

# Statistical learning creates novel object associations via transitive relations

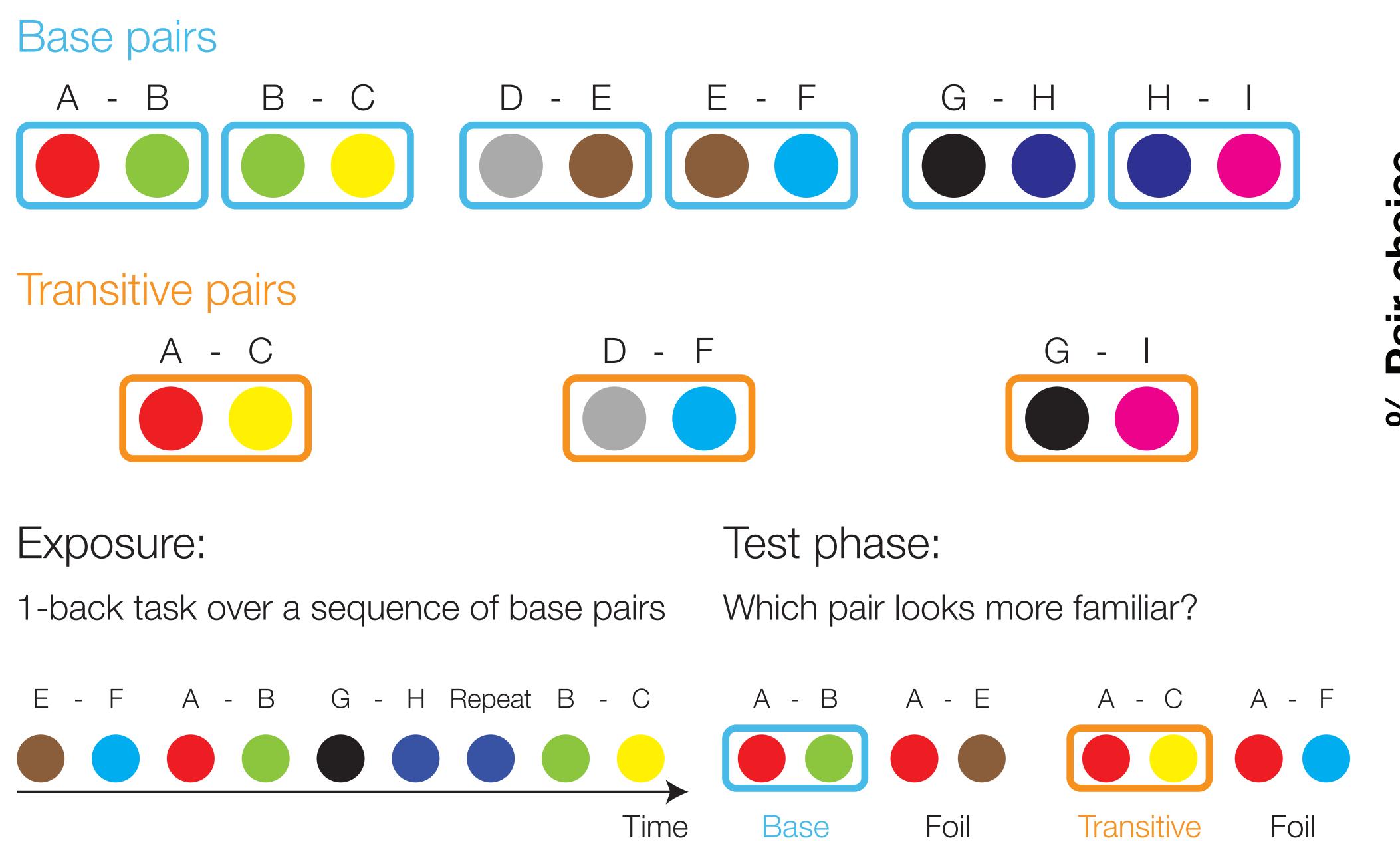


