Exam 01 Review

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10.09.19

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Announcements

- HW 04 **due Thursday at 11:59p**

- Thursday's Lab: Exam help hours

Exam I Outline

- Short answer questions

- Permitted to bring one sheet of <u>handwritten notes</u> (front and back)

    - Must turn in notes with exam. Put your name at the top of your notes.

    - You will <u>not</u> be permitted to use your notes if they are not handwritten

- Calculator **not** permitted on exam

- Please use blue or black ink pen!

STA 210

Topics

- Regression Basics

    - Interpreting coefficients

    - Inference for regression

    - Predicted values and the appropriate interval

    - Regression assumptions

- ANOVA to compare group means

- ANOVA for regression

Topics

- Transformations on the predictor or response variables

    - Determining if transformation is required

    - Interpreting coefficients on transformed and original scales

    - Calculating predicted values on transformed and original scales

- R^2 versus Adjusted R^2

- Special predictors: indicator variables and interaction terms

Topics

- Interaction terms

- Nested F Test

- High leverage, outliers, and influential points

    - Basic ideas - no calculations

- Multicollinearity

    - Basic ideas - no calculations

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Questions?

Practice

Cars analysis

- Sit with your lab group.

- Copy the **Exam 01 Review** project on RStudio Cloud to type your responses in the R Markdown file.

- You can also find the application exericse on the course schedule.