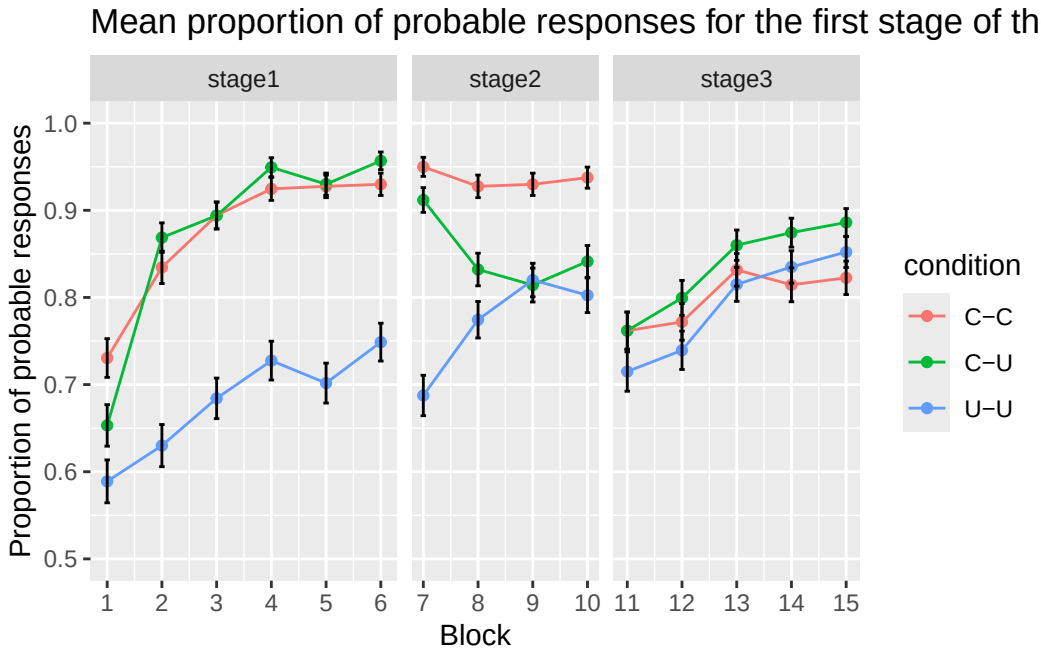
UNL01

All training phase



A mixed model ANOVA, with the between subjects factor *group* and the within subjects factor *block* found both main effects significant (Group: $F(2, 57) = 11.76$, $p < .001$, $\eta_p^2 = .29$, $\text{BF}_{10} = 3.9\text{x}10^{2} \pm 0.55\%$; Block:$F(6.27, 357.36) = 16.98$, $p < .001$, $\eta_p^2 = .23$, $\text{BF}_{10} = 4.7\text{x}10^{28} \pm 0.29\%$) and the interaction between them ($F(12.54, 357.36) = 5.65$, $p < .001$, $\eta_p^2 = .17$, $\text{BF}_{10} = 1.1\text{x}10^{15} \pm 1.46\%$), all of them with extreme evidence for the alternative hypothesis. Simple main effects showed an effect of the group in the blocks 2-7 ($F(2 , 57) > 10.064$, $p < 0.002715$). In all the cases, the differences were between group U-U with the C-C and the C-U groups.

Stage 1

In stage 1, all groups showed a similar increase in accuracy as blocks progressed. A mixed methods ANOVA confirmed a significant effect of the *block* ($F(3.84, 218.95) = 37.06$, $p < .001$, $\eta_p^2 = .39$, $BF_{10} = 2.4x10^{25} \pm 0.49\%$), the *condition* ($F(2, 57) = 21.98$, $p < .001$, $\eta_p^2 = .44$, $BF_{10} = 1.6x10^{5} \pm 0.56\%$), and of their interaction ($F(7.68, 218.95) = 2.06$, $p = .044$, $\eta_p^2 = .07$, $BF_{10} = 9x10^{-1} \pm 1.38\%$). simple main effect of condition showed that it was significant in all blocks except for the first one. Again, the differences were between group U-U with the other two groups.