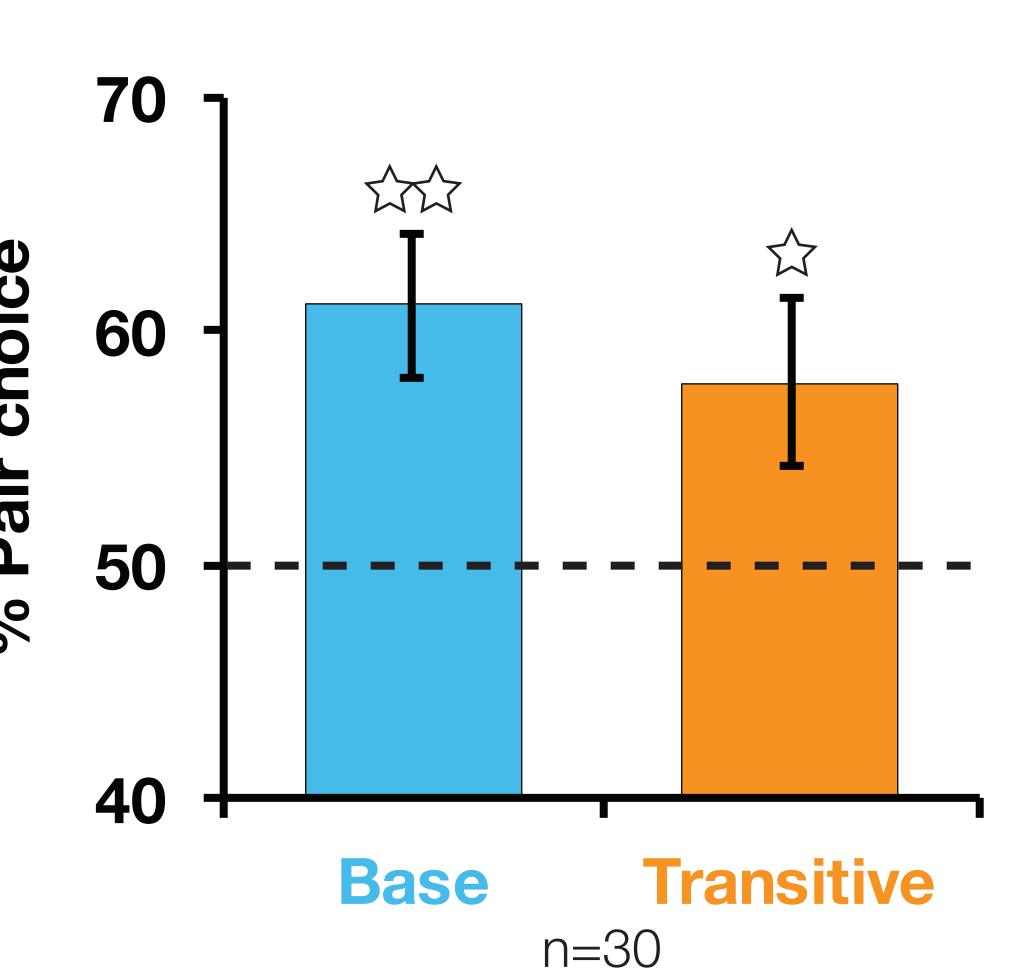


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# What mechanism supports novel associations between objects?

