Statistical inference & linear Regression

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RQ: "Can we use a student's word task time to predict his or her color task time?"

- Does the color in which words are printed affect your ability to read them?
- Do the words themselves affect your ability to name the color in which they are printed?

However, assume all conditions the linear regression t-test to research question.

RQ: "Can we use a student's word t

LSRL: y = 4.393

Hypotheses:

 $H_0: \beta = 0$ Where β is the true slope of the LSRL of time for w

Ha: p = 0 Tost

 $t = \frac{b - \beta}{1.535 - 0} = 2.6799 \text{ p-value} = .0179$

Since pivalue, 0.0179, is smaller than the significant level $\alpha = 0.05$

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