Handout 12: Interpret a slope and intercept from a multivariate regression model

Interpret the slope on year in a single sentence:

0.324

0.059

I(Runtime - 90)

I(BoxOffice - 45)

The model predicts that, when comparing movies of the same runtime and box office returns, a movie produced one year later has 0.32% higher percent of positive reviews, on average.

0.000

0.000

Interpret the slope on runtime in a single sentence:

The model predicts that, holding constant year of release and box office returns, a one minute increase in movie runtime is associated with a 0.32% higher percent of positive reviews, on average.

Interpret the intercept in a single sentence:

The model predicts that a 90-minute movie released in 2001 that made 45 million in box office returns would get 40.8% positive reviews, on average.

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0.032 10.227

0.008 7.349