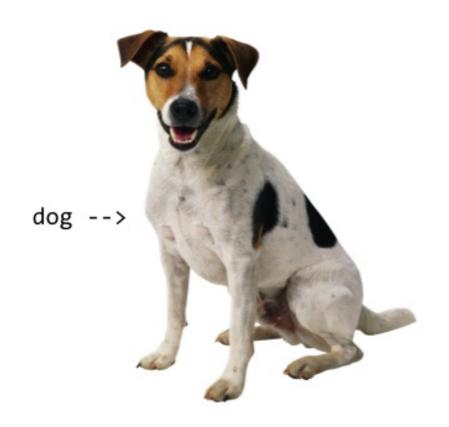
Studying word meanings through the eyes

Pierce Edmiston

How do words activate meaning?



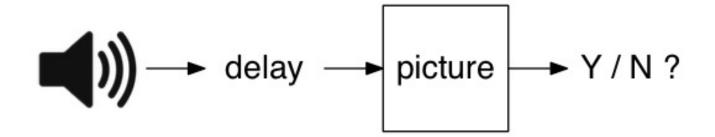
dog bark

Different cues to the same concept

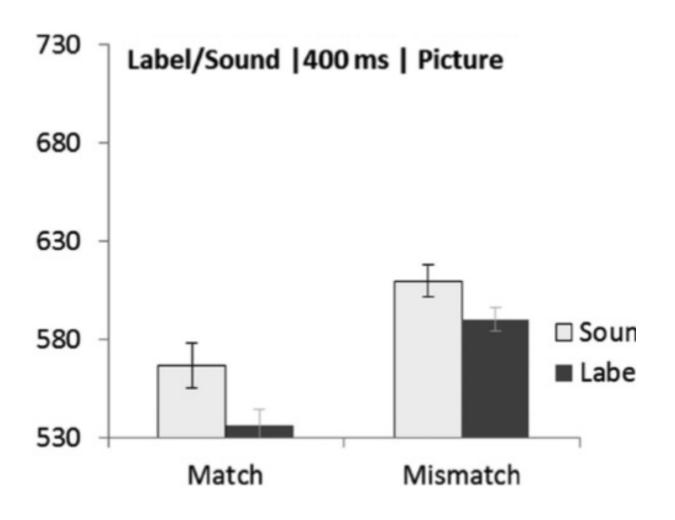
word	sound
"dog"	<bark></bark>
"cat"	<meow></meow>
"chainsaw"	<revving></revving>
"bowling ball"	<crashing pins=""></crashing>

