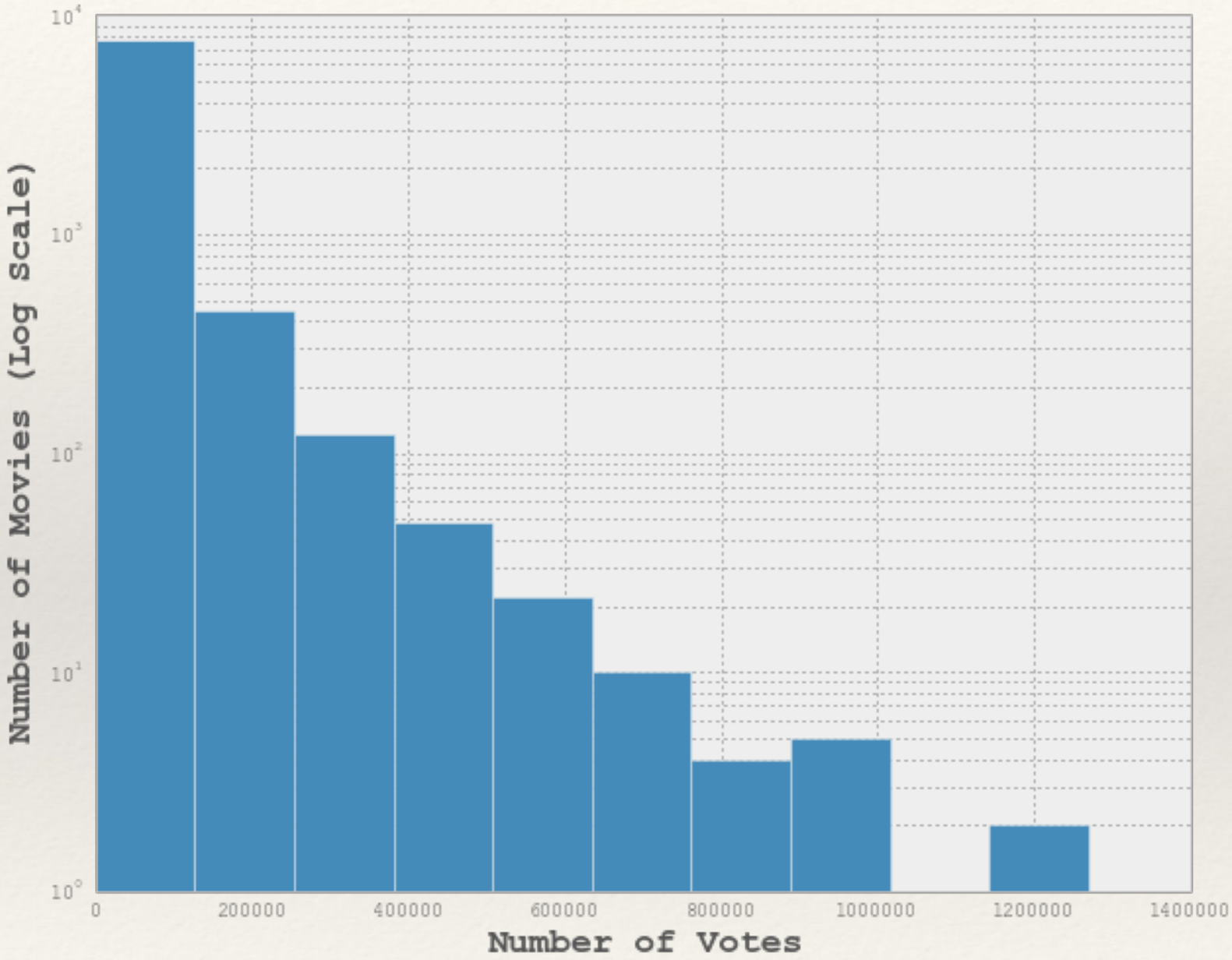
Movie Studio Presentation

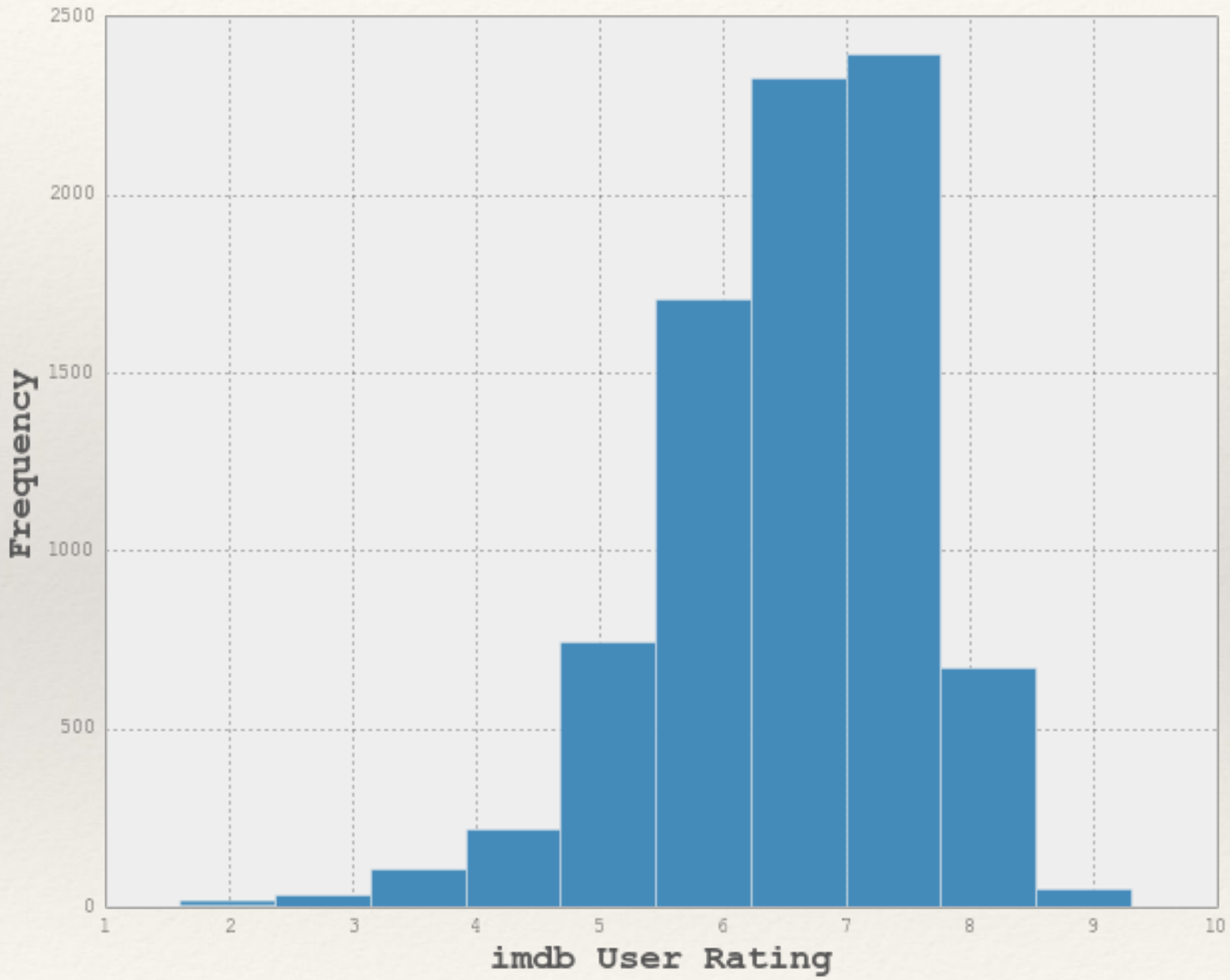
Predicting Movie Opinions of the Crowd

