

# Studying word meanings through the eyes

Pierce Edmiston

# How are word meanings represented in the brain?



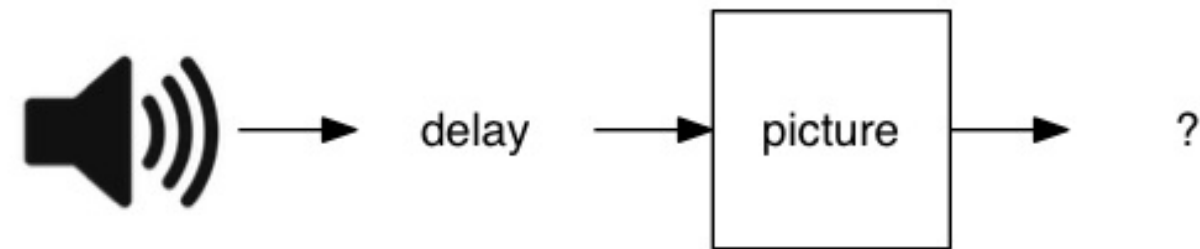
"dog" vs <bark>

What's the difference between verbal and nonverbal cues in activating the same knowledge?

# Cues to the same concept

word	sound
dog	<bark>
cat	<meow>
chainsaw	<revving>
bowling ball	<crashing pins>

