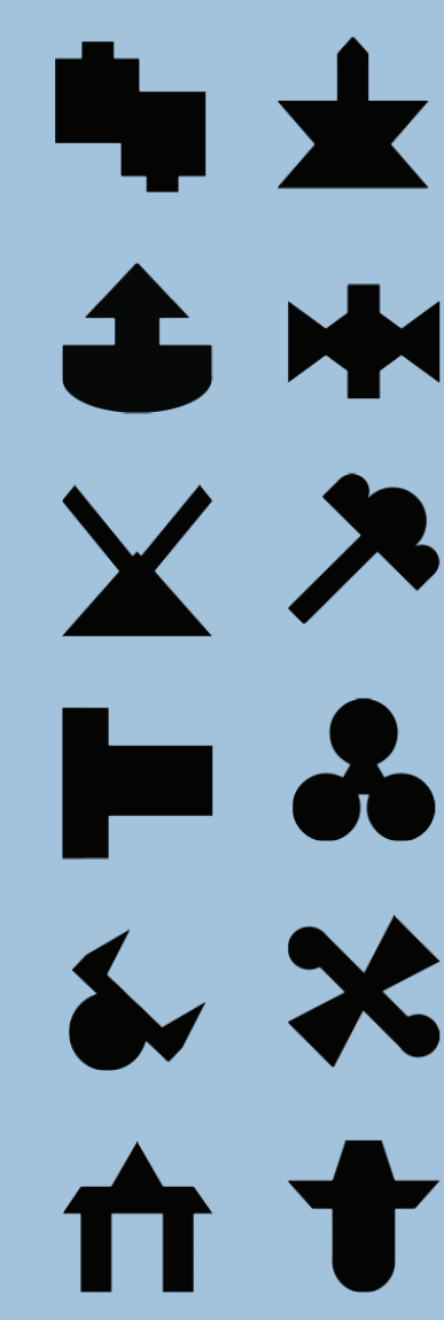


# Do Statistical Properties Affect Object Substitution Masking?