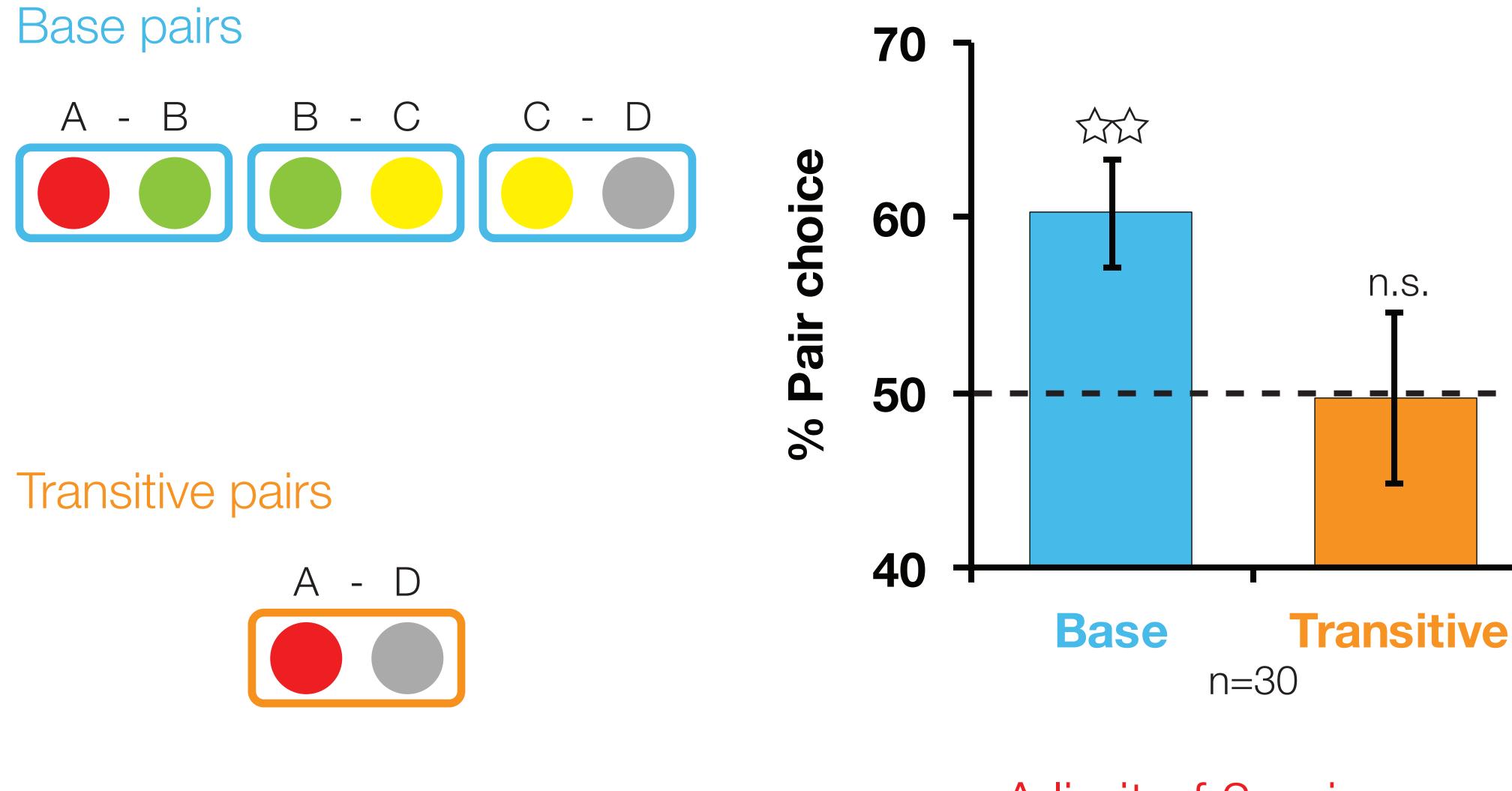
# Experiment 1: Does statistical learning form novel associations?





