

# Predicting the Academy Awards

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OR: HOW I LEARNED TO STOP GUESSING  
AND LOVE THE MODEL

# The Question

Can we predict the winners at the Academy Awards?

# The Data

## Critics

- Rotten Tomatoes
- Metacritic

## Awards

- Golden Globes
- BAFTAS
- Guild Awards (PGA, DGA, WGA, SAG)

# The Process

## Logistic Regression

4 Models:

- Picture
  - 76% Recall
- Director
  - 98% Recall
- Screenplay (Original/Adapted)
  - 87% Recall
- Actor (Male/Female, Lead/Supporting)
  - 87% Recall

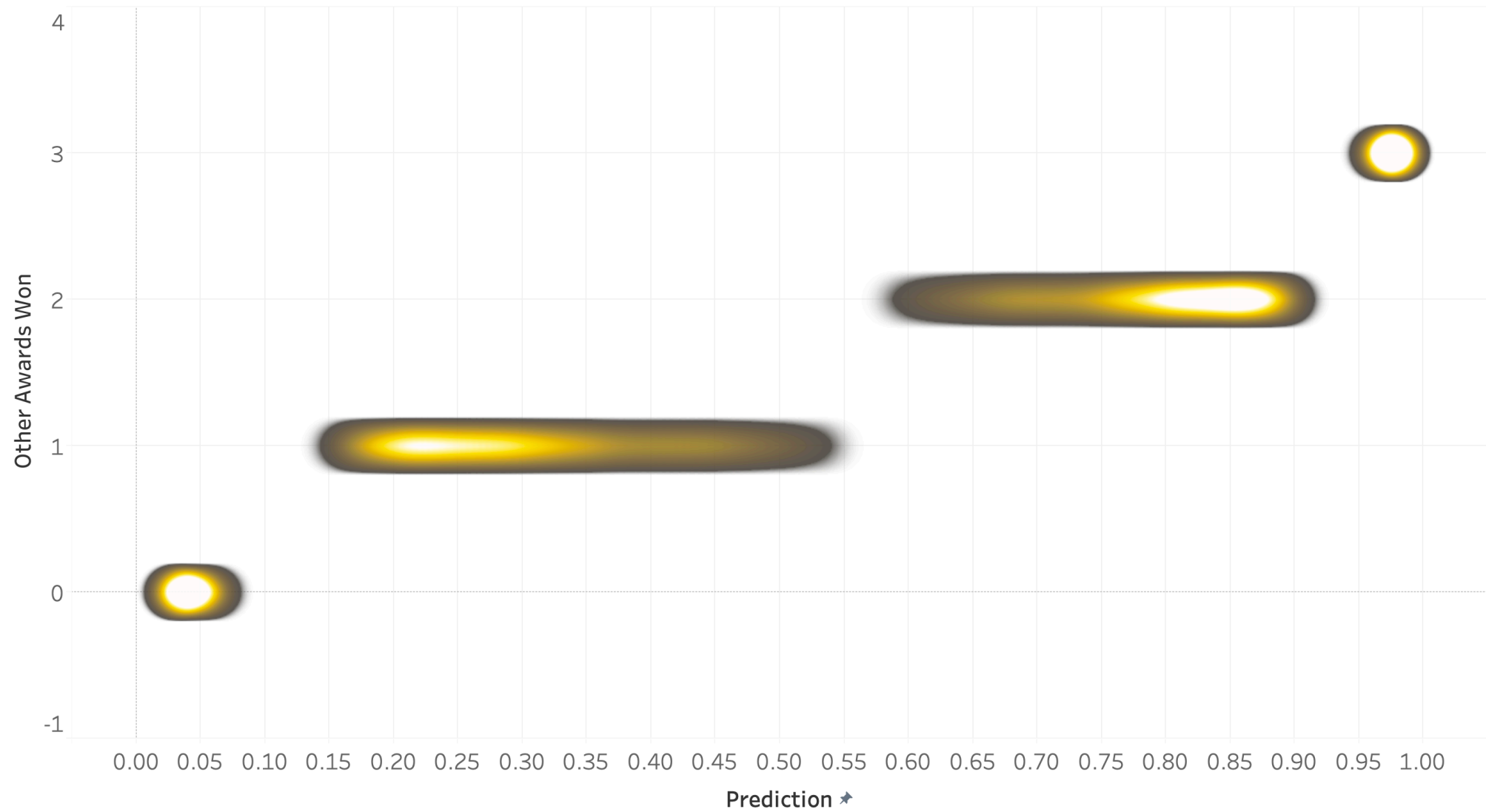
# The Results

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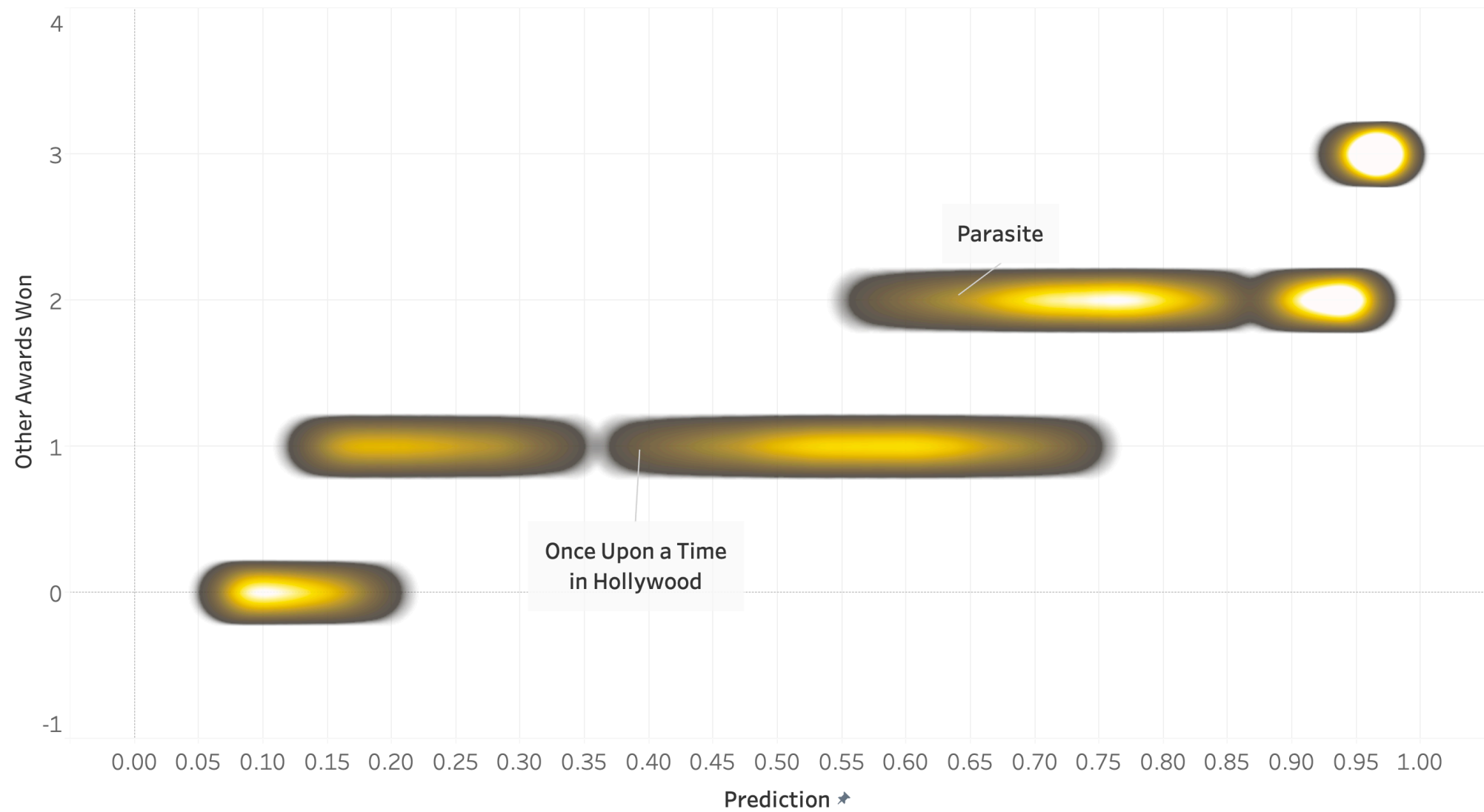
Category	Prediction	Winner
Best Picture	<i>1917</i>	<i>Parasite</i>
Best Director	Sam Mendes, <i>1917</i>	Bong Joon-Ho, <i>Parasite</i>
Best Original Screenplay	<b>Bong Joon-Ho &amp; Han Jin-Won, <i>Parasite</i></b>	Bong Joon-Ho & Han Jin-Won, <i>Parasite</i>
Best Adapted Screenplay	<b>Taika Waititi, <i>JoJo Rabbit</i></b>	Taika Waititi, <i>JoJo Rabbit</i>
Best Actor	<b>Joaquin Phoenix, <i>Joker</i></b>	Joaquin Phoenix, <i>Joker</i>
Best Actress	<b>Renée Zellweger, <i>Judy</i></b>	Renée Zellweger, <i>Judy</i>
Best Supporting Actor	<b>Brad Pitt, <i>OUATIH</i></b>	Brad Pitt, <i>OUATIH</i>
Best Supporting Actress	<b>Laura Dern, <i>Marriage Story</i></b>	Laura Dern, <i>Marriage Story</i>

What Went  
Right?

