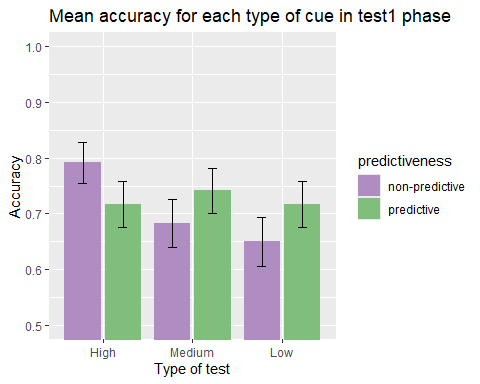
Untitled

# Exp 1

## Test1

### Accuracy

Coordinate system already present. Adding new coordinate system, which will  
replace the existing one.



bay\_ANOVA\_acc\_test1 <- anovaBF(formula = acc ~ group\*predictiveness + pNum,  
 data = data.frame(acc\_test1),  
 whichRandom = "pNum")  
print(bay\_ANOVA\_acc\_test1)

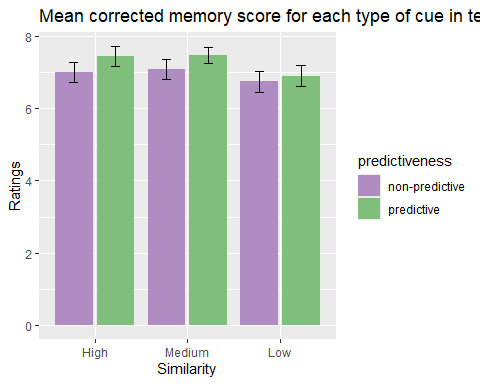
Bayes factor analysis  
--------------  
[1] group + pNum : 0.1740791 ±1.33%  
[2] predictiveness + pNum : 0.1781895 ±2%  
[3] group + predictiveness + pNum : 0.02997114 ±1.13%  
[4] group + predictiveness + group:predictiveness + pNum : 0.01325458 ±3.21%  
  
Against denominator:  
 acc ~ pNum   
---  
Bayes factor type: BFlinearModel, JZS

bay\_ANOVA\_acc\_test1\_int <- bay\_ANOVA\_acc\_test1[4]/bay\_ANOVA\_acc\_test1[3]  
print(bay\_ANOVA\_acc\_test1\_int)

Bayes factor analysis  
--------------  
[1] group + predictiveness + group:predictiveness + pNum : 0.4422447 ±3.4%  
  
Against denominator:  
 acc ~ group + predictiveness + pNum   
---  
Bayes factor type: BFlinearModel, JZS

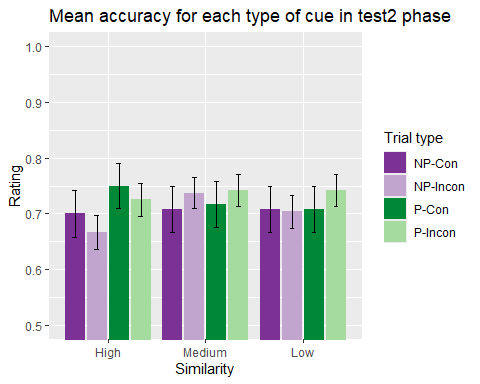
Except for those that did the very subtle test, all subjects had lower accuracy for the non predictive vs the predictive targets. However, there are no significant effects: *similarity* : *F*(2, 87) = 0.87, *p* = .425, = .02, BF10 = 0.17 ± 1.33%; *predictiveness*: *F*(1, 87) = 0.23, *p* = .635, < .01, BF10 = 0.18 ± 2%; *similarity x predictiveness*: *F*(2, 87) = 1.72, *p* = .185, = .04, BF10 = 0.17 ± 1.33%.

###Just correct ratings



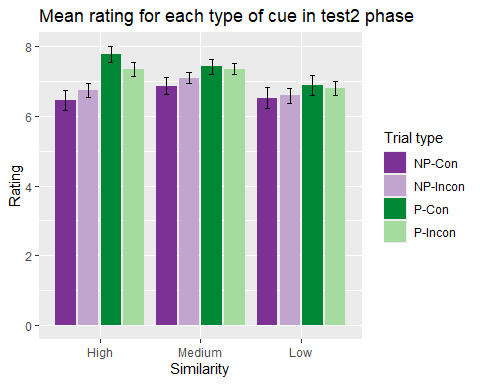
In this first test, there was a significant effect of the predictiveness, *F*(1, 82) = 4.70, *p* = .033, = .05, BF10 = 1.19 ± 2.84%, but not of the *similarity*, *F*(2, 82) = 0.86, *p* = .428, = .02, BF10 = 0.25 ± 0.48%, nor of the *similarity x predictiveness* interaction, *F*(2, 82) = 0.43, *p* = .653, = .01, BF10 = 0.25 ± 0.48%.