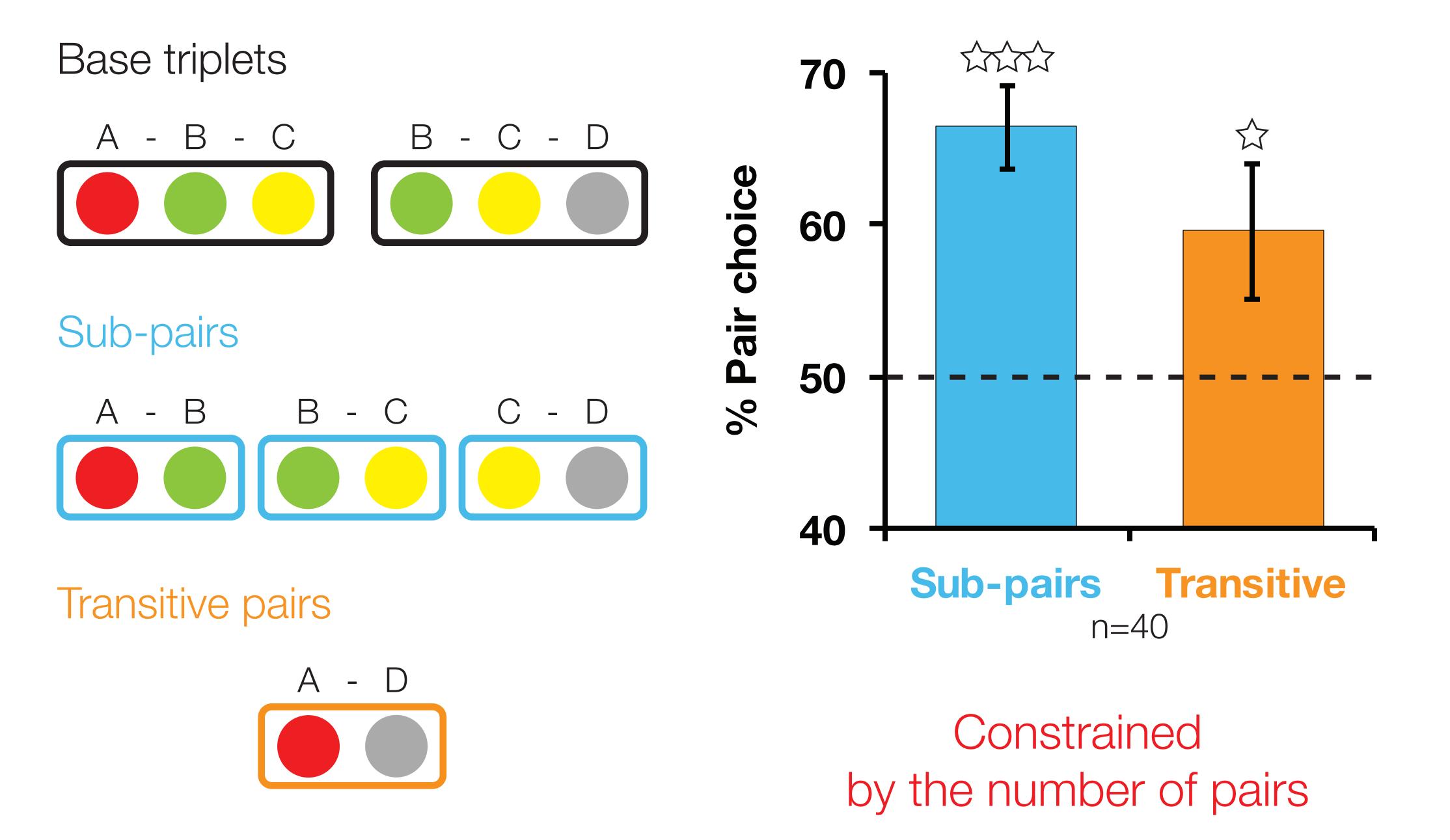
Statistical learning creates automatic novel associations