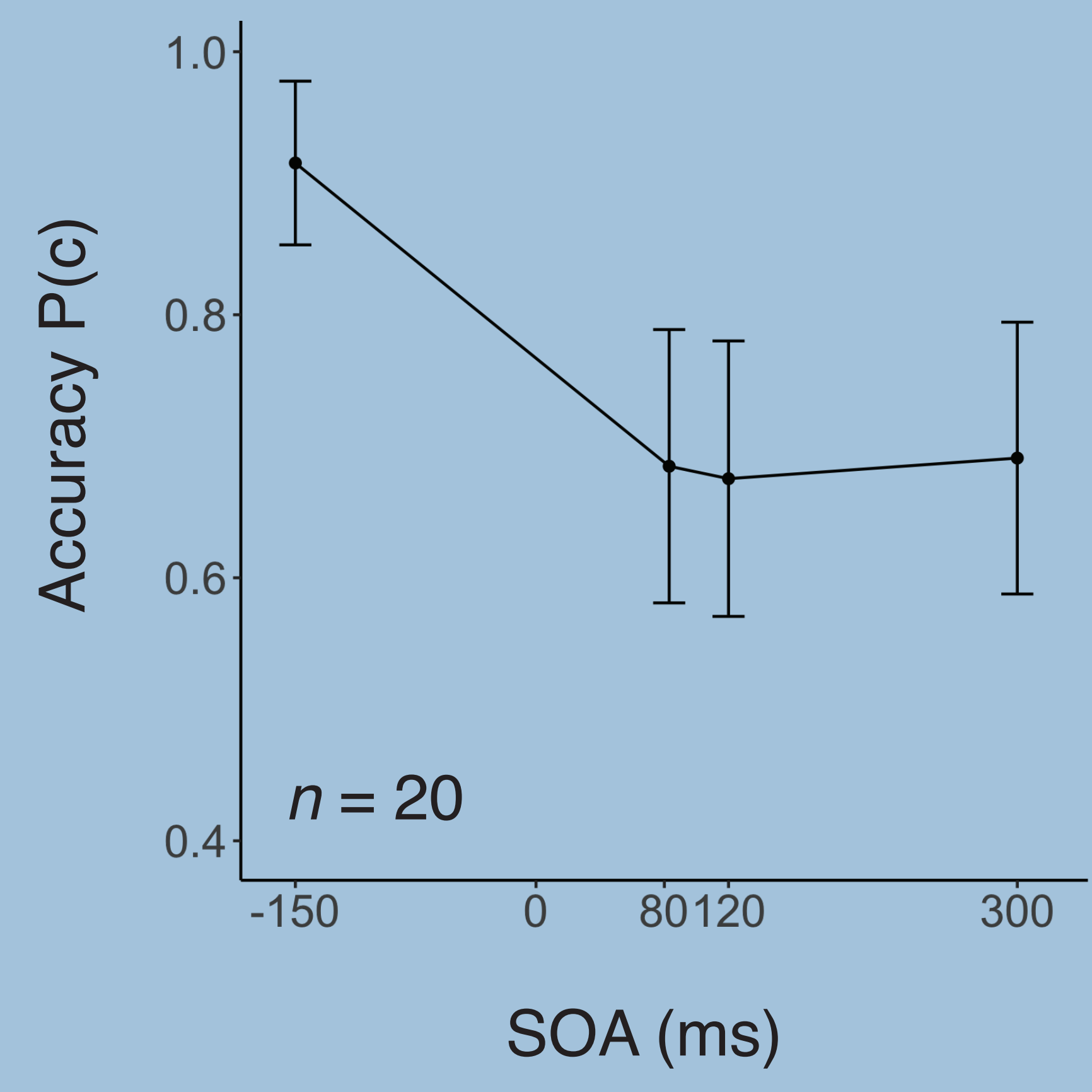
by Abbey Nydam  
& Jay Pratt



## Piloting an Online Masking Study

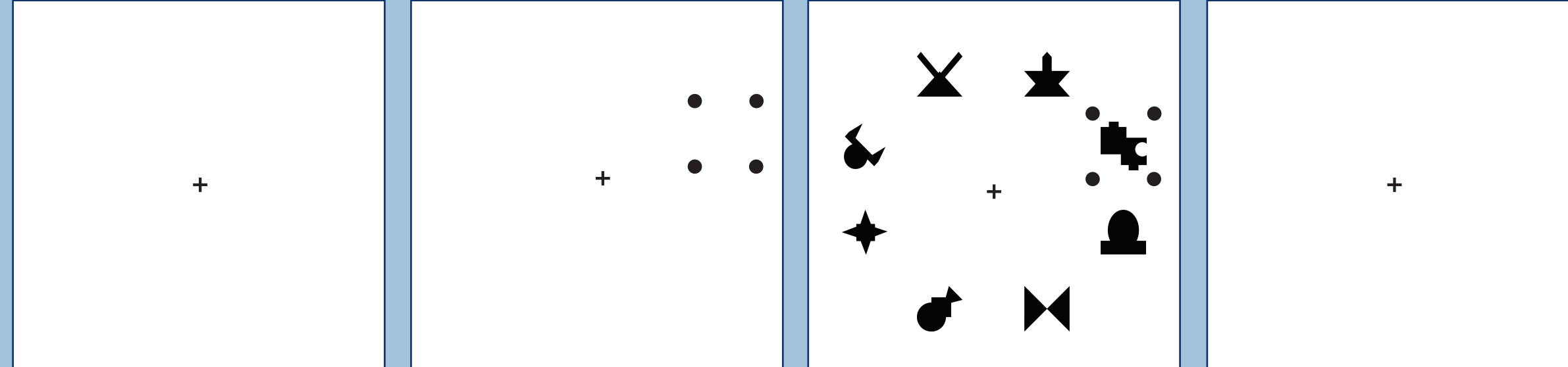


