**Treating block as fixed effects using lm()**

A screenshot of a computer

AI-generated content may be incorrect.

A table of numbers with black text

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

**Treating block as a random effect. Mixed model using lmer()**

A screenshot of a computer code

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer program

AI-generated content may be incorrect.

- Although we have different values for probability, the interaction of nrate and krate are significant for both fixed and mixed models. The degrees of freedom are the same, except that the fixed model gives us the ones for the block.

- The model means are the same for fixed and mixed models, however, the standard errors are higher for the mixed model.

- The letter separation looks the same for both models, the overall interpretation thus does not change.