Gabriel Gluck

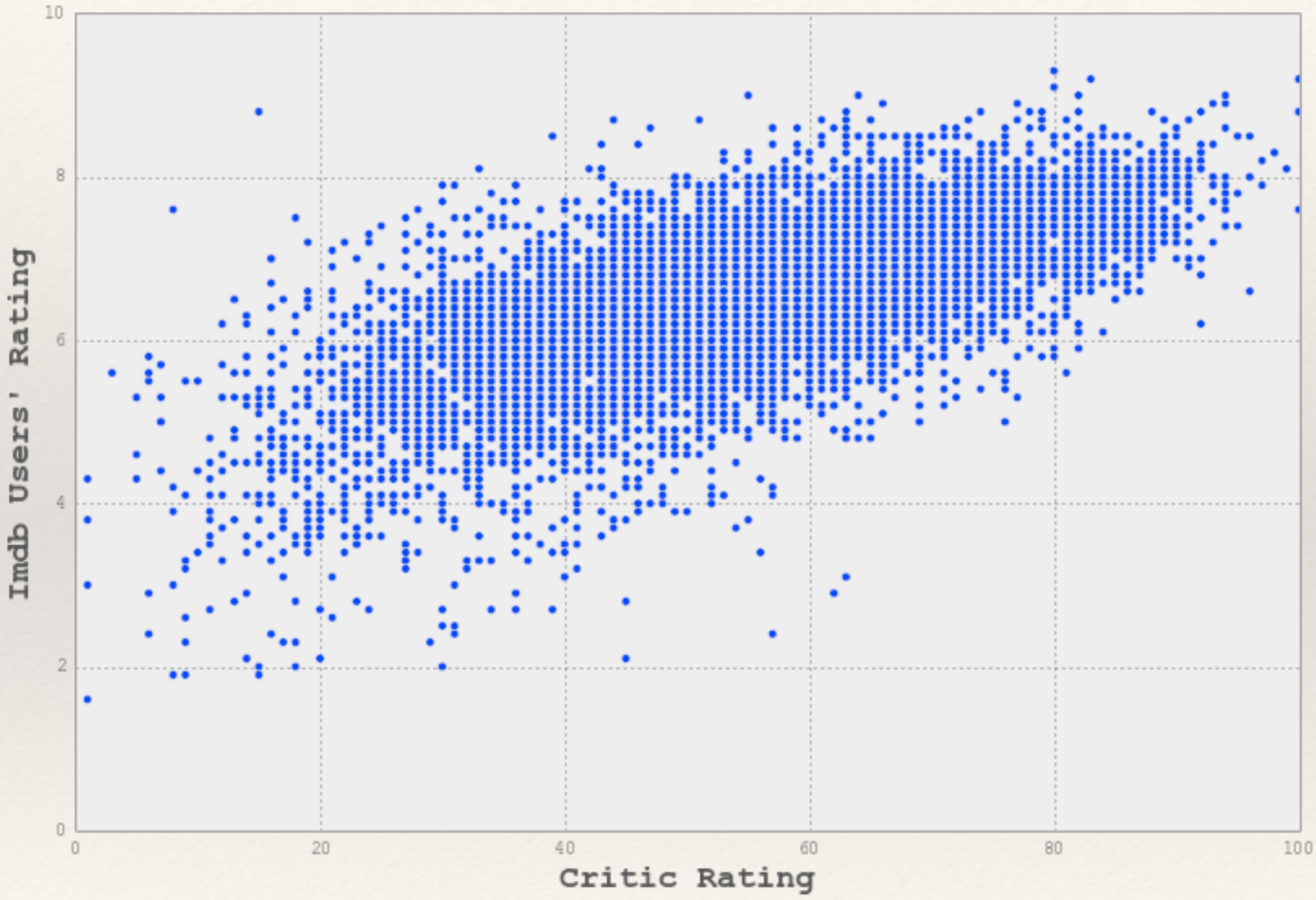
IMdb Votes as Proxy



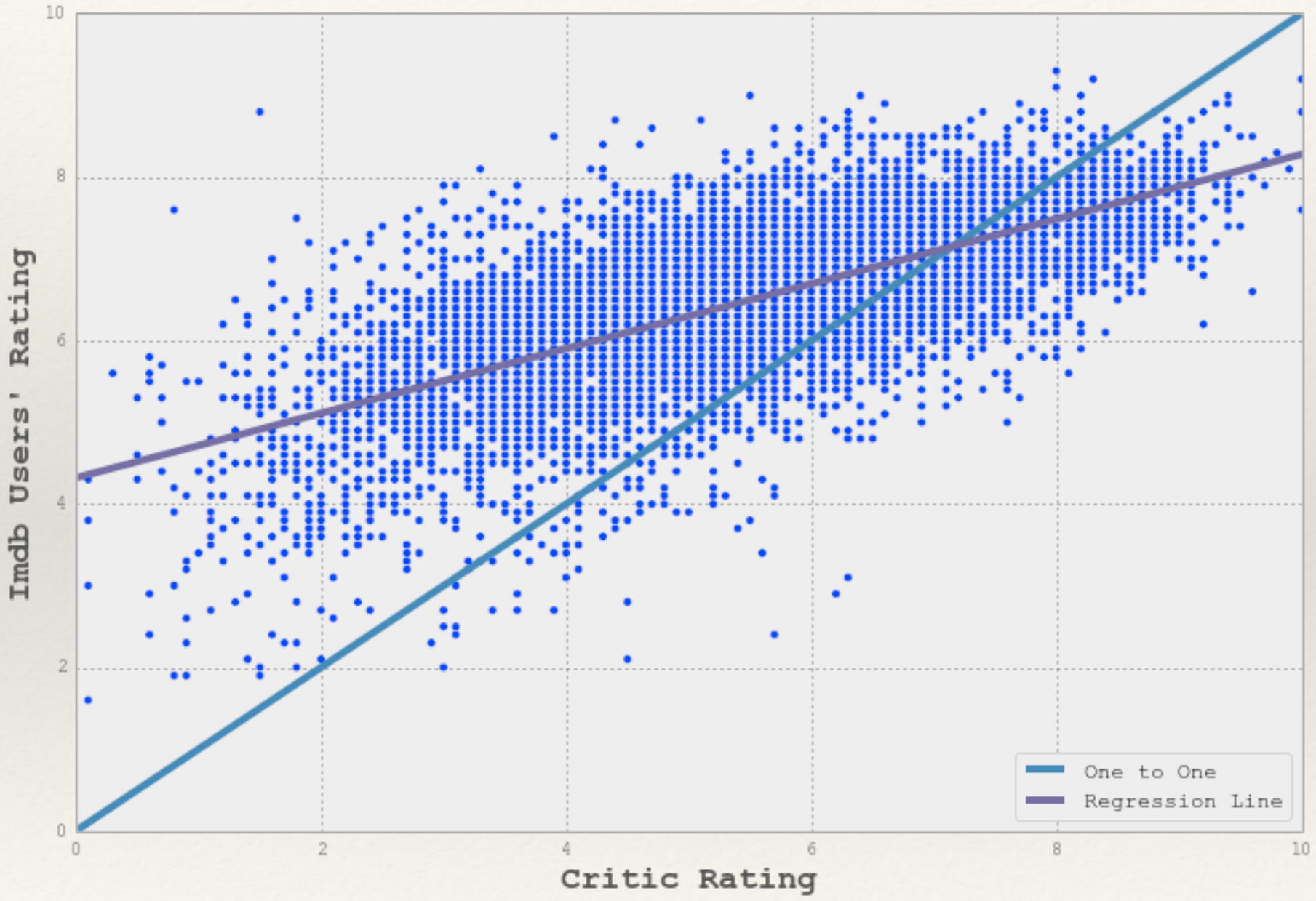