24 shape stimuli

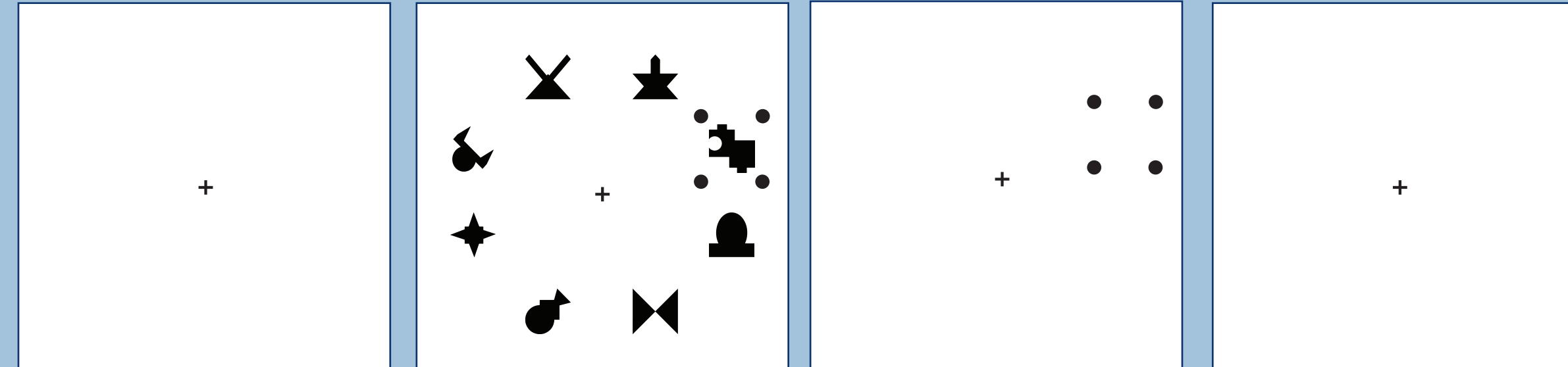


## Delayed Mask Offset

Find the Target Surrounded by Four Dots  