### Experiment 2: What is the limit of this inference?

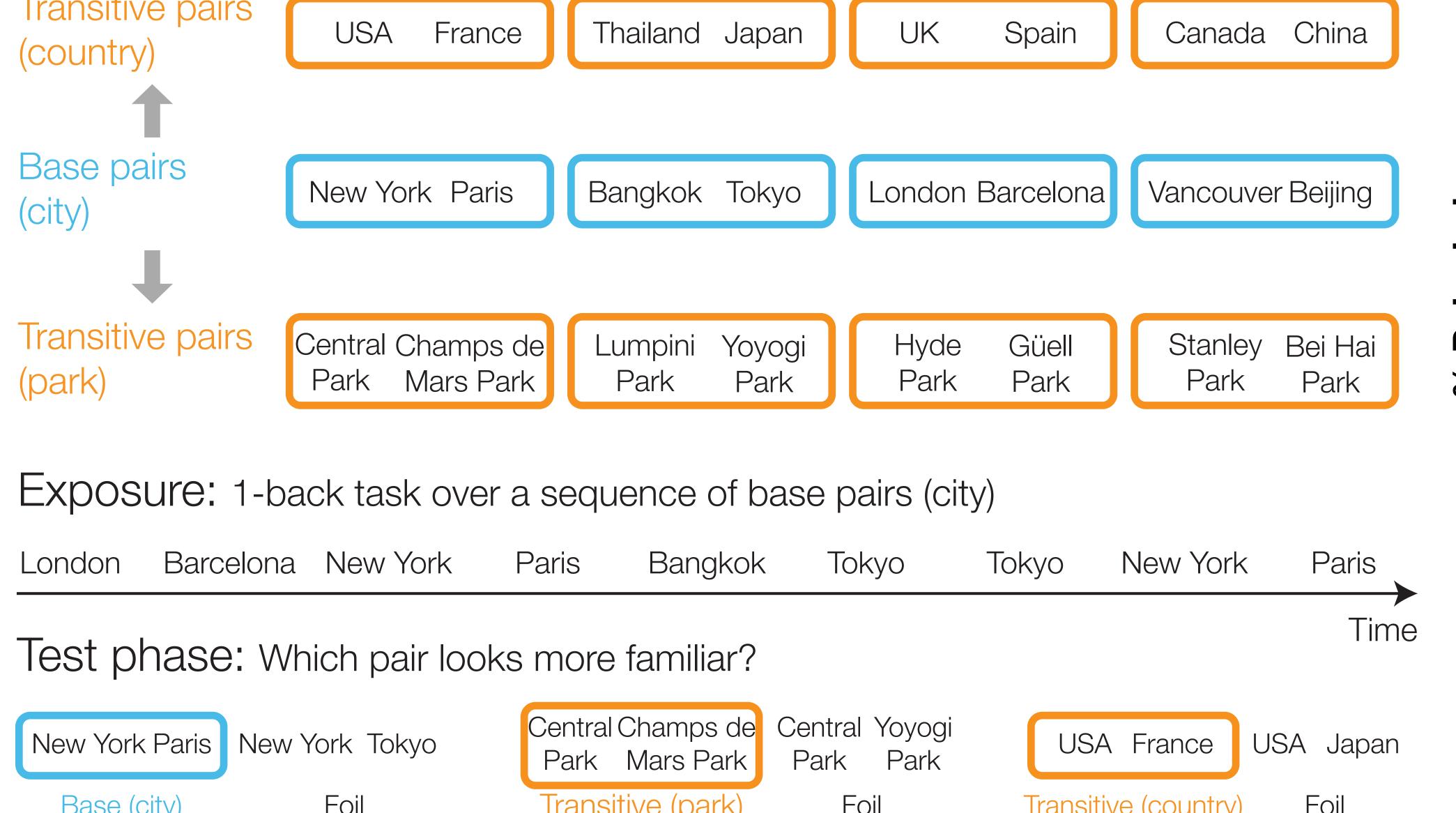


