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Primary Research Question

How has the men's shotput world record changed over time? What about the women's world record?

(6/6 points)

Write Your Conclusion

Answer the question and support your answer with statistics:

Based on scatterplots of the men's and women's world record shotput distance, both of these events follow a strong, positive linear relationship over time. The men's world record distance increases by an average of 0.134 meters per year, while the women's record distance increases by an average of 0.234 meters per year. Because the intercept estimate is the value of the record distance when year is equal to 0, it is not interpretable in the context of the problem. Both linear models fit the data well, with R-squared values for the men's and

women's models equal to 0.941 and 0.962 , respectively.

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