•••

Picture verification task



Label advantage

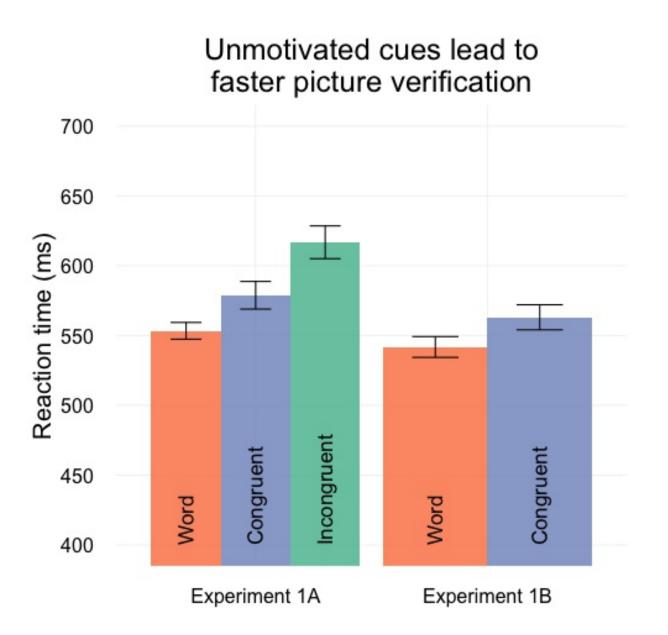


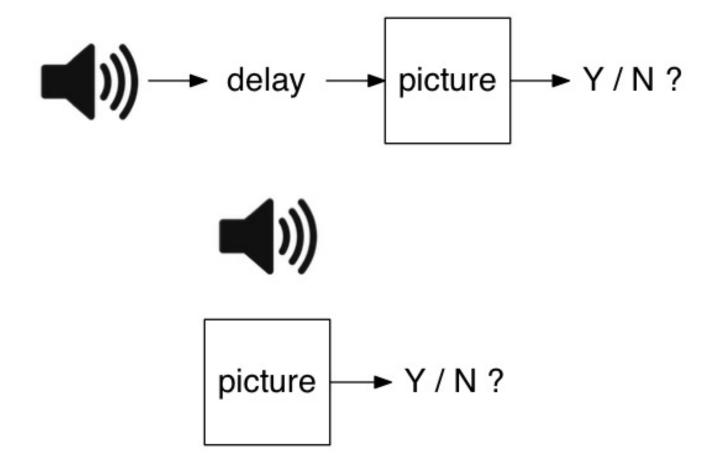
Lupyan & Thompson-Schill 2012 JEP:G

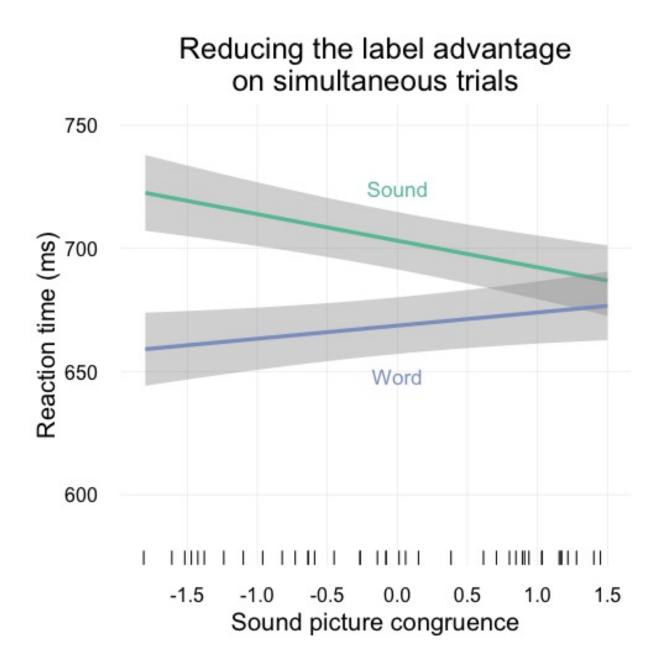
Words are unmotivated cues



guitar 1 guitar 2







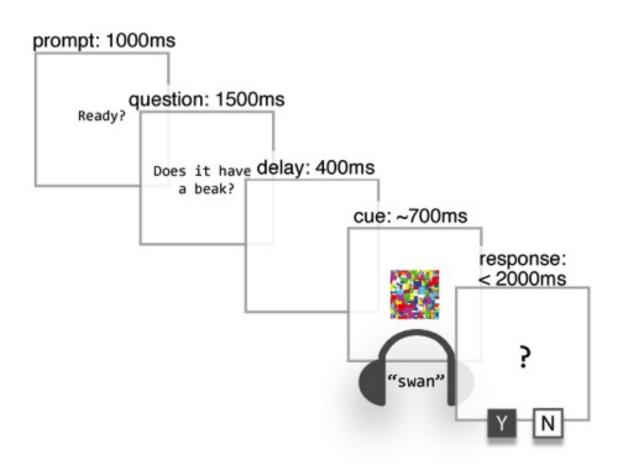
So, word meanings are abstract?

- Big whoop!
- Only unmotivated cues can do this.
- But how abstract?