# Picture verification task



# Picture verification task

Label advantage in the picture verification



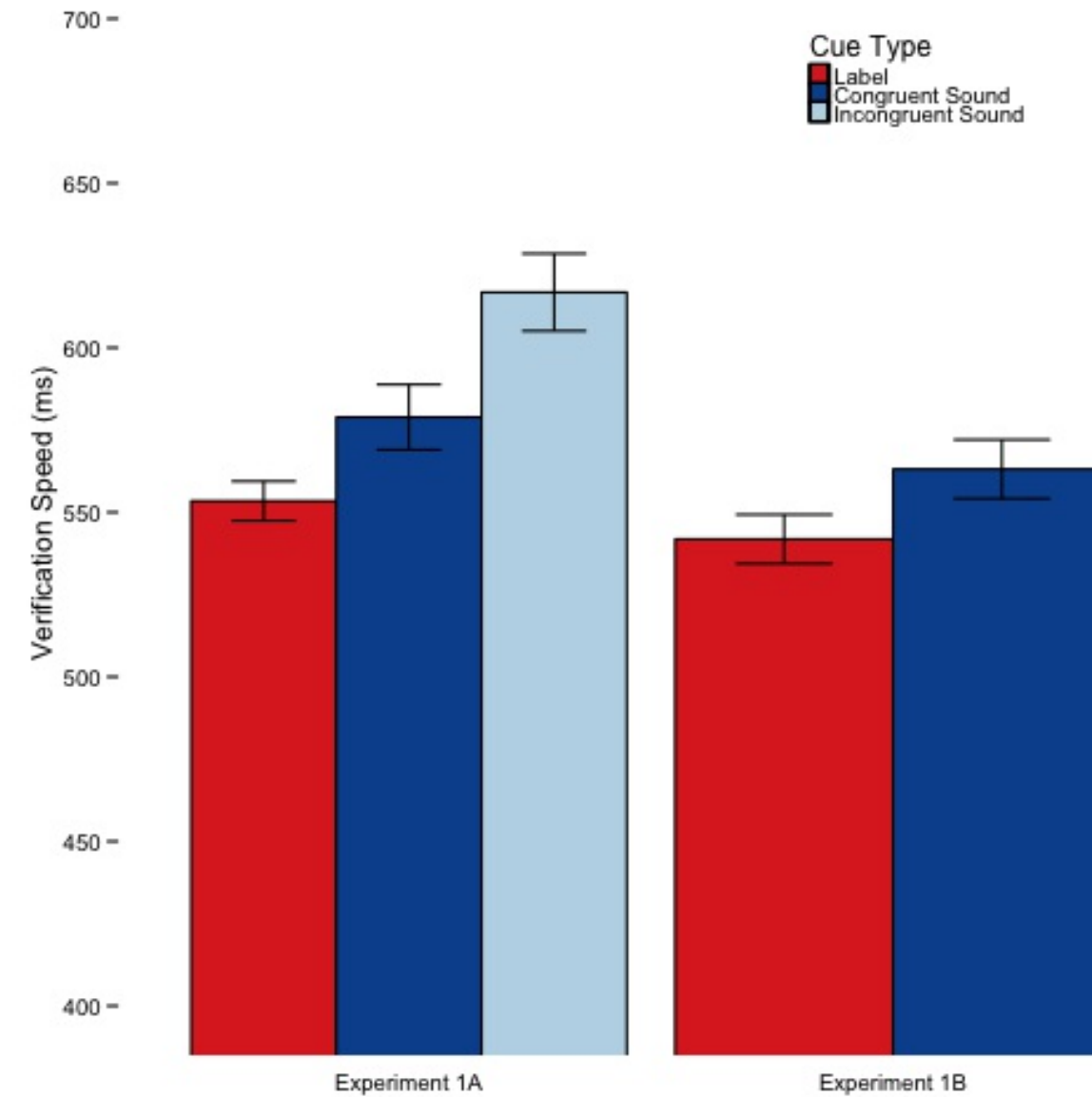
Lupyan & Thompson-Schill 2012 JEP:G