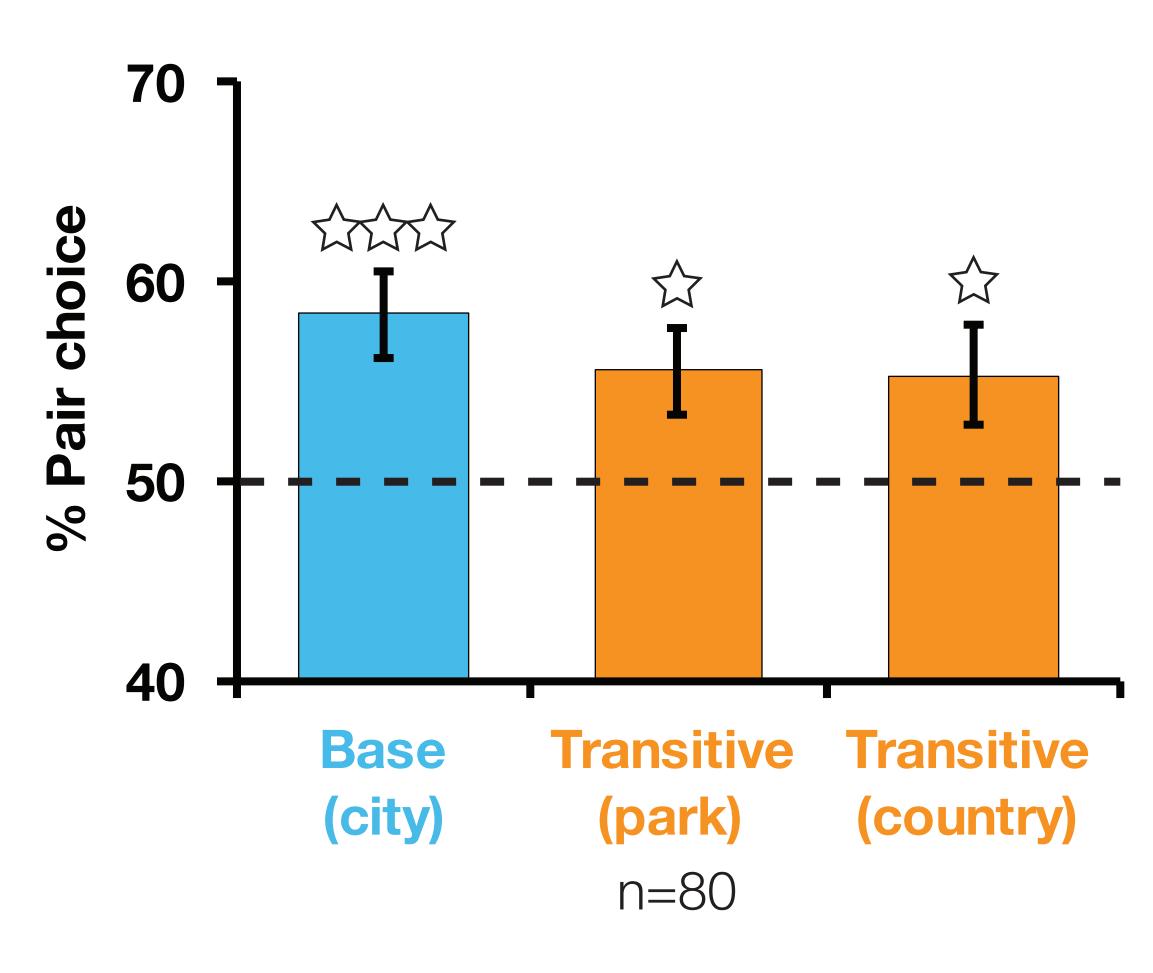
A limit of 2 pairs in transitive inference