## Will This Actor Win an Oscar?



## Will This Screenplay Win an Oscar?





What Went  
Wrong?

# Will This Film Win the Best Picture Oscar?

Nominated for Best Director

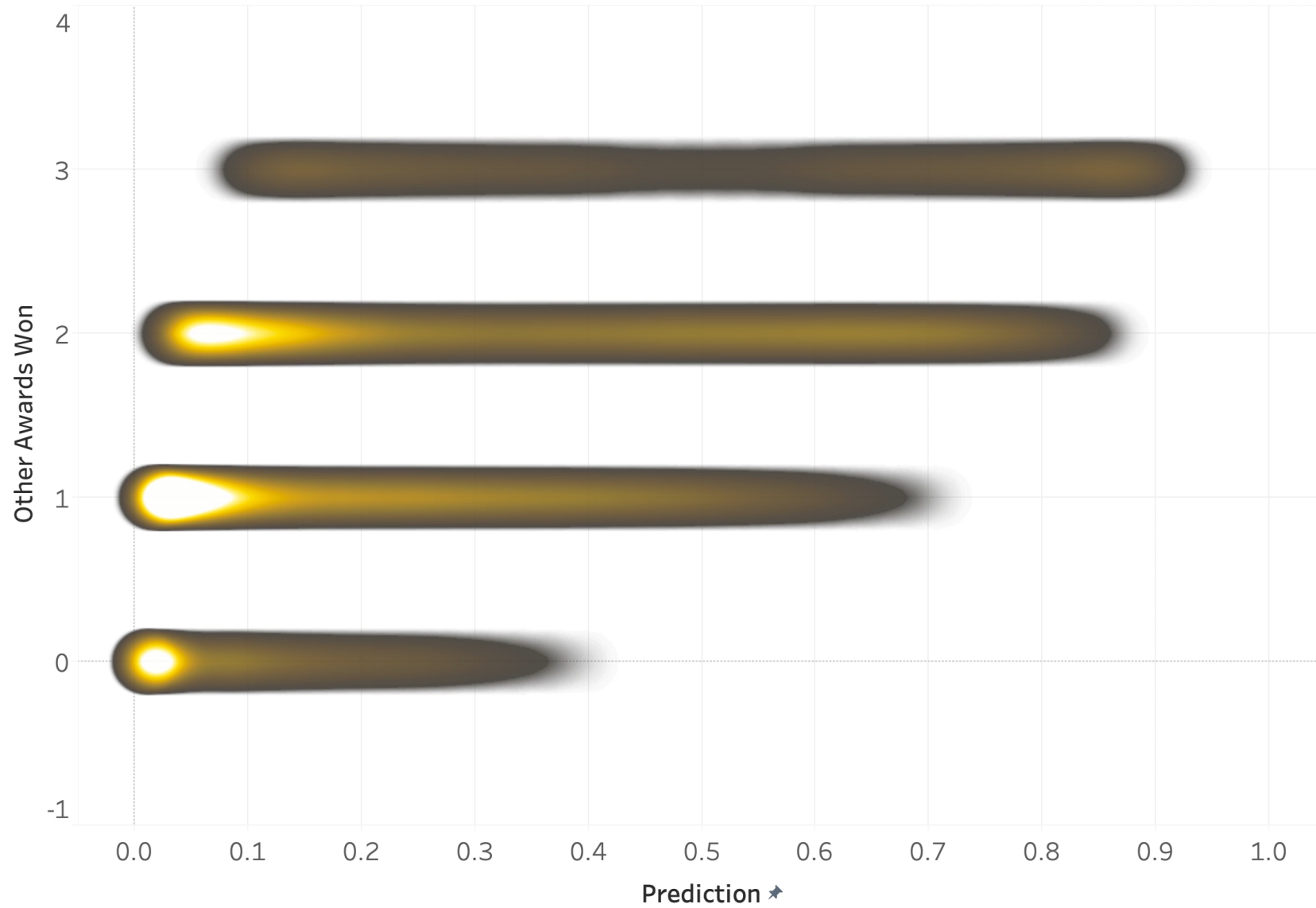
☒ (All)