Distribution of IMdb user ratings



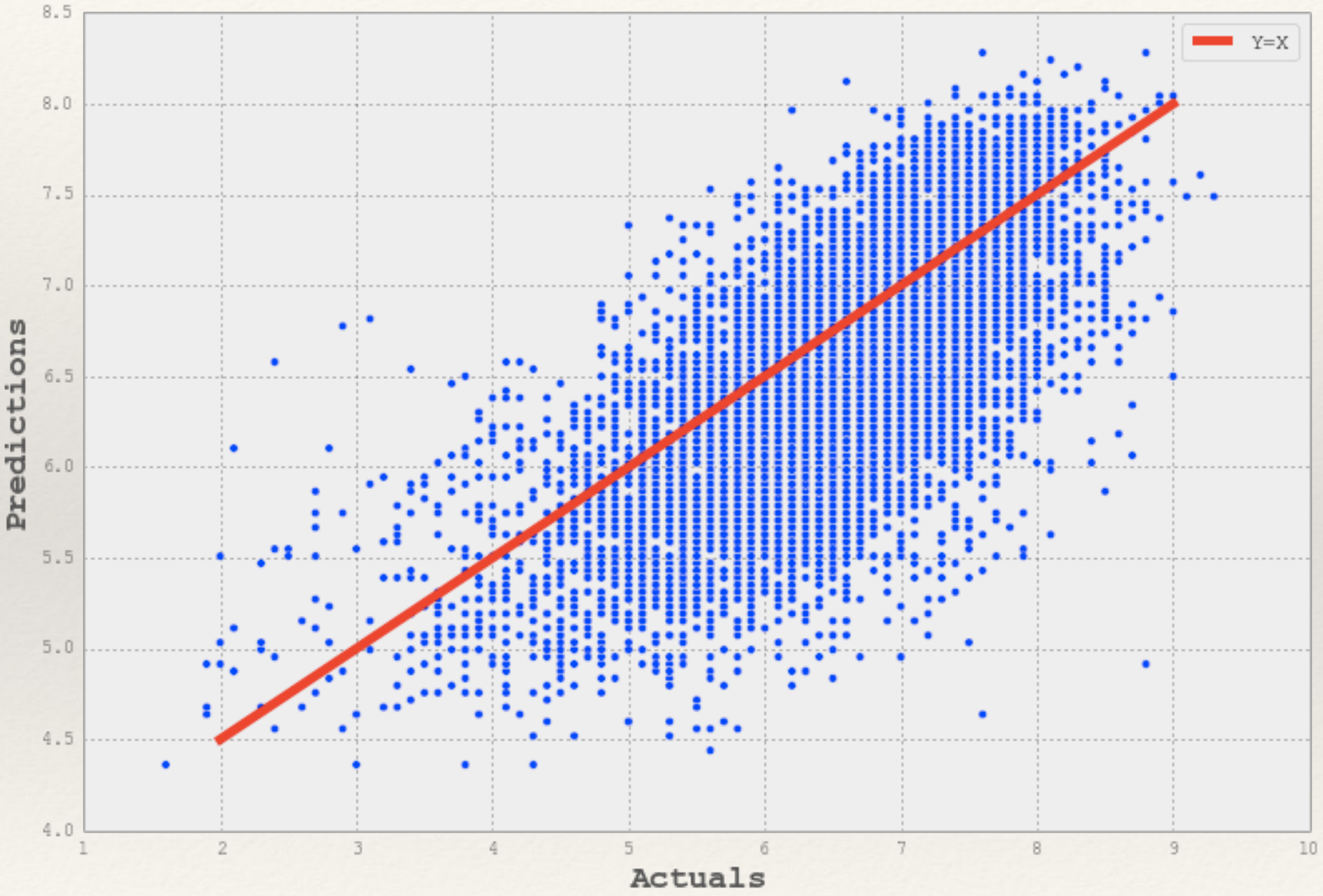
Critic Ratings versus IMdb Ratings