# Picture verification task

Words are unmotivated



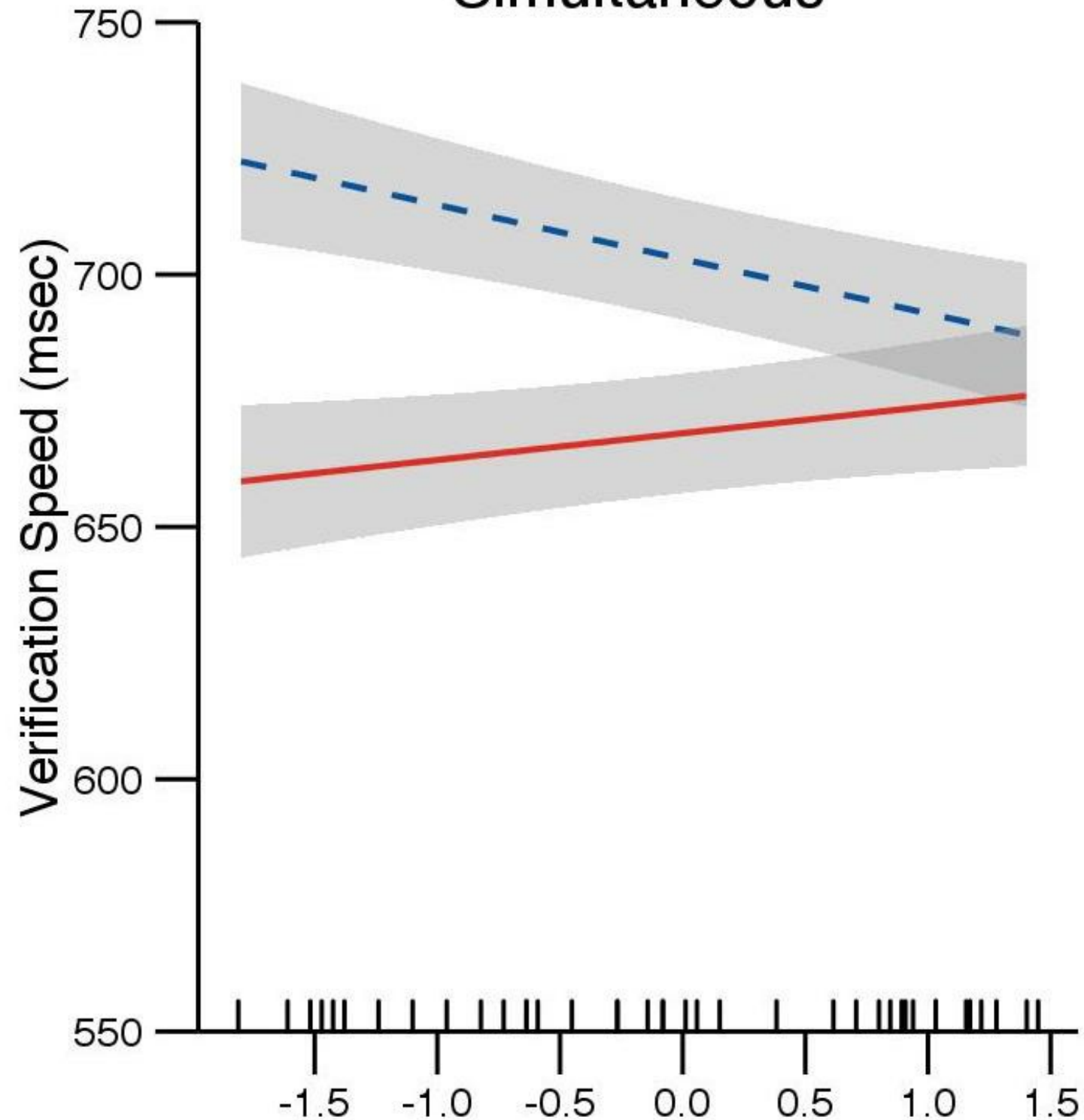
# Picture verification task



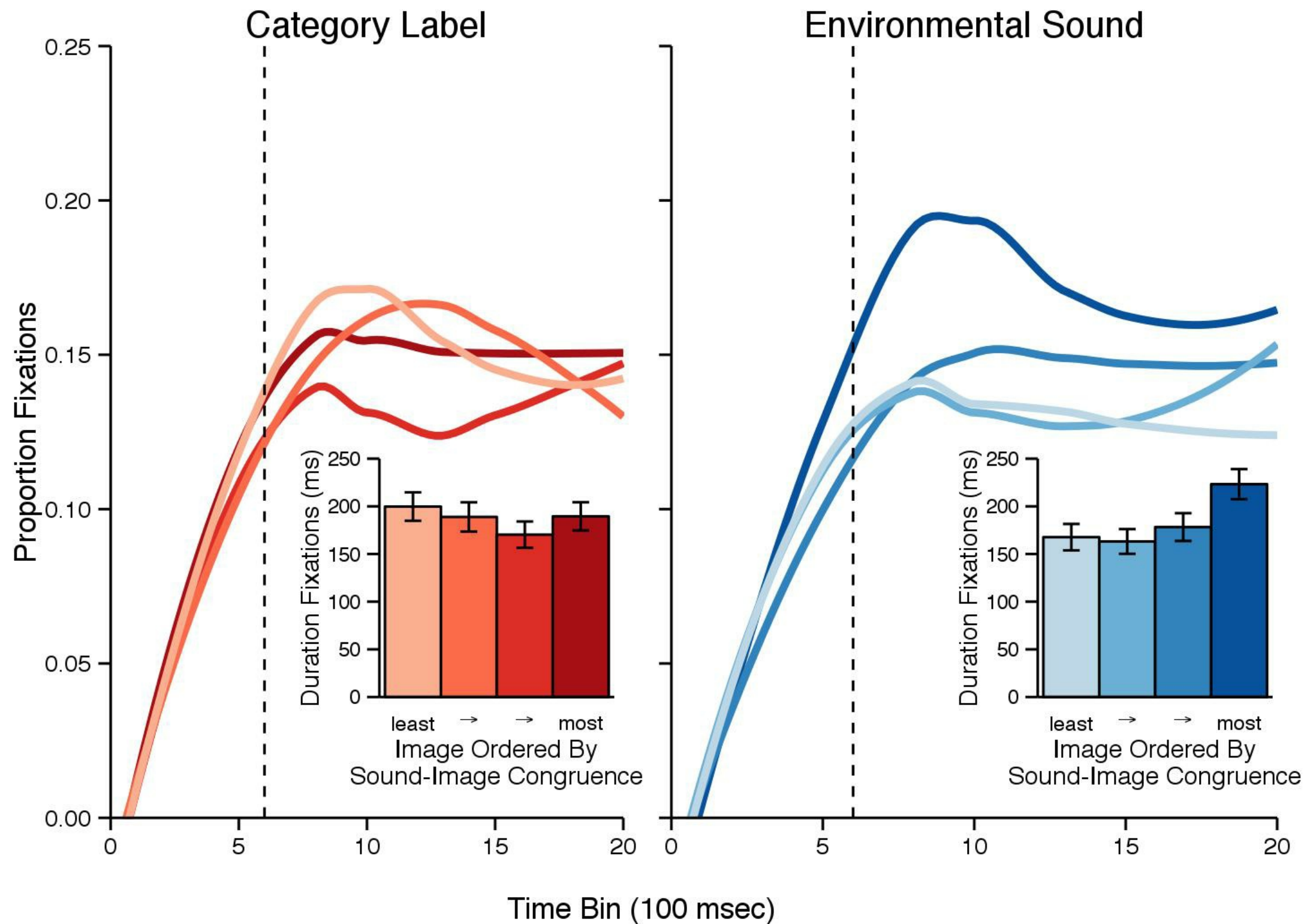