2AFC



-150 ms SOA



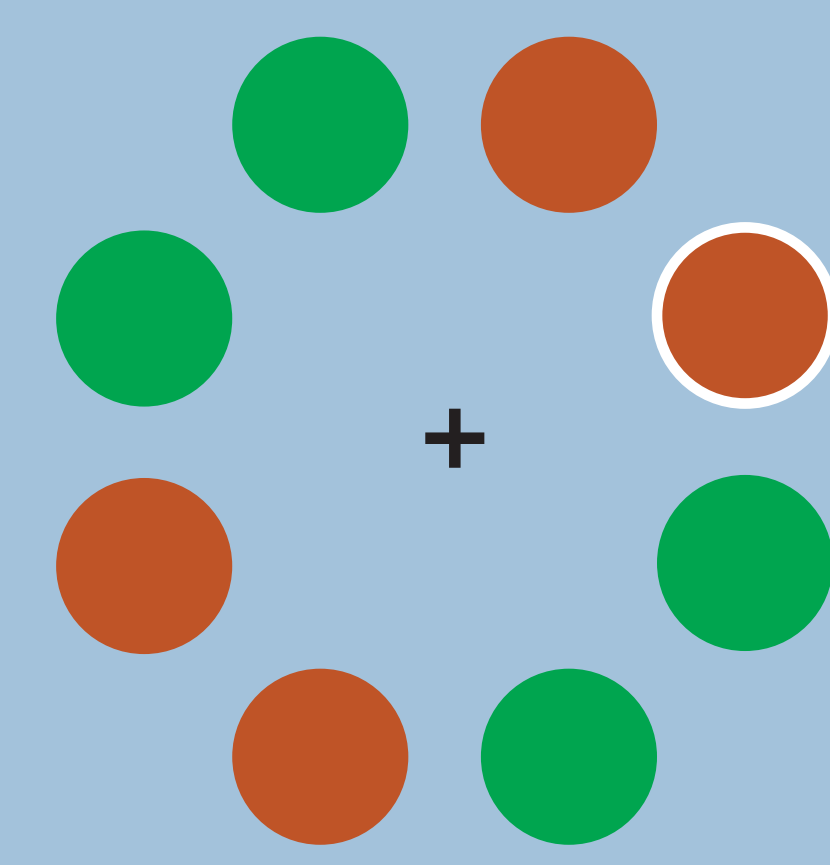
+100 ms SOA

Fix 600ms  
Display 200ms  
Mask 200ms  