Model with just critic rating



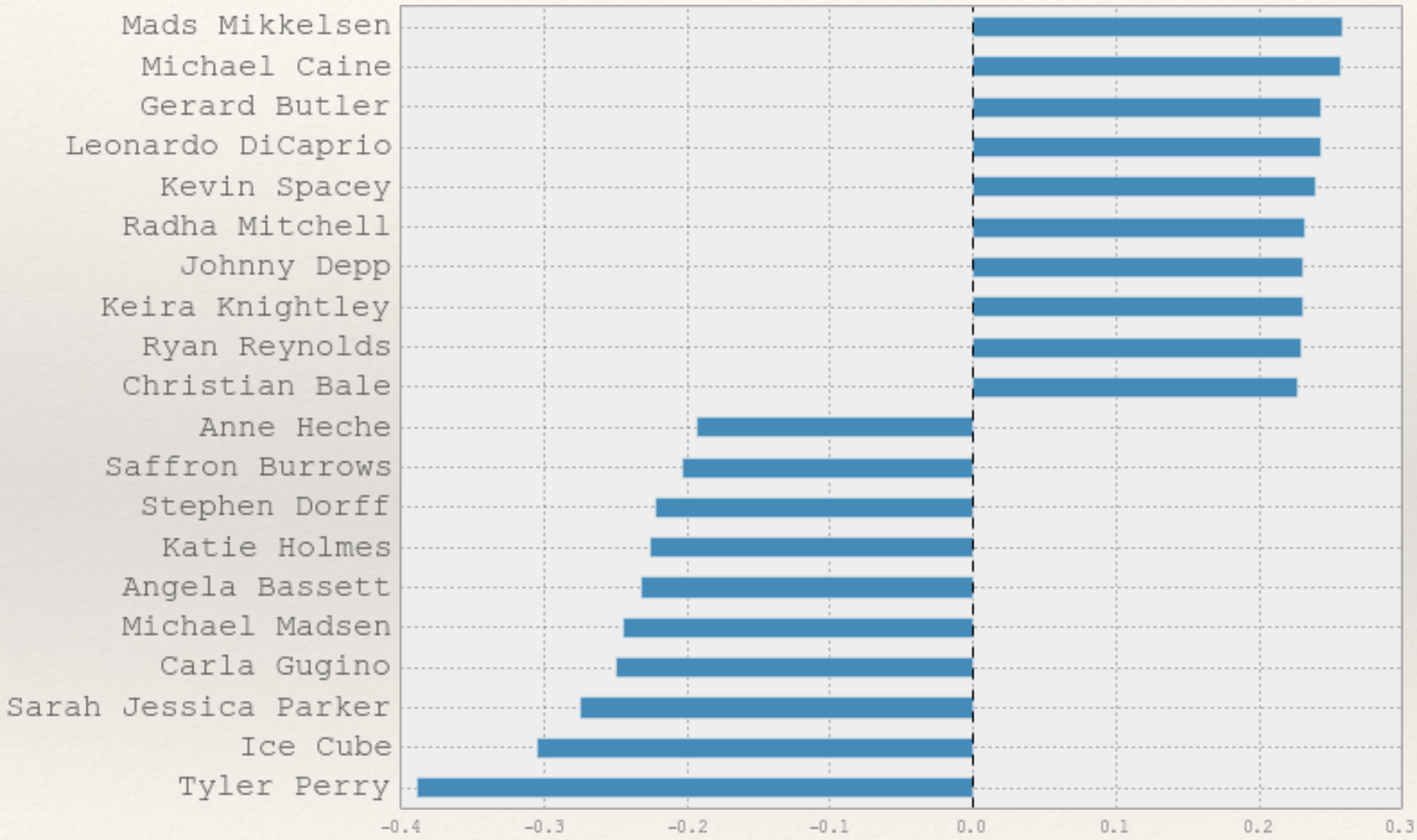
Actual opinions versus predictions



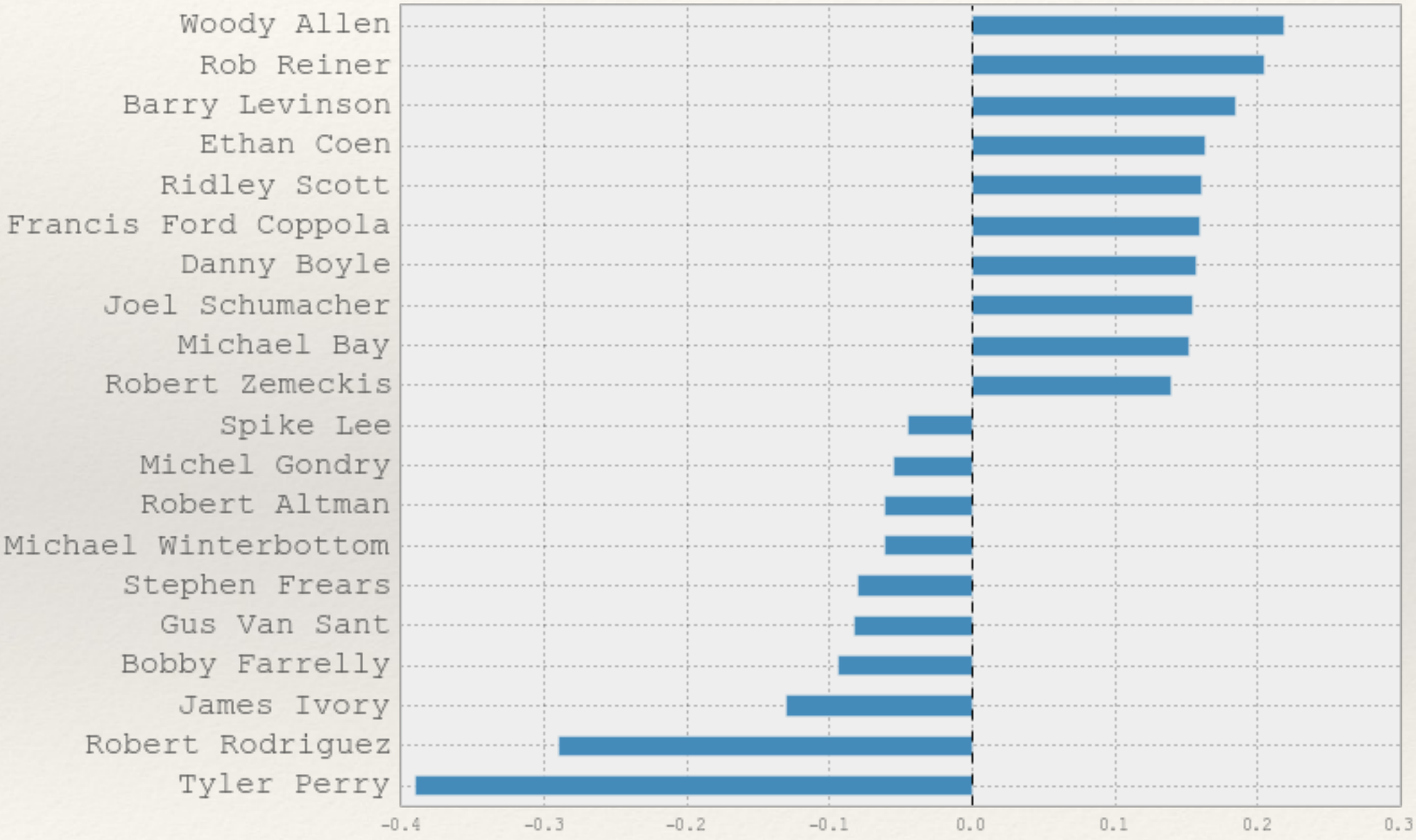
Adding more features

- Top 500 Actors by number of appearances
- Top 50 Directors by number of appearances
- All 25 Genres

