

Practice: Fitting a Simple Logistic Model for Reaction Time

Open the **Impurity Logistic.jmp** file. Use **Fit Y by X** to fit a logistic regression model for **Outcome** (as **Y, Response**) versus **Reaction Time** (as **X, Factor**).

1. What is the estimated slope coefficient for **Reaction Time**?

The estimated slope coefficient for **Reaction Time** is approximately -0.19.

2. What is the p -value for reaction time in the Parameter Estimates table?

The p -value for **Reaction Time** is 0.2403.

3. Is **Reaction Time** a significant predictor of **Outcome**?

No, the slope coefficient for **Reaction Time** is not significant. As the value of **Reaction Time** changes, the probability of **Fail** does not change by a significant amount.

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