#### **Experiment 3: What explains the limit?**



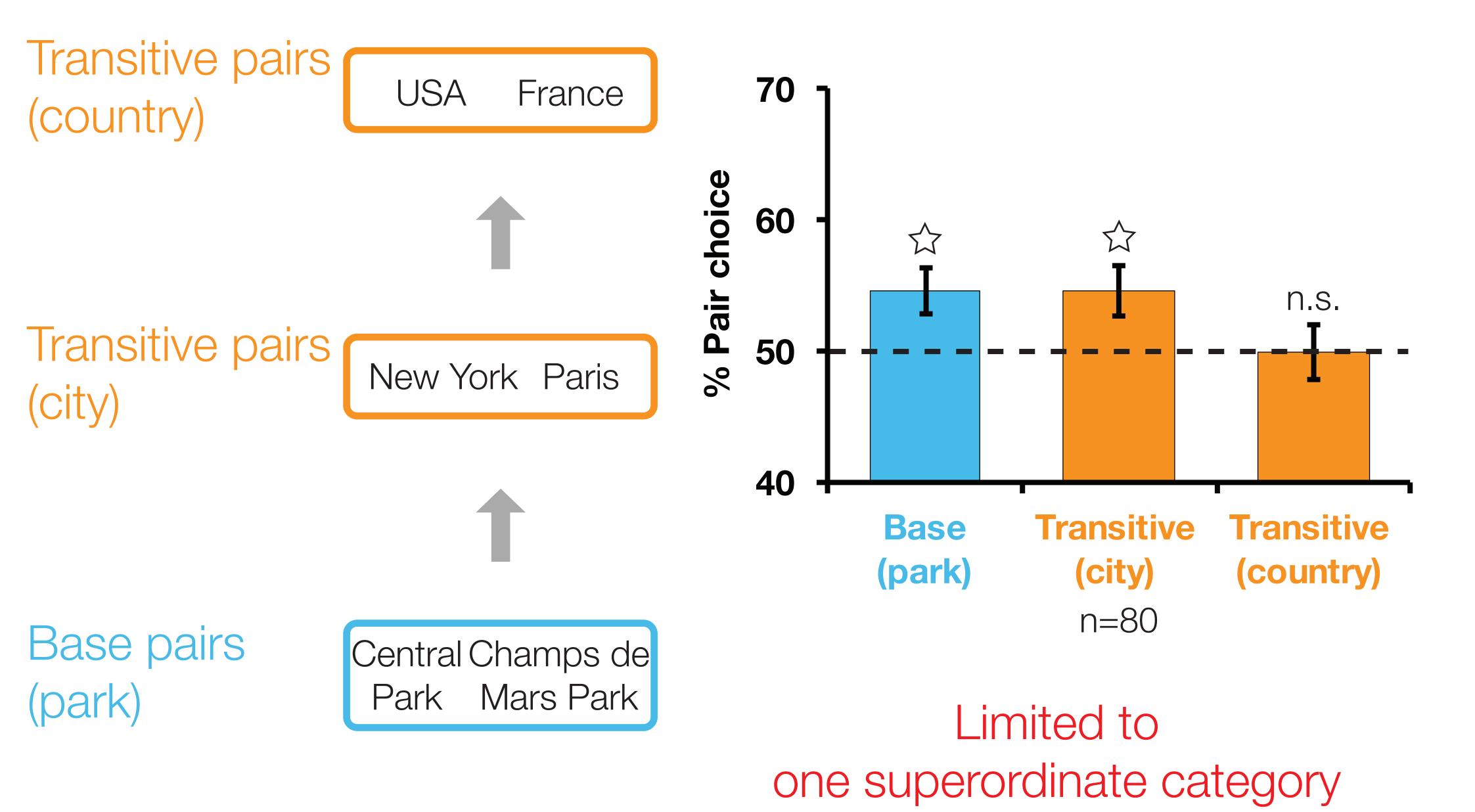
## Experiment 4: Does it generalize to categorical relations?