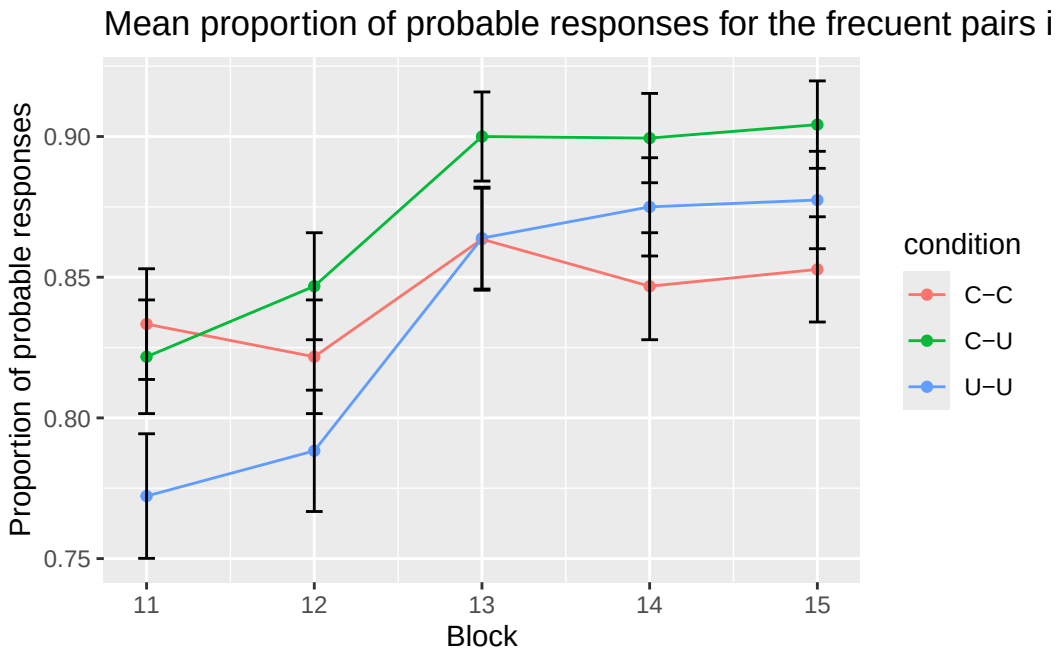
Stage 2

In stage 2, the C-C group continued with a high accuracy, and group U-U, kept increasing in accuracy. However, group C-U showed a decrease in the accuracy, to levels similar to the U-U group. A mixed model ANOVA did not find a significant effect of the *block* ($F(3, 171) = 0.42$, $p = .741$, $\eta_p^2 < .01$, $BF_{10} = 3.1x10^{-2} \pm 1.68\%$), but both the main effect of the *group* and the*groupXblock* interaction were significant(Group: $F(2, 57) = 8.75$, $p < .001$, $\eta_p^2 = .24$, $BF_{10} = 6.4x10^{1} \pm 2.4\%$; Interaction: $F(6, 171) = 8.07$, $p < .001$, $\eta_p^2 = .22$, $BF_{10} = 1.5x10^{5} \pm 3.42\%$). Simple main effects showed an effect of the condition in all blocks ($F\ (2, 22) > 7.301$, $p < .001$). Simple main effects of condition showed that there were significant differences in block 7, but not in any more of them. Simple comparisons showed that, in block 7, group U-U was significantly different from group C-C ($t(57) = 6.9678012$, $p = 0$) and group C-U ($t(57) = 5.9645248$, $p = 0.0000005$).

