SOC 5050: Lab 14

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Directions

Please complete all steps below. Your final work by hand, do-file, log-file, plots, and markdown file with answers should be uploaded to your GitHub assignment repository by 4:20pm on Monday, November 28th, 2016.

Regression Model 1: Vehicle Cost and Place of Manufacture

1. Construct a hypothesis and null hypothesis for the relationship between cost (`price`) and place of manufacture (`foreign`).
2. Construct a regression equation modeling how `foreign` affect `price` on a separate piece of paper. Scan this and turn it in with your repository.
3. Execute a bivariate regression model that shows how `foreign` affects `price`. For this model, do not use robust standard errors. Fully interpret the results of this model.
4. Execute a bivariate regression model that shows how `foreign` affects `price`. For this model, use robust standard errors. How do the reported results change?

Regression Model 2: Vehicle Weight and Length

5. Construct a hypothesis and null hypothesis for the relationship between vehicle `weight` and `length`.
6. Construct a regression equation modeling how `length` affects `weight` on a separate piece of paper. Scan this and turn it in with your repository.
7. Execute a bivariate regression model that shows how `length` affects `weight`. For this model, use robust standard errors. Fully interpret the results of this model.

Document Details

Document produced by Christopher Prener, Ph.D. for the Saint Louis University course SOC 5050 - QUANTITATIVE ANALYSIS: APPLIED INFERENTIAL STATISTICS. See the course wiki and the repository `README.md` file for additional details.