##Test2 ### Accuracy



There are no significant differences due to any effect or interaction in accuracy in the second test, Except for those that did the very subtle test, all subjects had lower accuracy for the non predictive vs the predictive targets. However, there are no significant effects: *similarity* : *F*(2, 87) = 0.05, *p* = .949, < .01, BF10 = 0.09 ± 0.44%; *predictiveness*: *F*(1, 87) = 1.02, *p* = .314, = .01, BF10 = 0.25 ± 4.72%; *congruence*: *F*(1, 87) = 0.07, *p* = .787, < .01, BF10 = 0.12 ± 1.28%; *similarity x predictiveness*: *F*(2, 87) = 0.30, *p* = .739, < .01, BF10 = 0.09 ± 6.09%; *predictiveness x congruence*: *F*(1, 87) = 0.09, *p* = .760, < .01, BF10 = 0.16 ± 11.91%; *similarity x congruence*: *F*(2, 87) = 1.23, *p* = .298, = .03, BF10 = 0.05 ± 47.86%; *similarity x predictiveness x congruence*: *F*(2, 87) = 0.07, *p* = .929, < .01, BF10 = 0.12 ± 22.04%.

###Just correct ratings



When the confidence ratings for the correct options were analysed, there was a clear effect of predictiveness, *predictiveness*: *F*(1, 82) = 18.76, *p* < .001, = .19, BF10 = 53857.92 ± 1.32%. The rest of the main effects and interactions were not significant: *similarity* : *F*(2, 82) = 0.50, *p* = .606, = .01, BF10 = 0.29 ± 3.35%; ; *congruence*: *F*(1, 82) = 0.22, *p* = .643, < .01, BF10 = 0.12 ± 0.97%; *similarity x predictiveness*: *F*(2, 82) = 1.60, *p* = .208, = .04, BF10 = 0.51 ± 6.56%; *predictiveness x congruence*: *F*(1, 82) = 2.33, *p* = .131, = .03, BF10 = 0.45 ± 5.97%; *similarity x congruence*: *F*(2, 82) = 0.73, *p* = .483, = .02, BF10 = 0.07 ± 7.91%; *similarity x predictiveness x congruence*: *F*(2, 82) = 0.38, *p* = .688, < .01, BF10 = 0.15 ± 14.32%

#### Group Low

No significant effects or interactions were found in group Low similarity: *predictiveness*, *F*(1, 27) = 2.55, *p* = .122, = .09, BF10 = 1.28 ± 1.01%, nor of *congruence*, *F*(1, 27) = 0.67, *p* = .420, = .02, BF10 = 0.2 ± 1.27% and no interaction, , BF10 = 0.25 ± 3.53%.

#### Group Medium

For group Medium, there was also no effect of *predictiveness*: *F*(1, 27) = 3.42, *p* = .075, = .11, BF10 = 1.4 ± 0.96%, *congruence*: *F*(1, 27) = 0.61, *p* = .443, = .02, BF10 = 0.22 ± 1.11%, and no interaction *group x predictiveness*: , BF10 = 0.37 ± 5.96%).

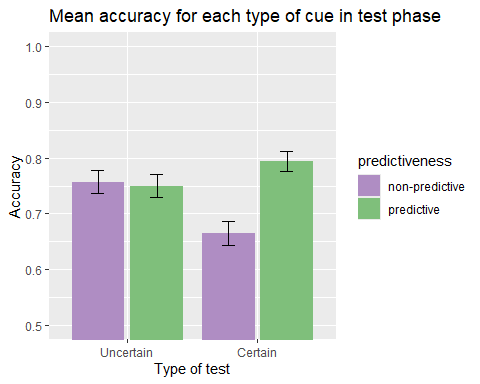
#### Group High

For group High there was a significant effect of *predictiveness*, *F*(1, 28) = 18.32, *p* < .001, = .40, BF10 = 23120.84 ± 1.11%, and an effect of the *predictiveness x congruence*, *F*(1, 28) = 4.47, *p* = .044, = .14, BF10 = 0.93 ± 4.82%, but no main effect of *congruence*, *F*(1, 28) = 0.44, *p* = .513, = .02, BF10 = 0.45 ± 48.4%. The main effect of predictiveness was significant in both the congruent, *F* (1, 28) = 16.961, *p* < .001, $\\eta^2\_p$ = .377, and incongruent trials, *F* (1, 28) = 9.490, *p* = .008, $\\eta^2\_p$ = .247. However, there was an effect of congruence in predictive trials, *F* (1, 28) = 7.457, *p* = .022, $\\eta^2\_p$ = .21, but not on the non-predictive trials, *F* (1, 28) = 0.654, *p* = .852, $\\eta^2\_p$ = .023.

