

ImerTest: Exercises for Friday afternoon

1. TVbo

- Look at the examples from the lecture and replicate the code (**lecture_ImerTest_Rcode.R**)
- Summarize the data via **str(TVbo)**
- If needed convert to factors some variables, like e.g.
 - **TVbo\$Assessor<- as.factor(TVbo\$Assessor)**
- Select one of the sensory attributes as a response variable and try to create a mixed effects model via **Imer** function.
- Use **rand**, **anova**, **step** functions to analyse/reduce the model.
- What are the significant random effects? What are the significant fixed effects?
- Is there a significant interaction between *TVset* and *Picture* for this attribute?
- Plot the post-hoc. What differences of least squares means are there for *Picture* and *TVset*?
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2. carrots

- replicate the code from the lecture (**lecture_ImerTest_Rcode.R**)
Example 2. carrots data
- Summarize the data via **str(TVbo)**
- If needed convert to factors some variables
- Choose some other background variable (e.g. Age). If needed convert it to a factor
- Construct a mixed effects model via **Imer** function, which also contains the selected background variable. How many fixed effects your model contains? How many random effects it contains?
- Analyze/reduce the constructed model .
- What effects are significant? What error structure have you chosen?
- Plot the post-hoc