# Picture verification task

Simultaneous

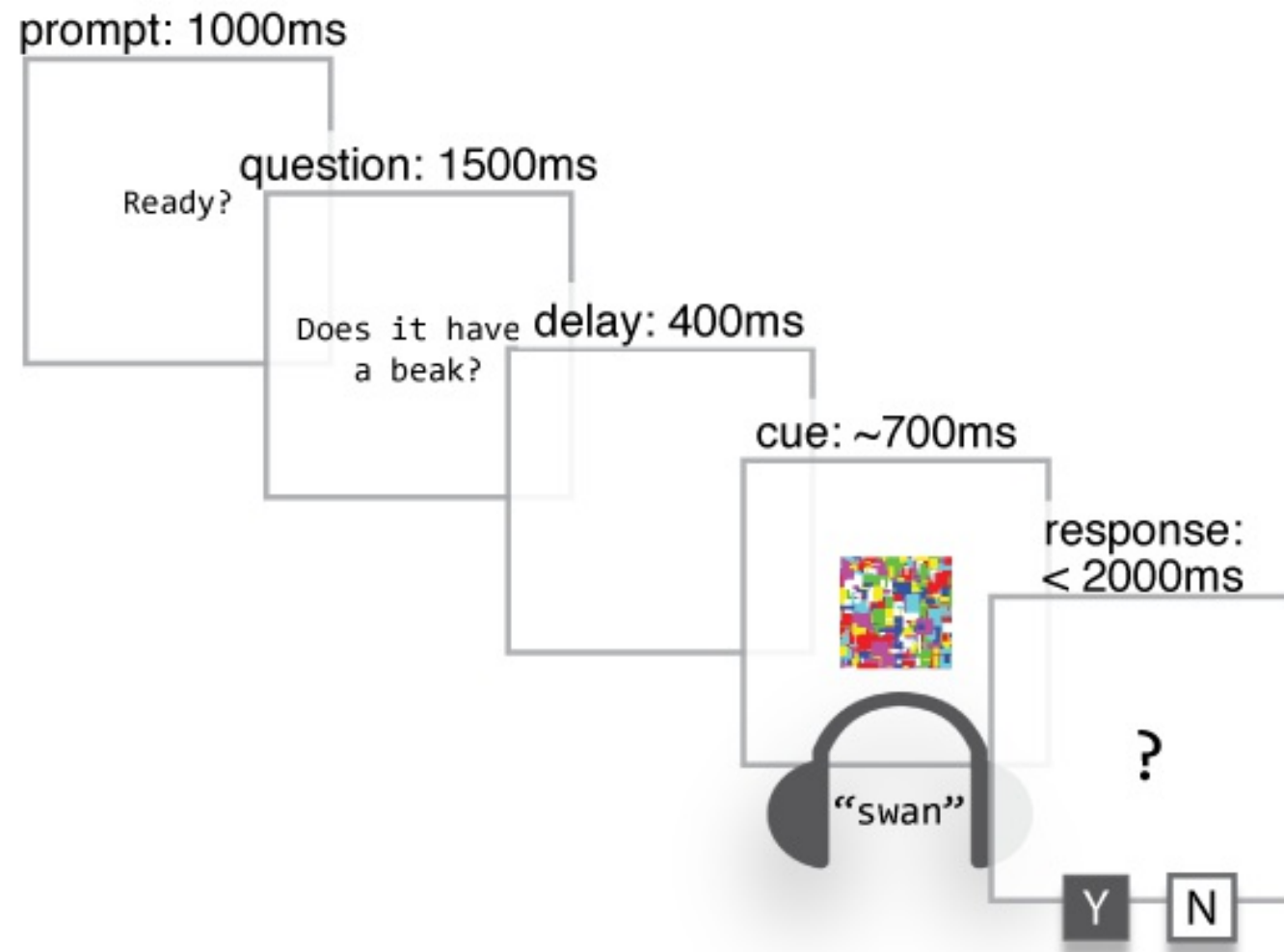


# Picture verification task

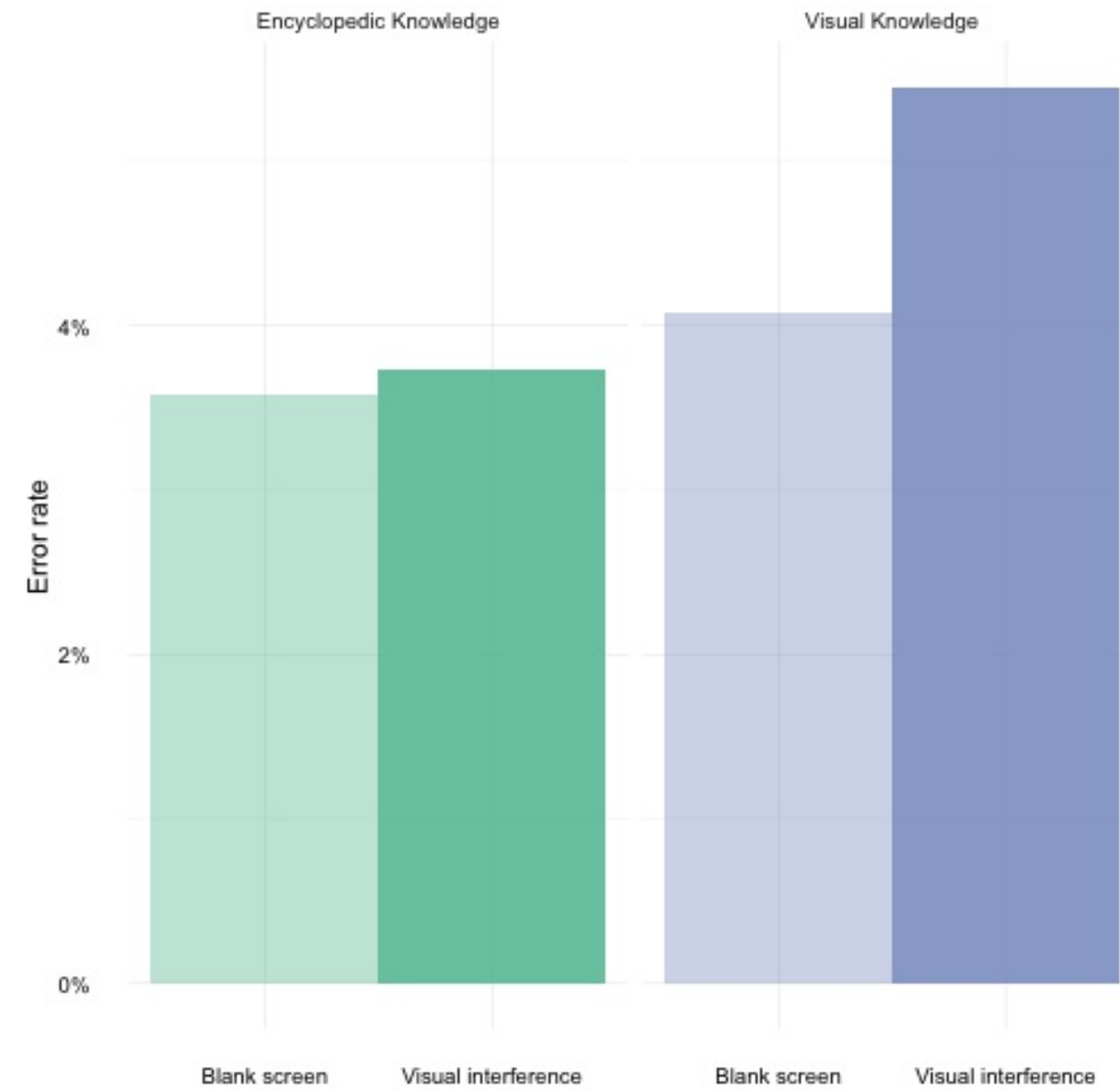


So... word meanings are  
symbolic?