Response max 2000ms

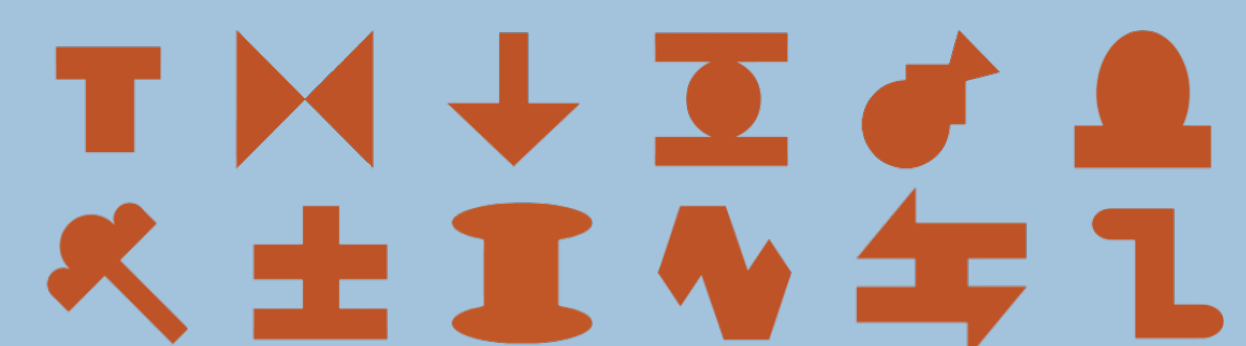
## Object Substitution Masking

With Embedded Regularities

