



Women, Dialogue, and the Box Office

The Case for Hollywood to Make Films that
Humanize Women

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Metis NYC DS9

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October 7, 2016

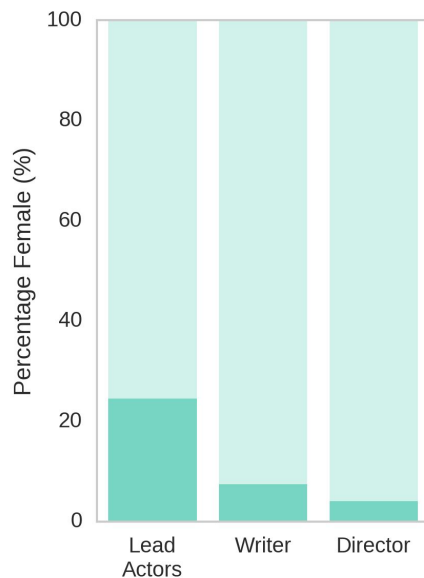


Hollywood has a gender problem

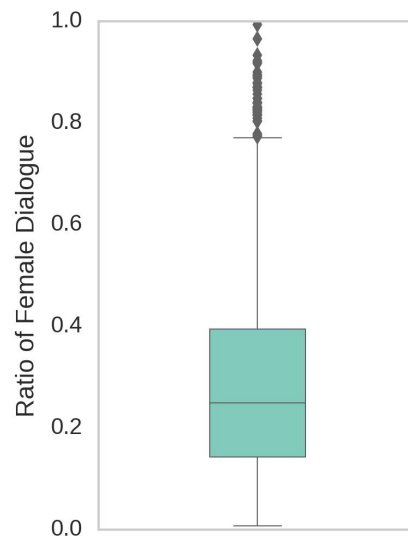
- 1. Does data prove the existence of this gender bias?*
- 2. Is there a financial case for Hollywood to make more films
starring, written by, and directed by women?*

Defining gender features: measuring the presence (or lack) of women in the filmmaking process

Gender Proportion



Dialogue by Gender



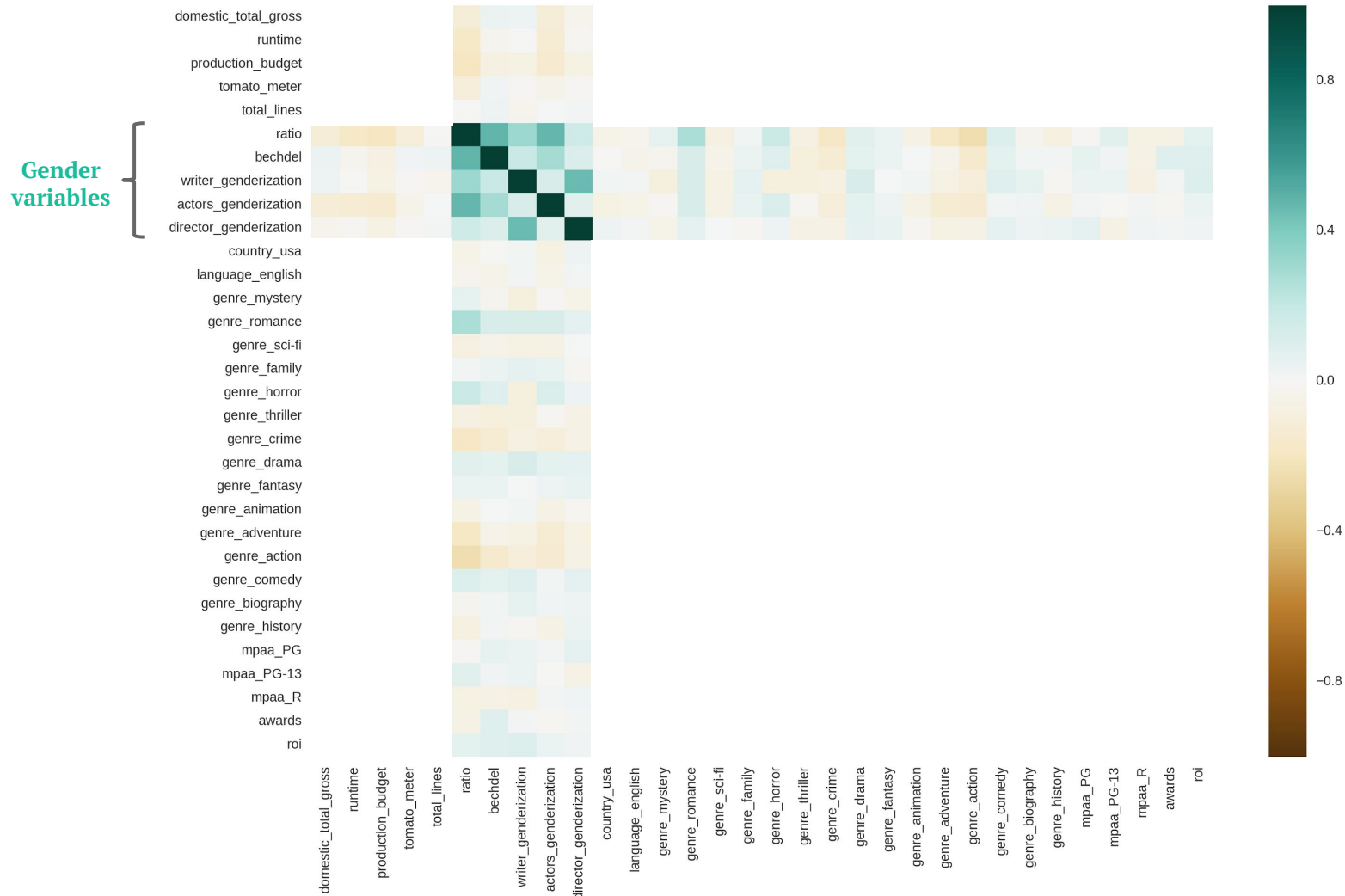
Bechdel Test

A film passes the Bechdel test if it:

