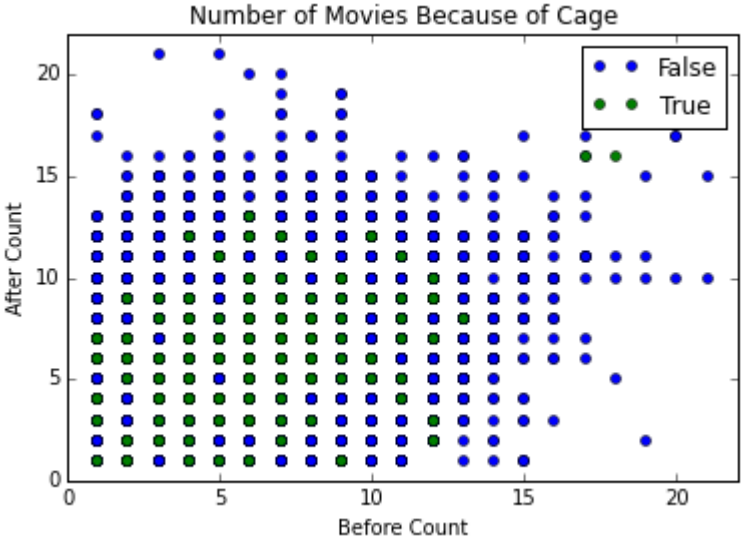
Finding a Model





Result Scatter Plots Based on 1200 Day Range





Coefficients

Dep. Variable:	after_movie_count	**R-squared:**	0.132
Model:	OLS	**Adj. R-squared:**	0.132
Method:	Least Squares	**F-statistic:**	960.4
Date:	Thu, 08 Oct 2015	**Prob (F-statistic):**	0.00
Time:	22:17:09	**Log-Likelihood:**	-45123.
No. Observations:	18903	**AIC:**	9.025e+04
Df Residuals:	18899	**BIC:**	9.029e+04
Df Model:	3		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**
Intercept	3.2932	0.042	79.006	0.000	3.212 3.375
nc_movies[T.True]	1.1052	0.230	4.815	0.000	0.655 1.555
before_movie_count	0.3646	0.007	53.091	0.000	0.351 0.378
before_mean_gross	-1.95e-09	4.25e-10	-4.589	0.000	-2.78e-09 -1.12e-09

Mean Square Error

6.88