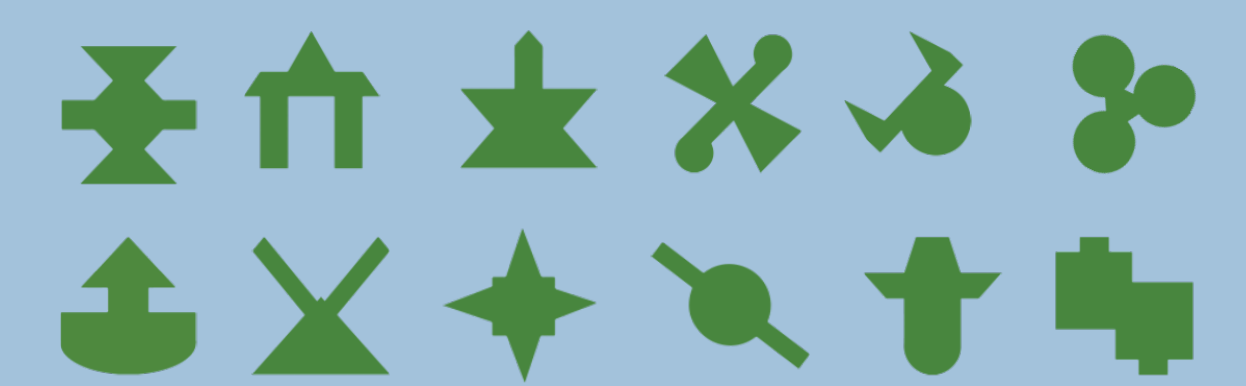
Experiment 1



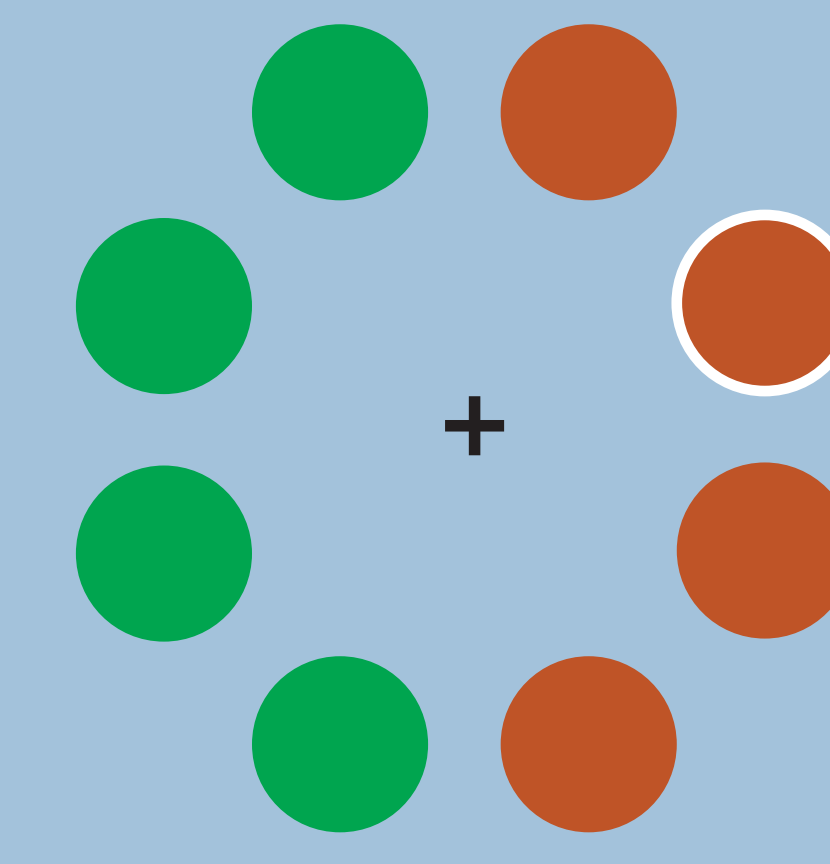
Pairs



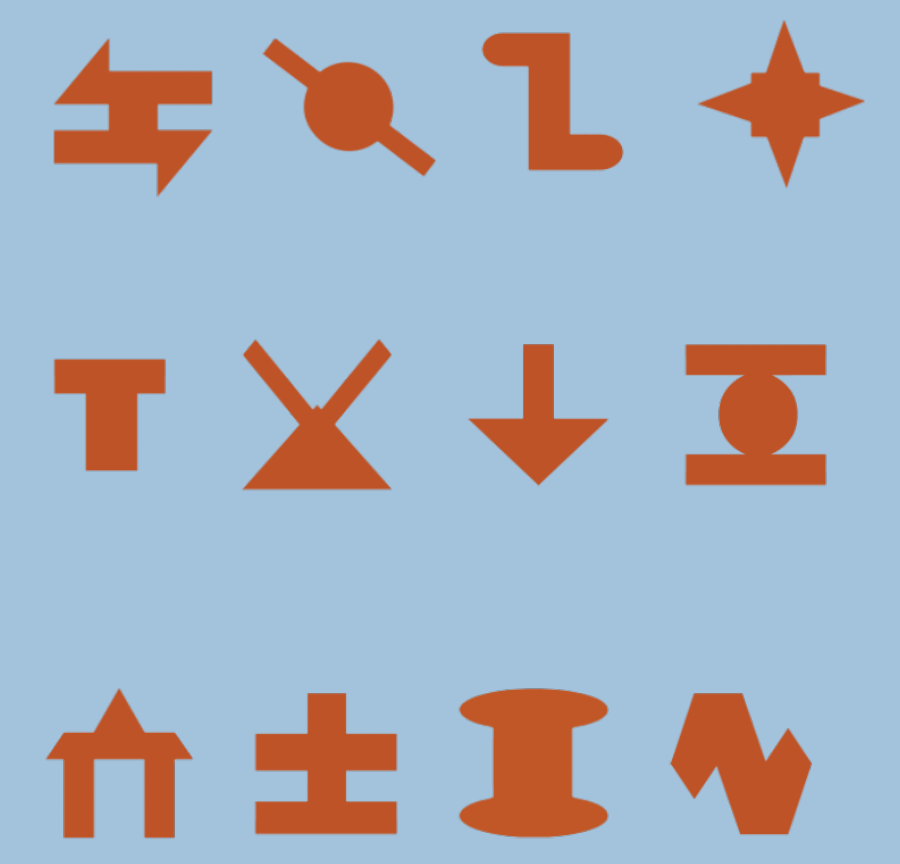