# Exp 2

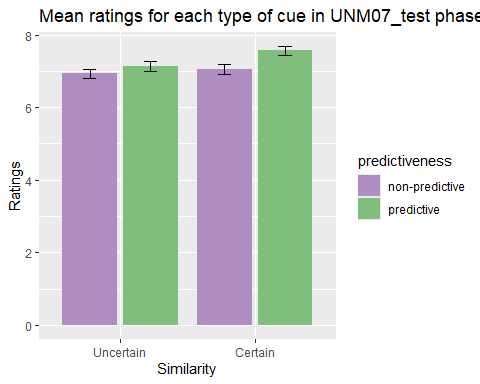
## Accuracy

Coordinate system already present. Adding new coordinate system, which will  
replace the existing one.



There were no differences due to the main effect of *group*, *F*(1, 75) = 0.36, *p* = .551, < .01, BF10 = 0.26 ± 1.16%. However, there was a significant main effect of *predictiveness*, *F*(1, 75) = 4.00, *p* = .049, = .05, BF10 = 1.51 ± 1.03% and of the interaction *group x predictiveness*, *F*(1, 75) = 4.99, *p* = .028, = .06, BF10 = 2.17 ± 5.01%. The simple main effects analysis found a significant effect of predictiveness in the Certain group, *F* (1, 48) = 7.810, *p* = .014, $\\eta^2\_p$ = .14, but not on the Uncertain group, *F* (1, 48) = .459, *p* = 1, $\\eta^2\_p$ = .009.

## Just correct ratings

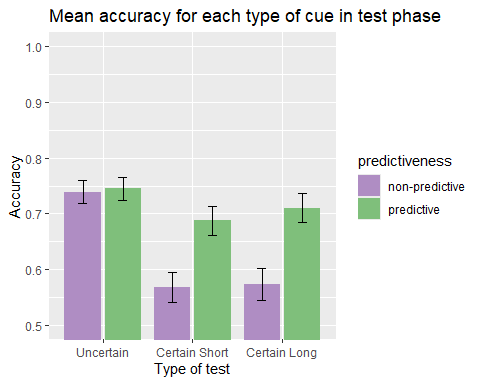


In this first test, there was no significant effect of the *group*, *F*(1, 75) = 0.19, *p* = .666, < .01, BF10 = 0.39 ± 2.2%, the *predictiveness*, *F*(1, 75) = 1.40, *p* = .240, = .02, BF10 = 0.35 ± 1.06%, nor of the *group x predictiveness* interaction, *F*(1, 75) = 0.88, *p* = .350, = .01, BF10 = 0.39 ± 2.2%.

# Exp 3

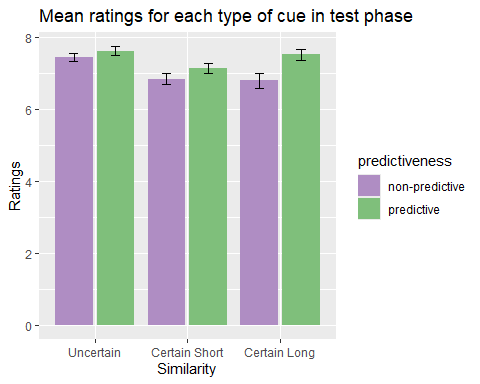
## Accuracy

Coordinate system already present. Adding new coordinate system, which will  
replace the existing one.



There was a significant effect of *predictiveness*, *F*(1, 87) = 10.54, *p* = .002, = .11, BF10 = 6.7 ± 1.51%, and a significant main effect of *group*, *F*(2, 87) = 3.68, *p* = .029, = .08, BF10 = 1.82 ± 0.69%, but not of the *group x predictiveness* interaction, *F*(2, 87) = 2.52, *p* = .086, = .05, BF10 = 1.82 ± 0.69%. Bonferroni corrected post-hoc comparisons on the factor of group showed that group Uncertain differed significantly from the average of the Certain groups, *t*(87) = 2.689, *p* = .009, BF10 = 13.97 ± 0%, but memory scores for the two Certain groups did not differ the one from the other, *t*(87) = 0.267, *p* = 1, BF10 = 0.21 ± 0.03%, with the Bayesian evidence suggesting that memory performance was the same in these two groups.

## Just correct ratings



There was a significant effect *predictiveness*, *F*(1, 87) = 9.18, *p* = .003, = .10, BF10 = 4.63 ± 1.49%, but no significant effect of the *group*, *F*(2, 87) = 0.98, *p* = .379, = .02, BF10 = 0.38 ± 0.61%, nor of the *group x predictiveness* interaction, *F*(2, 87) = 1.78, *p* = .175, = .04, BF10 = 0.38 ± 0.61%.