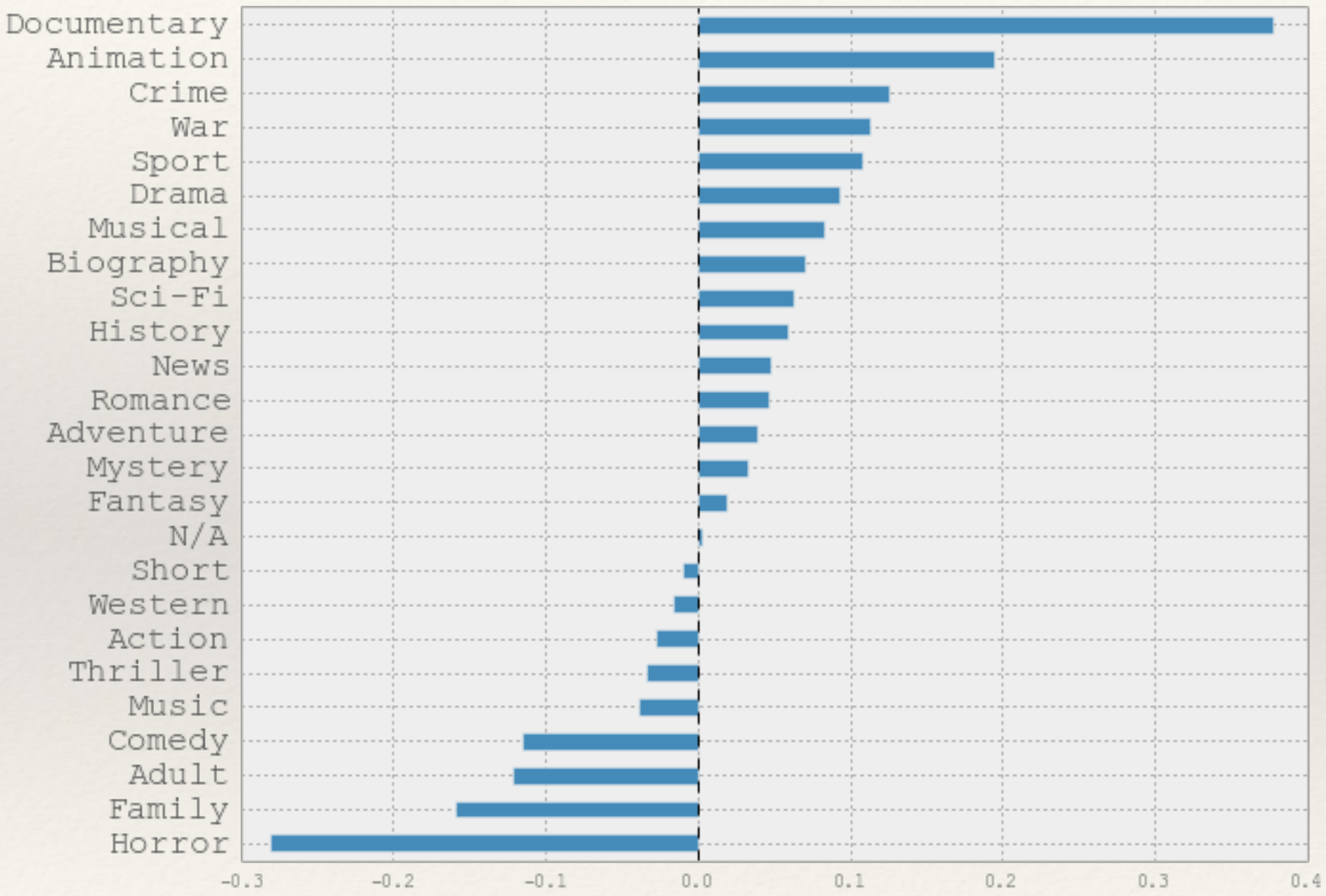
Actors

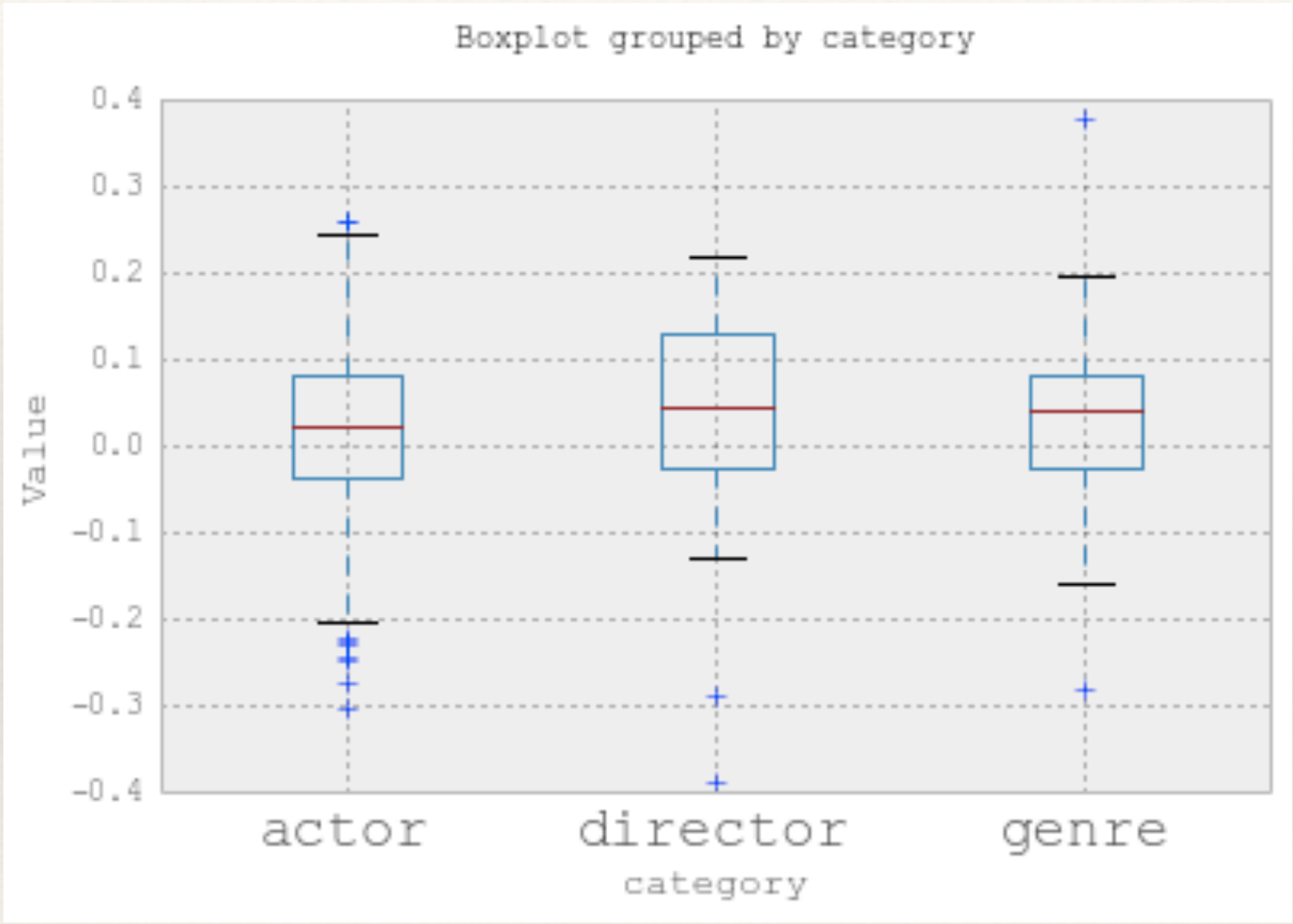

Mads Mikkelsen
Michael Caine
Gerard Butler
Leonardo DiCaprio
Kevin Spacey
Radha Mitchell
Johnny Depp
Keira Knightley
Ryan Reynolds
Christian Bale
Anne Heche
Saffron Burrows
Stephen Dorff
Katie Holmes
Angela Bassett
Michael Madsen
Carla Gugino
Sarah Jessica Parker
Ice Cube
Tyler Perry
-0.4
-0.3
-0.2
-0.1
0.0
0.1
0.2
0.3