Property verification task

question	cue	answer
Is it clothing?	jacket	yes
Does it have large ears?	tiger	no
Is it found at tables?	chair	yes
Does it lay eggs?	elephant	no
Is it furry?	donkey	yes
•••	•••	•••

Property verification task

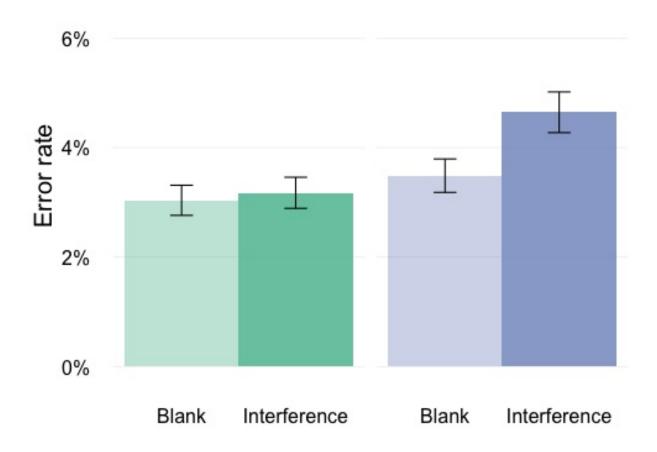


sample trial 1

sample trial 2

Visual interference disrupts visual knowledge

Encyclopedic Visual

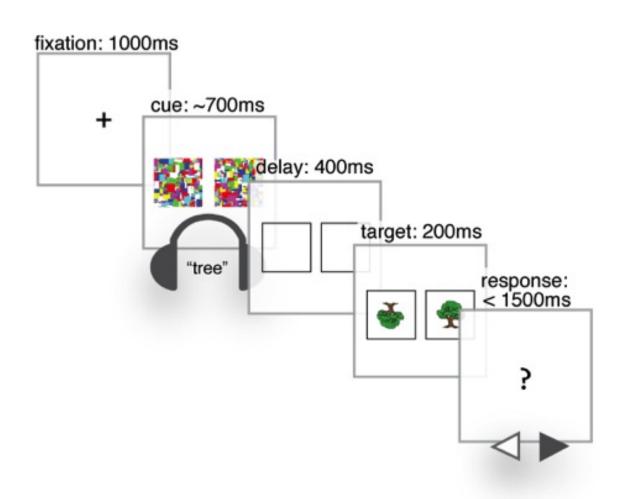


Orientation discrimination task



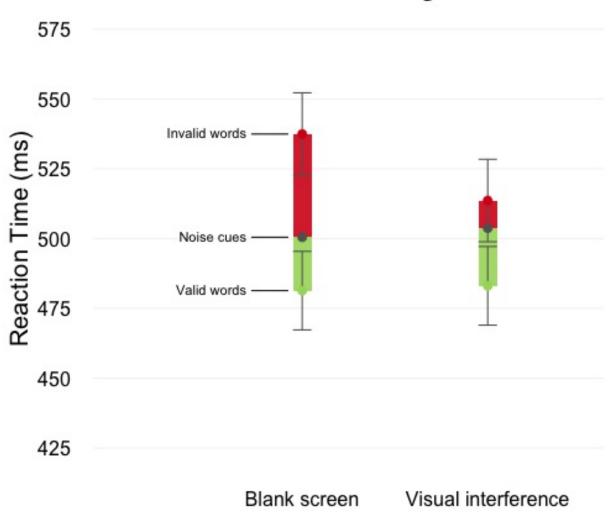


Orientation discrimination task



Orientation discrimination task

Visual interference disrupts verbal cueing



Conclusions

How do words activate meaning?

- Words are unmotivated cues.
- Visual knowledge is visual.

Thank you!

Pierce Edmiston

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github.com/pedmiston/studying-word-meanings

Edmiston & Lupyan (2015). What makes words special? Words as unmotivated cues. Cognition.

Edmiston & Lupyan (2016). Visual interference disrupts visual knowledge. *Journal of Memory and Language*.