☐ No

☐ Yes

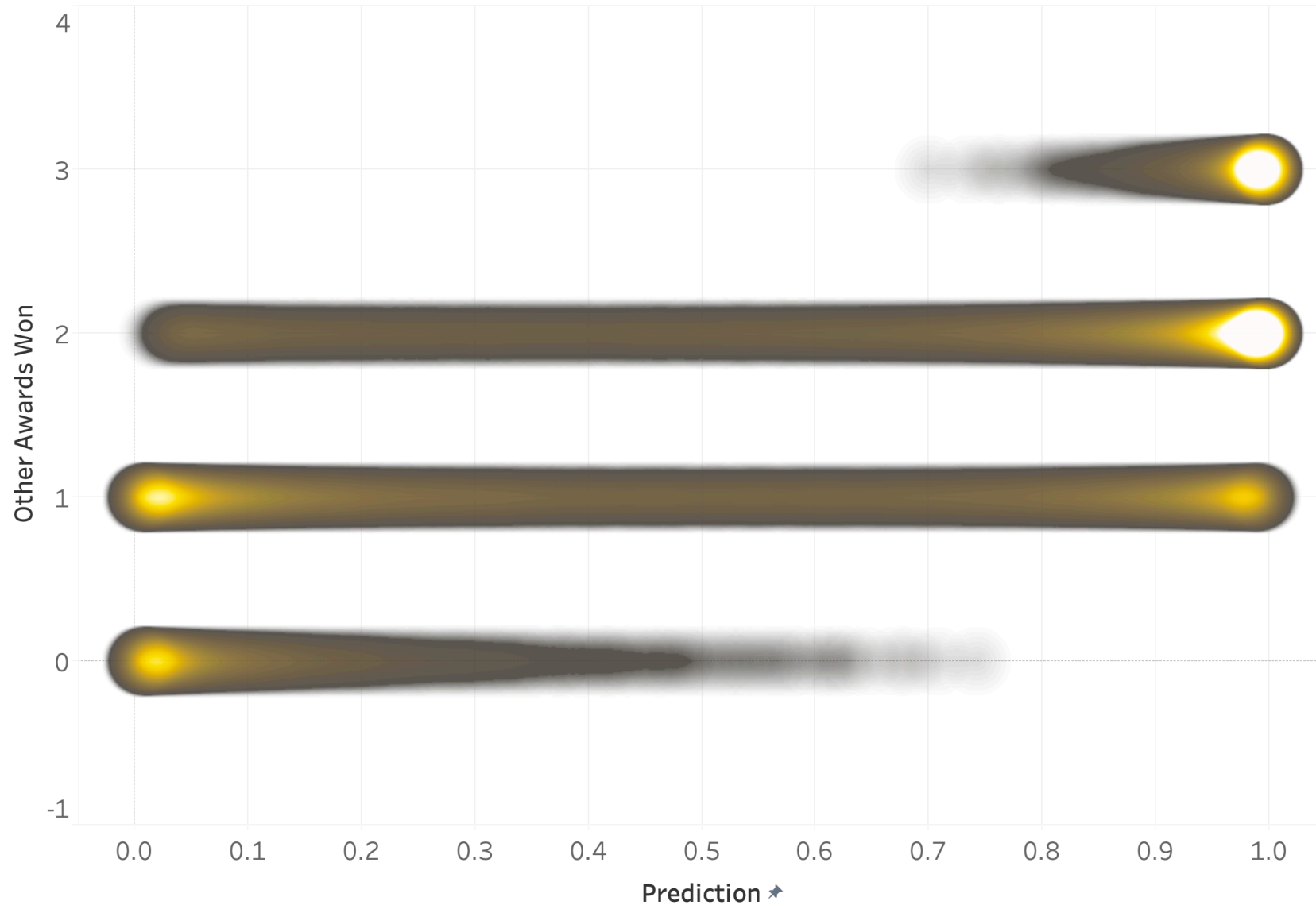
Number of Nominations

(All)



# Will This Director Win an Oscar?

Number of Nominations

# What Next?

## Features:

- Summary
- Previous Nominations
- Previous Wins
- Other Awards Won

# What Next?

Predict more categories

Predict whether a film  
will receive a nomination

Questions?  
Comments?  
Concerns?  
Hopes?  
Dreams?  
Aspirations?