Addressing lack of convergence

```
Warning message:
```

```
In checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv, :
    Model failed to converge with max|grad| = 0.0171702 (tol = 0.001, component 1)
```

If you see this message (which you will - again and again and again), it means you have to simplify your random effects structure so that a model can be identified.

Addressing lack of convergence

Simplify your random effects structure step by step. For an experiment with two factors (Factor I and Factor 2) we could simplify the participant and item random effects like this:

```
(1 + Factor 1*Factor 2| Participant) + (1 + Factor 1*Factor 2| Item)
(1 + Factor 1*Factor 2| Participant) + (1 + Factor 1+Factor 2| Item)
(1 + Factor 1+Factor 2| Participant) + (1 + Factor 1+Factor 2| Item)
(1 + Factor 1+Factor 2| Participant) + (1 + Factor 1| Item)
```

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