Directors

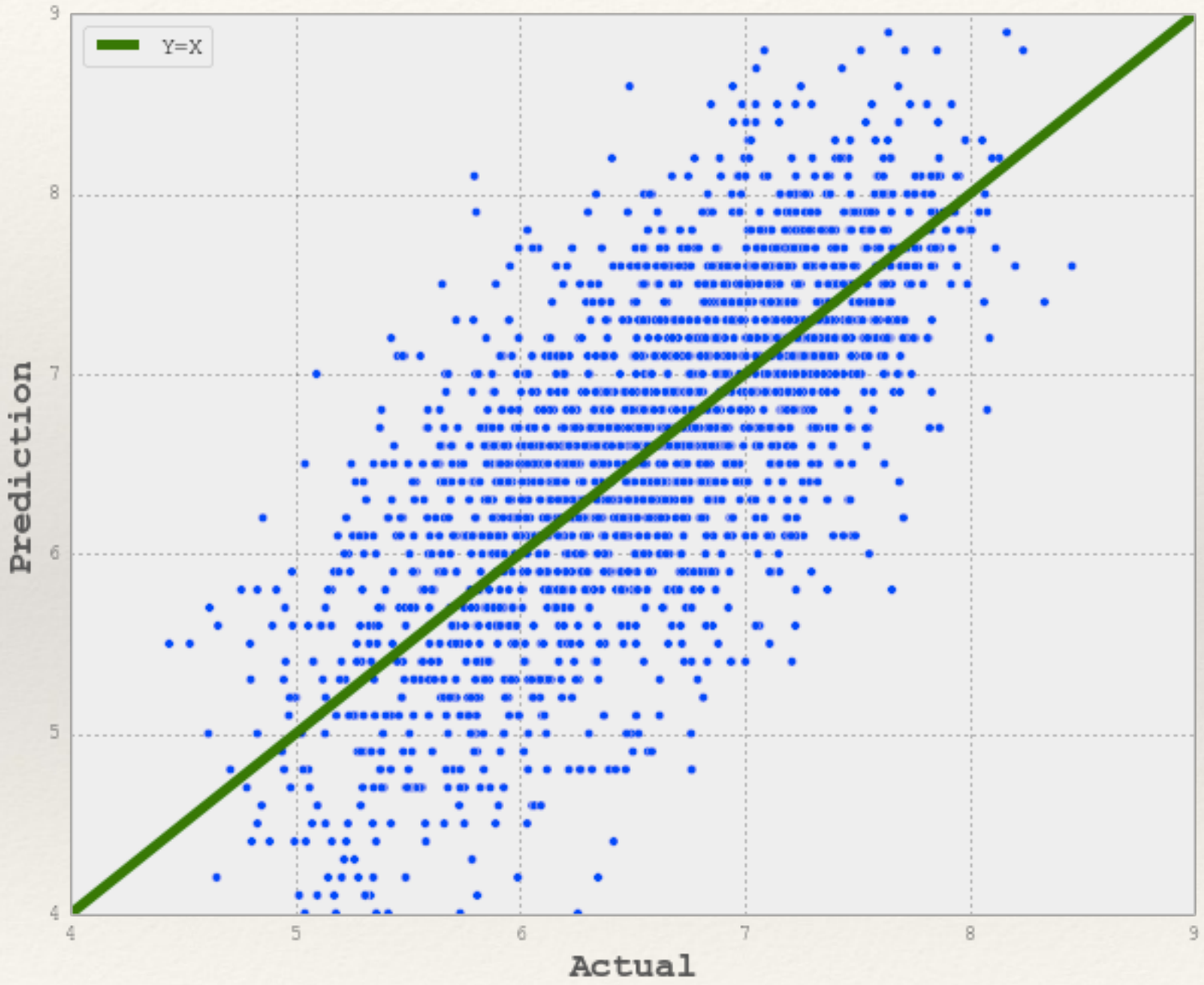

Woody Allen
Rob Reiner
Barry Levinson
Ethan Coen
Ridley Scott
Francis Ford Coppola
Danny Boyle
Joel Schumacher
Michael Bay
Robert Zemeckis
Spike Lee
Michel Gondry
Robert Altman
Michael Winterbottom
Stephen Frears
Gus Van Sant
Bobby Farrelly
James Ivory
Robert Rodriguez
Tyler Perry
-0.4
-0.3
-0.2
-0.1
0.0
0.1
0.2
0.3

Genres

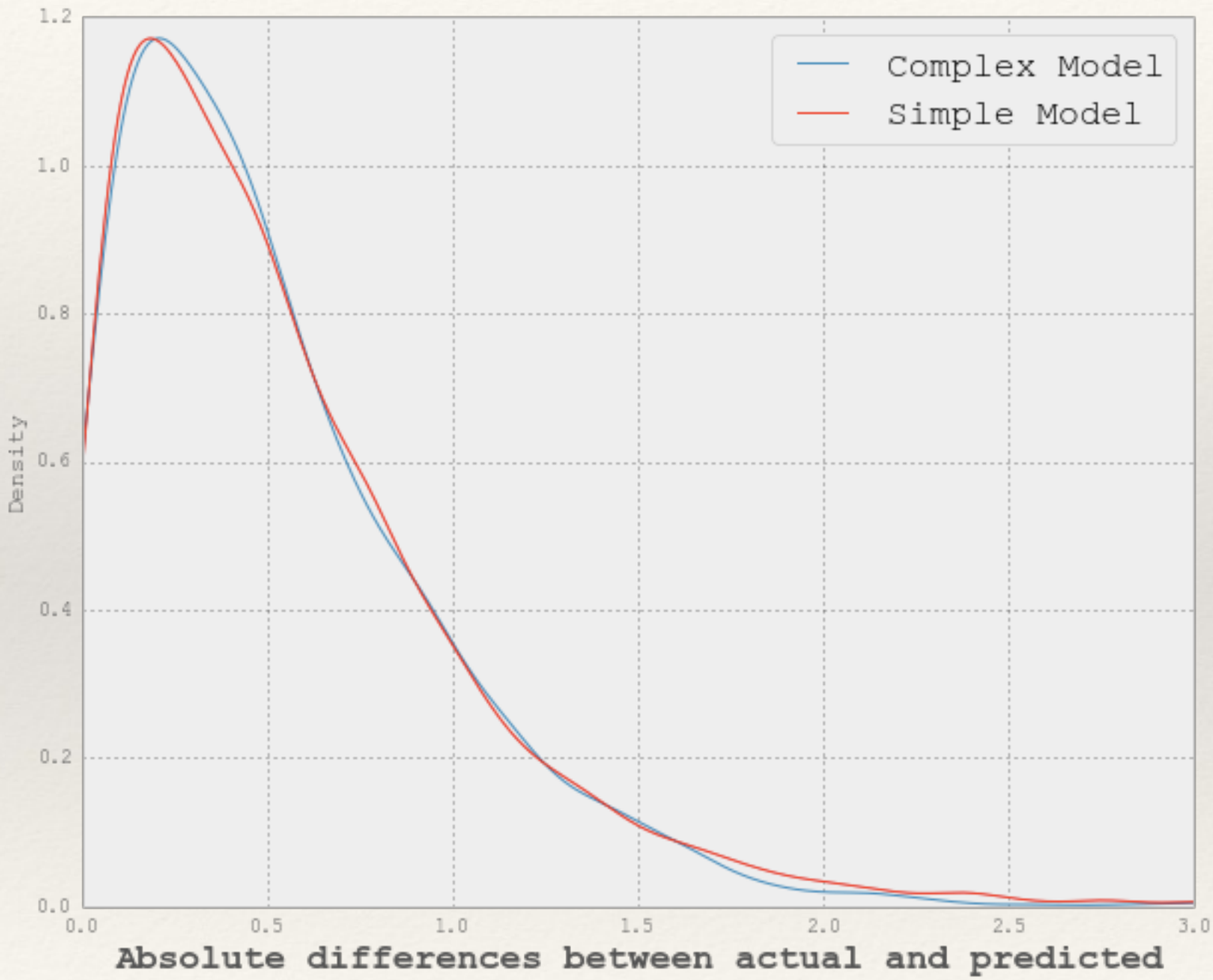

Documentary
Animation
Crime
War
Sport
Drama
Musical
Biography
Sci-Fi
History
News
Romance
Adventure
Mystery
Fantasy
N/A
Short
Western
Action
Thriller
Music
Comedy
Adult
Family
Horror
-0.3
-0.2
-0.1
0.0
0.1
0.2
0.3
0.4


Boxplot grouped by category
0.4
0.3
0.2
0.1
0.0
-0.1
-0.2
-0.3
-0.4
Value
actor
director
genre
category

Comparing predictions versus actual values



Comparison of models



The future!

- “Prediction is very difficult, especially about the future”