Midsemester Check-in + Quiz study tips

Things the teaching team can do

- Brief review of key ideas from videos during live lecture

- More instruction at beginning of lab

- More guidance on preparing for quiz

Things you can start / keep doing

- Keep up with and review course materials

  - Use lecture recordings in Sakai for AE solutions + coding

- Attend office hours

  - See office hours schedule on <u>course homepage</u> (Zoom links in Sakai)

Tips to prepare for Quiz 02

Topics (weeks 05 - 08)

- Comparing means with ANOVA

- Multiple comparisons

- Introduction to multiple linear regression

- Inference for regression coefficients

- Types of predictors in regression (categorical, mean-centered, interaction terms, etc.)

- Conditions for multiple linear regression

- Variable transformations (transformation on response variable only)

Tips

- Review course materials (lectures, AEs, assignment solutions)

- Use readings posted in course schedule for additional examples and practice problems

- Make a page of notes summarizing the material

  - Helps with studying
  - Helps make notes easier to navigate during quiz

Tips

- Don't just memorize things, ask "why" questions as you review the material

    - Example: We include ϵ when we write a statistical model

$$y = \beta_0 + \beta_1 x + \epsilon, \epsilon \sim N(0, \sigma_\epsilon^2)$$

    but not when we write the regression equation

$$\hat{y} = \hat{\beta}_0 + \hat{\beta}_1 x$$

    Why?

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