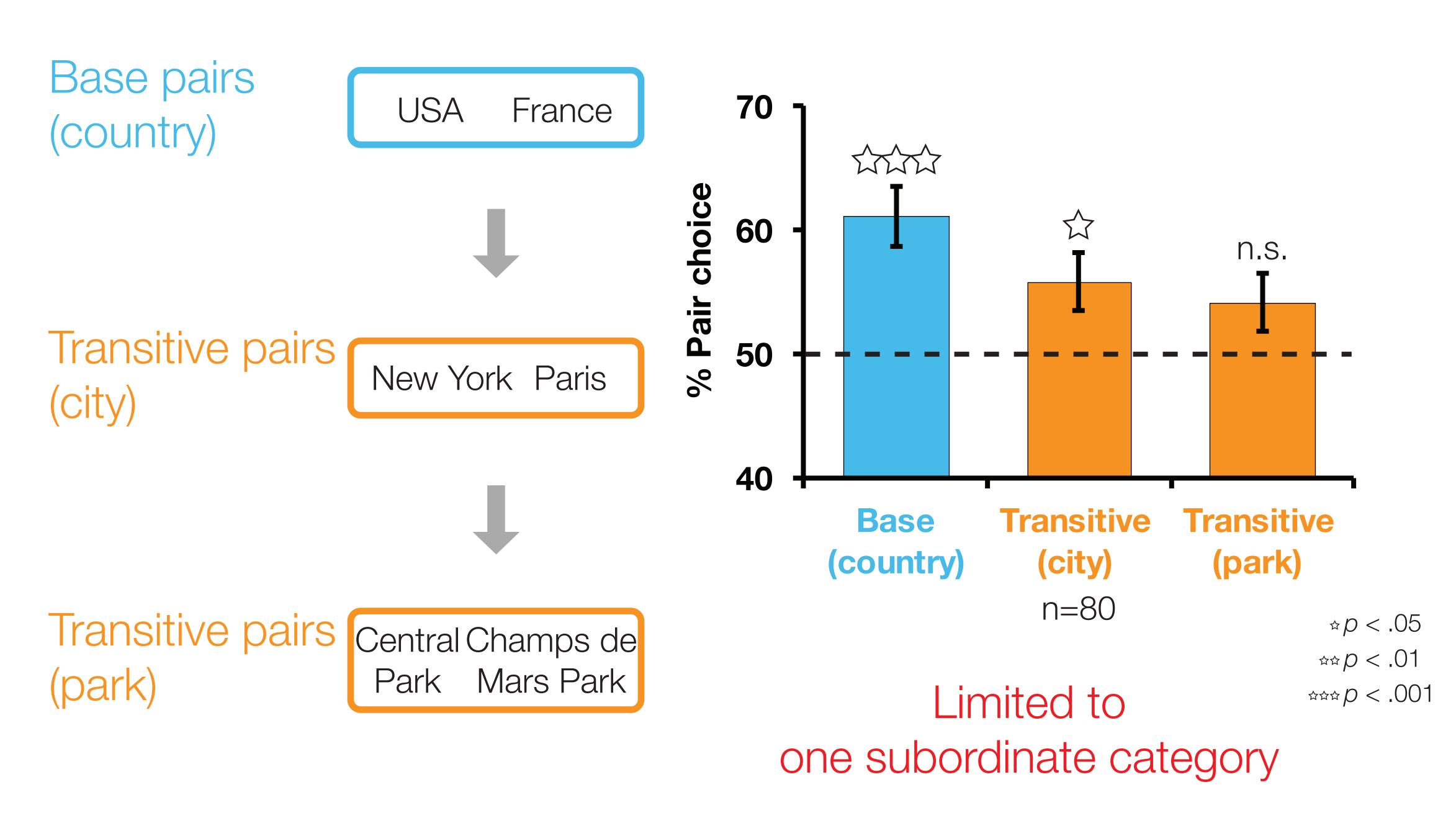


Automatic novel associations across categorical levels

### **Experiment 5: What is the limit of the inference?**



#### Experiment 6: Is the limit specific to superordinate level?



Statistical learning provides a scaffold through which new object associations are transitively created