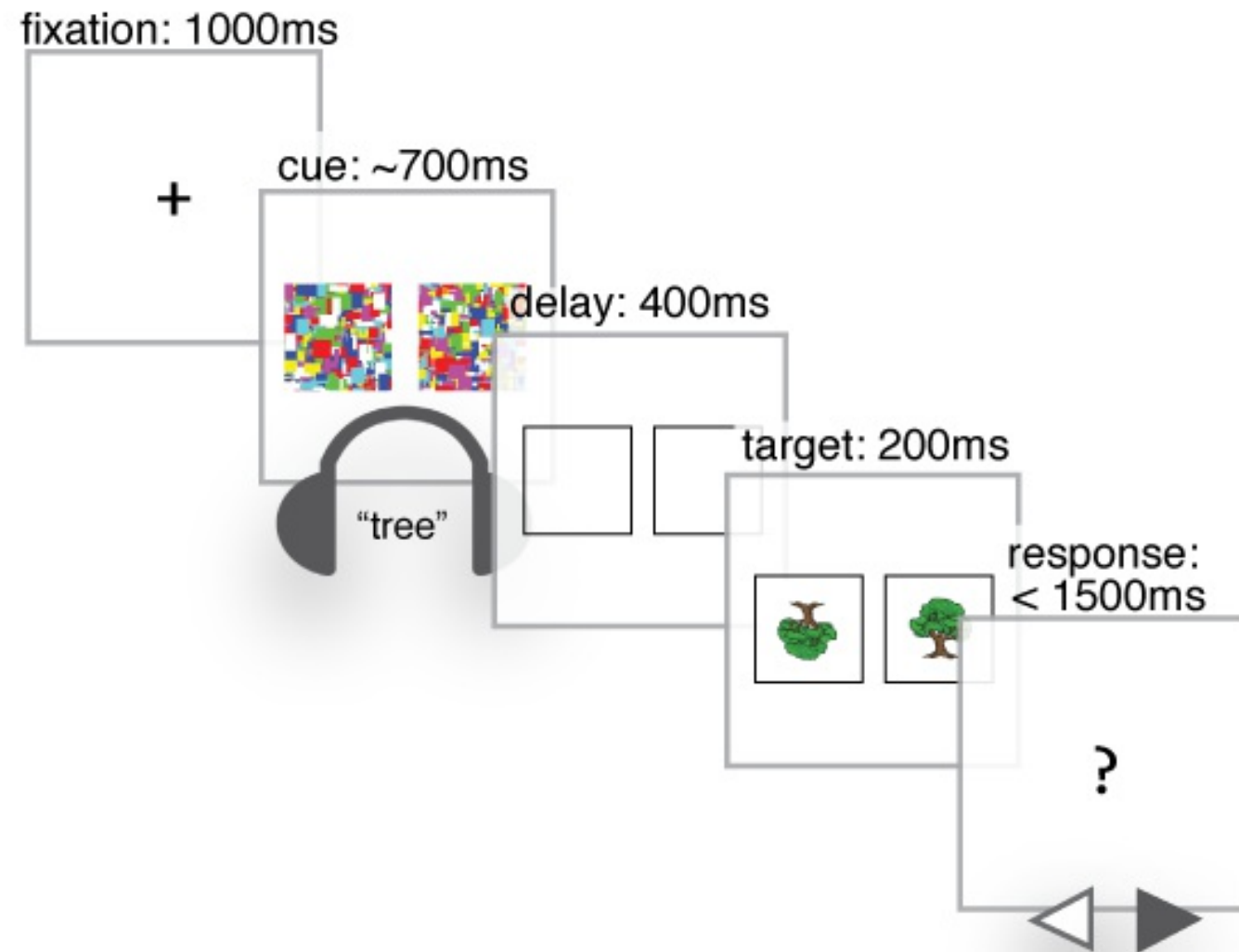
# Property verification



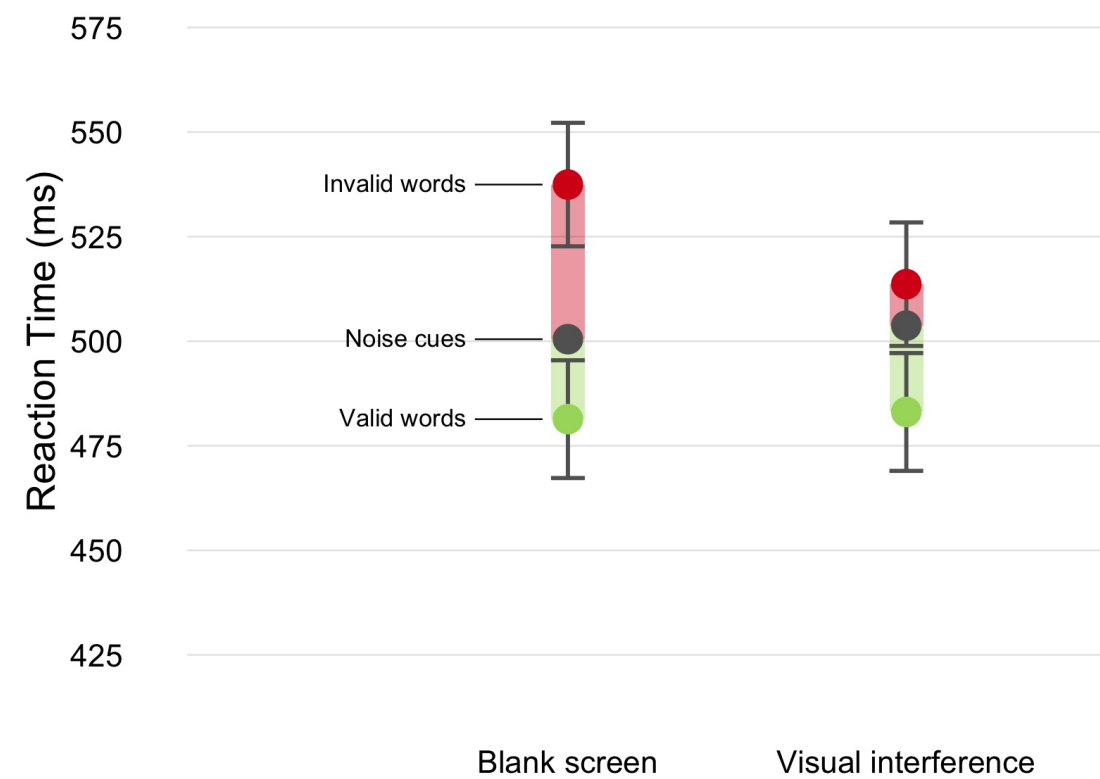