Random Pairs



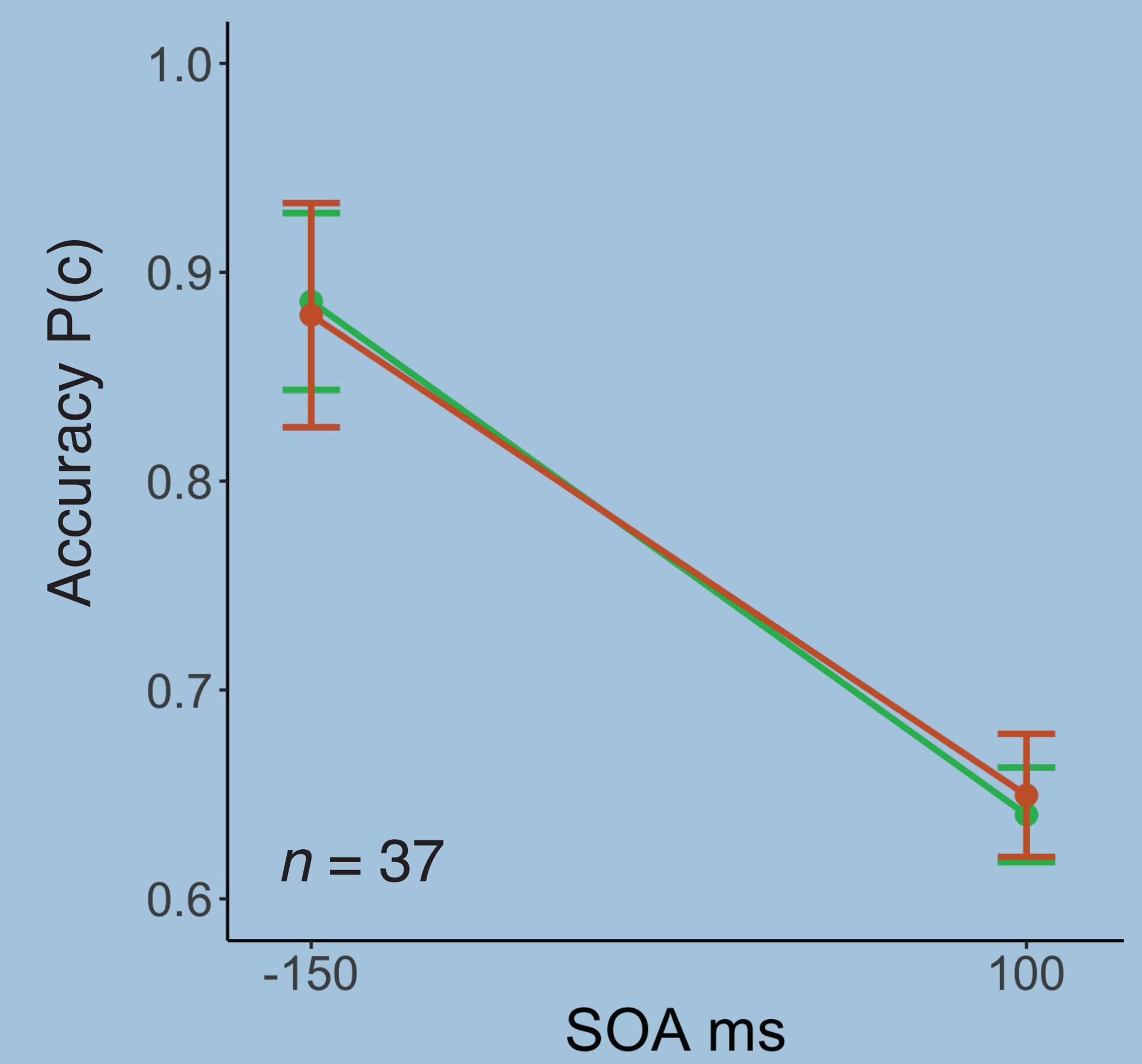
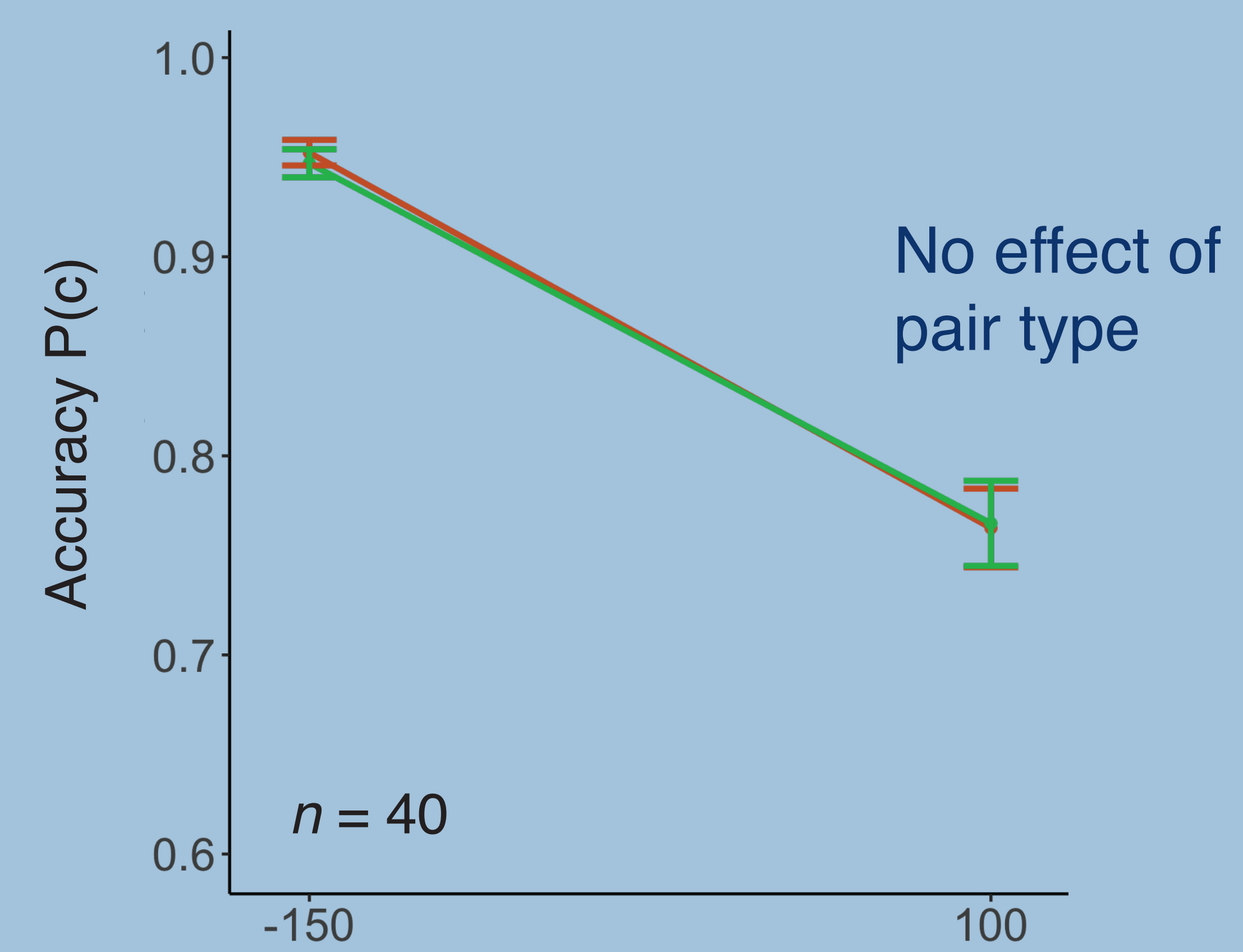
Experiment 2