Stage 3

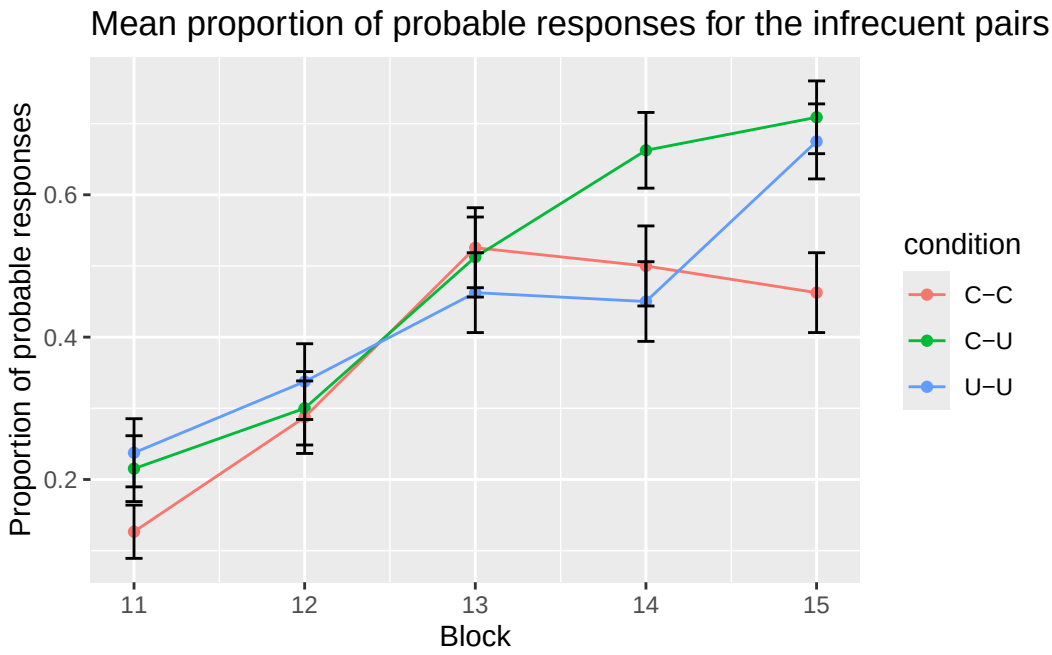
On the third stage, the ANOVA showed only a significant effect of the *block* ($F(4, 228) = 19.60$, $p < .001$, $\eta_p^2 = .26$, $BF_{10} = 1.3x10^{11} \pm 0.4\%$), but not of the *condition* ($F(2, 57) = 0.92$, $p = .403$, $\eta_p^2 = .03$, $BF_{10} = 3.1x10^{-1} \pm 0.42\%$), but not of their interaction ($F(8, 228) = 0.88$, $p = .530$, $\eta_p^2 = .03$, $BF_{10} = 4.6x10^{-2} \pm 1.47\%$).

Stage 3 frecuent trials



On the frequent trials (AY-O2, BX - O1) in phase three, the ANOVA showed only a significant effect of the *block* ($F(4, 228) = 10.59$, $p < .001$, $\eta_p^2 = .16$, $\text{BF}_{10} = 1.7\text{x}10^{5} \pm 1.1\%$), but not of the *condition* ($F(2, 57) = 0.68$, $p = .511$, $\eta_p^2 = .02$, $\text{BF}_{10} = 2.9\text{x}10^{-1} \pm 0.85\%$), but not of their interaction ($F(8, 228) = 1.20$, $p = .300$, $\eta_p^2 = .04$, $\text{BF}_{10} = 9.4\text{x}10^{-2} \pm 2.36\%$).

Stage 3 rare trials



On the infrequent trials (AY-O2, BX - O1) in phase three, the ANOVA showed only a significant effect of the *block* ($F(3.17, 180.56) = 33.72$, $p < .001$, $\eta_p^2 = .37$, $\text{BF}_{10} = 3.4\text{x}10^{18} \pm 0.71\%$), but not of the *condition* ($F(2, 57) = 0.68$, $p = .510$, $\eta_p^2 = .02$, $\text{BF}_{10} = 2\text{x}10^{-1} \pm 0.44\%$). The interaction was significant ($F(6.34, 180.56) = 2.13$, $p = .049$, $\eta_p^2 = .07$, $\text{BF}_{10} = 9\text{x}10^{-1} \pm 1.28\%$). However, simple main effects showed no effect of the condition in any of the blocks.