

# ANOVA for factorial designs

- A particularly good package for factorial ANOVA is by Henrik Singmann and called `afex`.
- Built to work like ANOVA in SPSS - uses Type III Sums of Squares with *effect* coding of contrasts. This overrides the default contrast coding in *R* which is for *dummy* coding.

# Repeated measures example - I

## Factor, 4 levels

- Let's imagine we have an experiment where we asked 32 participants to memorise words of differing levels of spelling complexity - Very Easy, Easy, Hard, and Very Hard.
- They were presented with these words in an initial exposure phrase. After a 30 minute break we tested them by asking them to write down all the words. We scored them as number correct for each condition.
- We want to know whether there is a difference in the number of words they remembered for each level of spelling complexity.