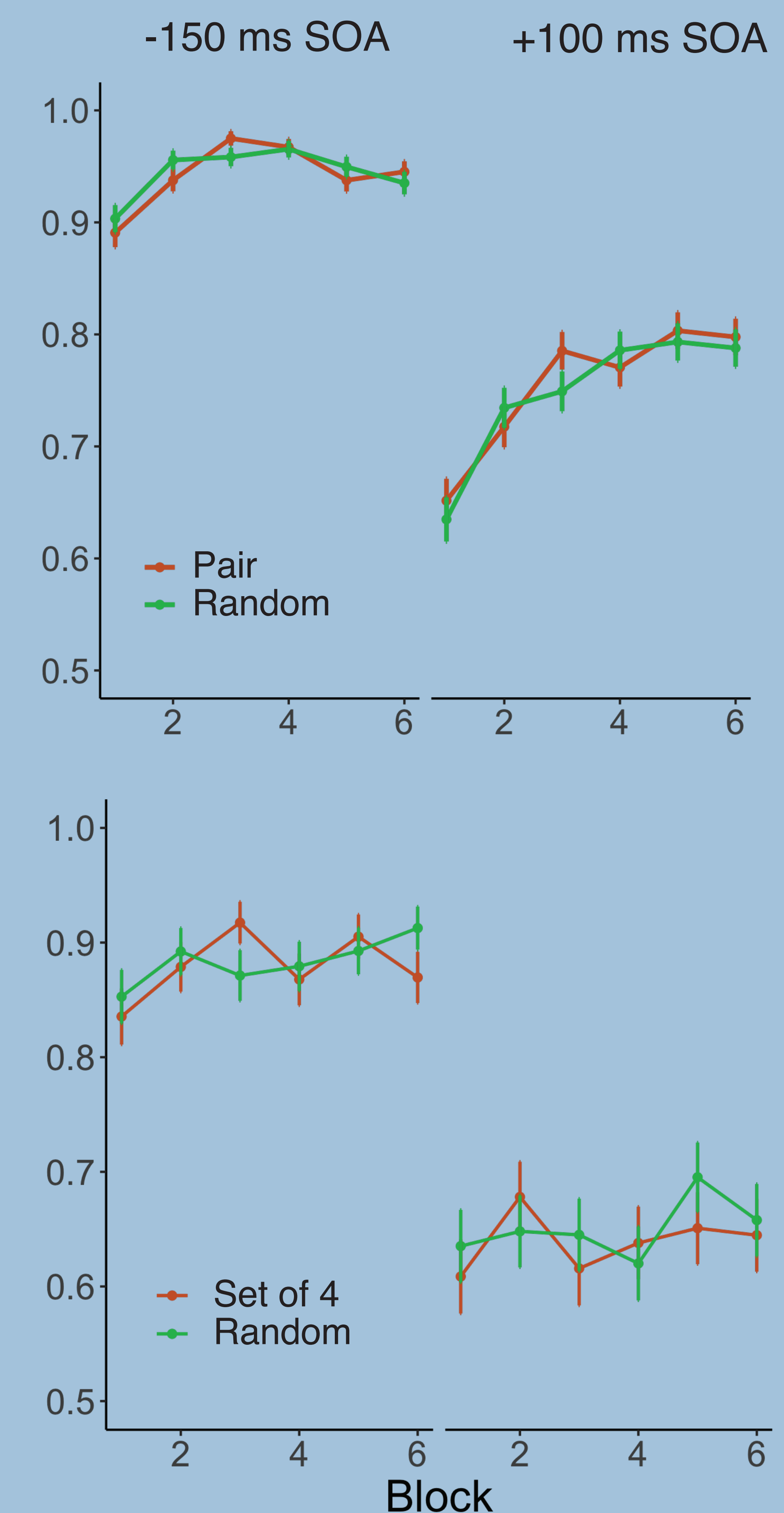
Set of 4



## Masking Effect



## Learning Over Time



**No, in this case.** While there was a general learning effect for the shape stimuli across blocks, accuracy was not affected by the embedded structure. Further investigation is needed to understand how and when statistical properties impact early visual processes.

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