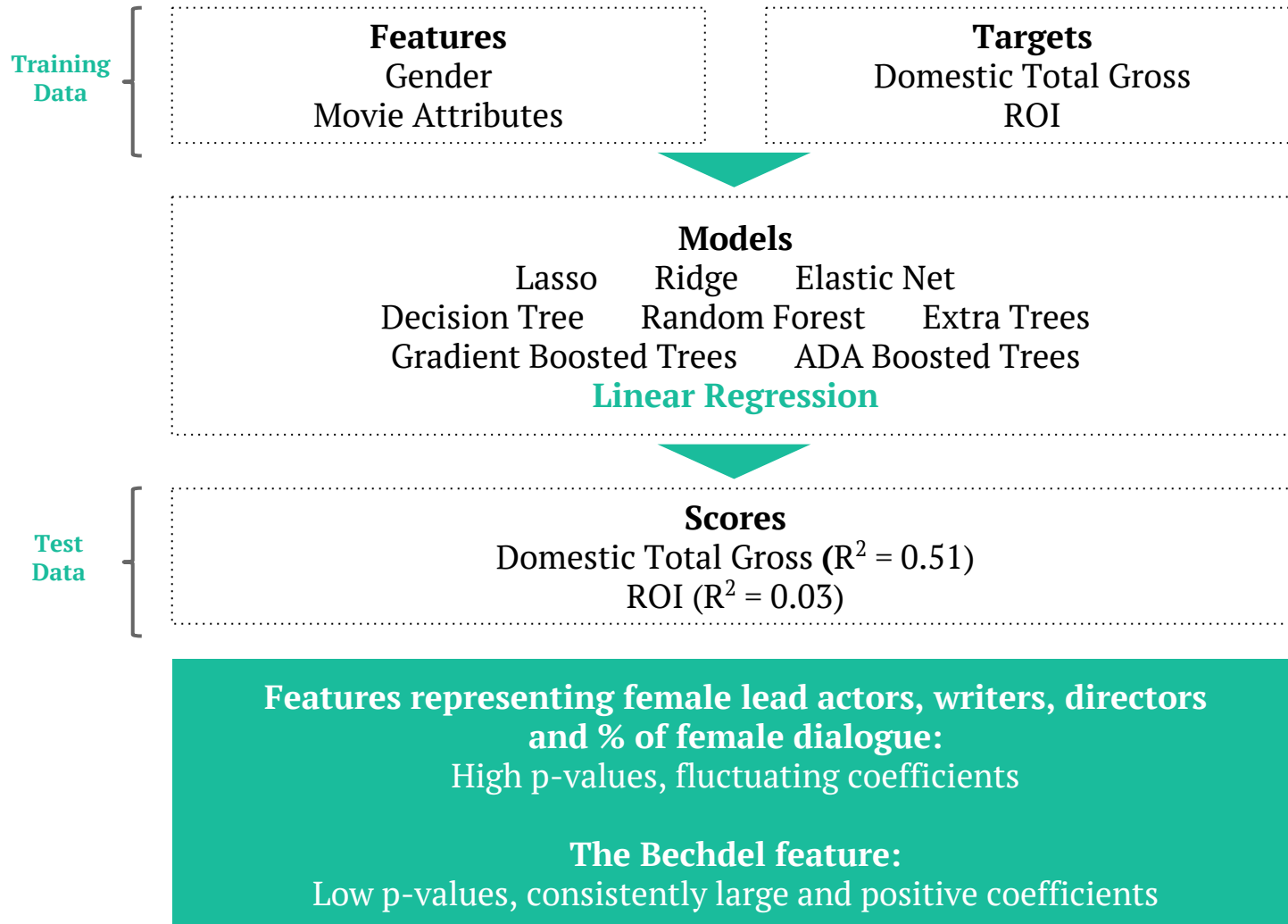
1. Has at least two [named] women
2. Who talk to each other
3. About something besides a man

Only **50%**
of films pass

Are other movie attributes correlated with gender features?



Testing for significance





No evidence to support that lead actresses, an increased proportion of female dialogue, or films made by women lead to lower returns

The cost of objectifying women:
\$22 million* per film in domestic total gross

* Based on Bechdel coefficient in Linear Regression Model with $R^2 = .51$

Image Credit: New York Times



thanks!

Any questions?

You can find me at
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Sources and Tools

▣ Data

- [Box Office Mojo](#)
- [Bechdel Test](#)
- [OMDB \(Open Movie Database\)](#)
- [Polygraph's Film Dialogue Dataset](#)

▣ Python Packages

- Pandas
- Matplotlib
- Seaborn
- BeautifulSoup
- Genderizer
- Statsmodel
- Sklearn