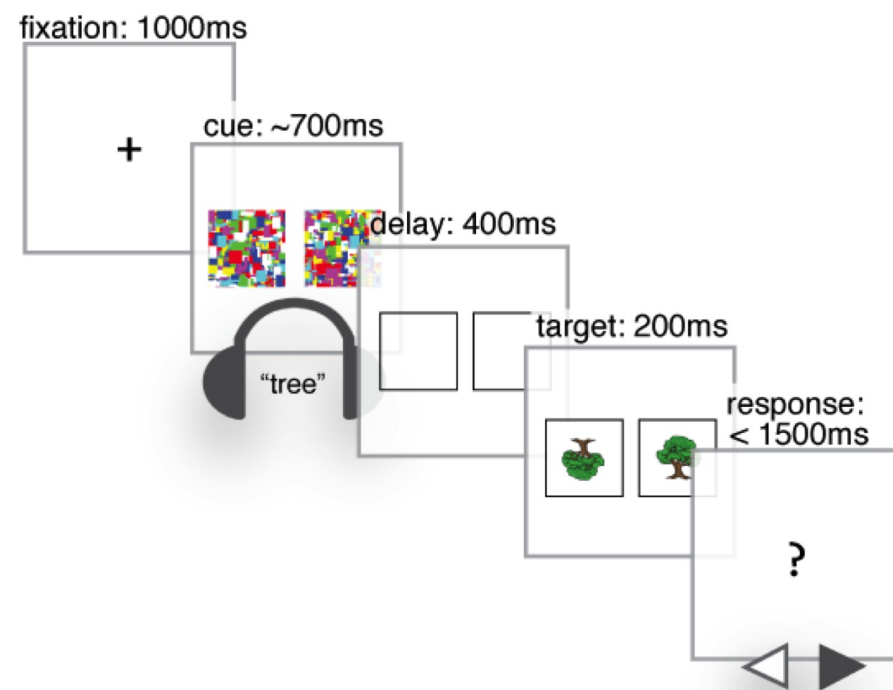
# Property verification



# Orientation discrimination



# Orientation discrimination



# Conclusions