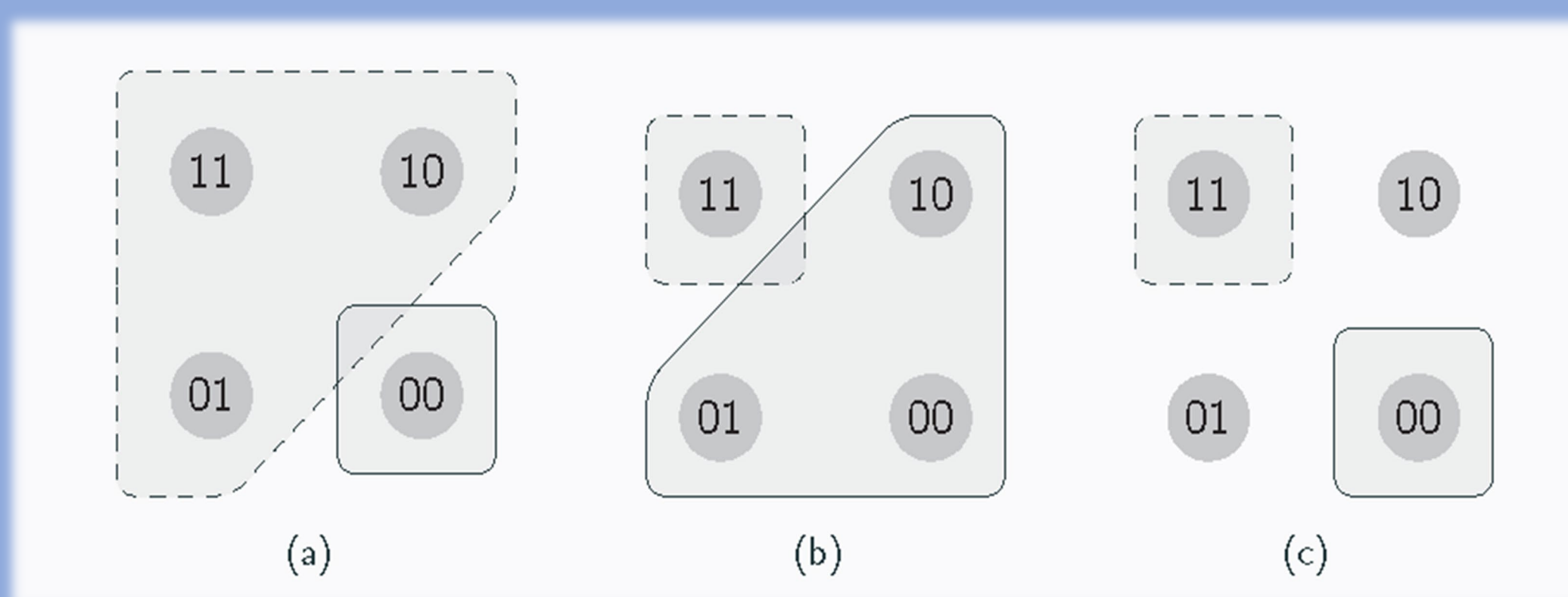


**A: May I visit the Rijks or Nemo with my Museumkaart?**  
**B: Yes/No**

## REASERCH QUESTIONS

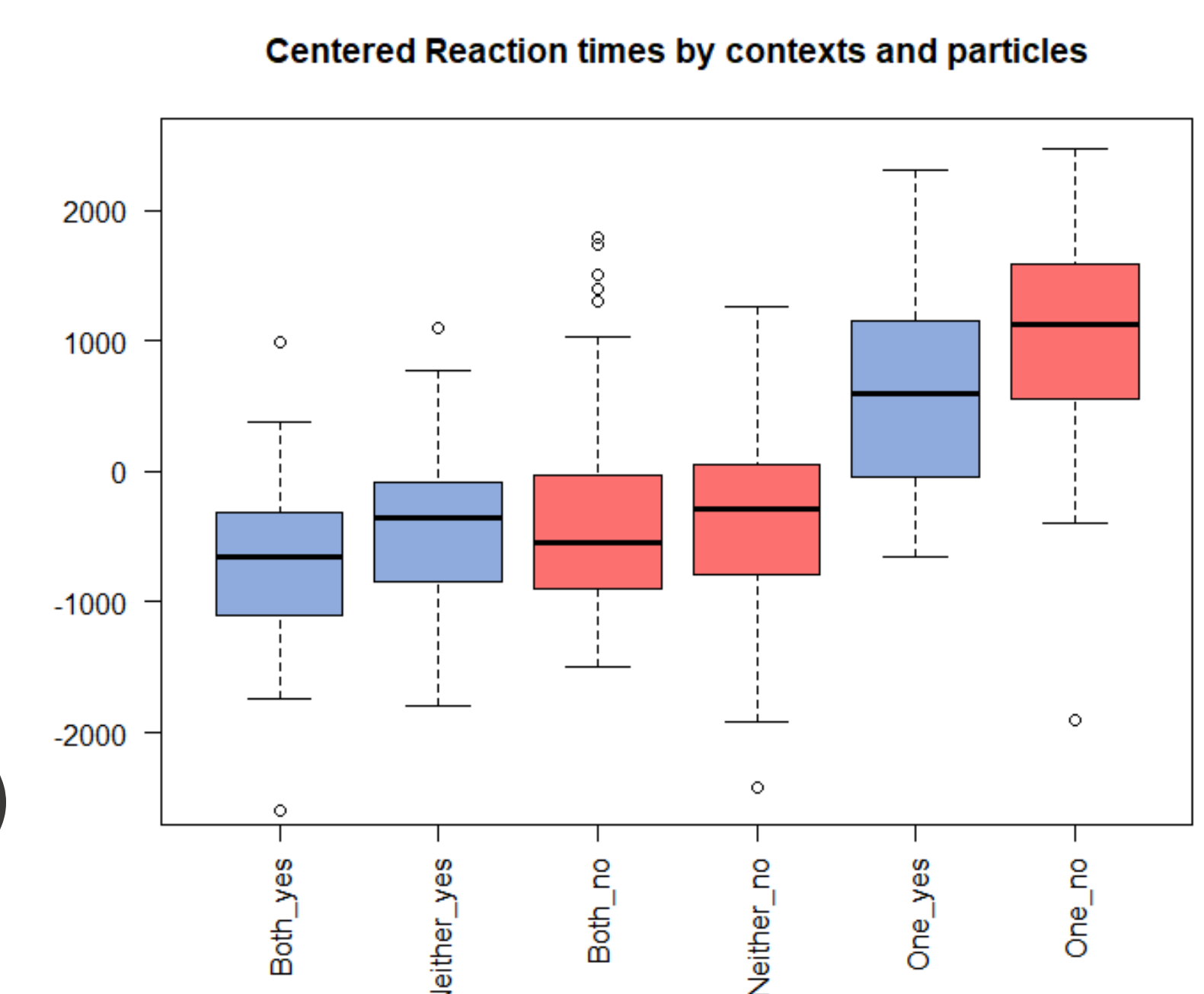
1. What do response particles (Yes and No) correspond to as answers to FCQs?
2. What is the source (pragmatic/semantic) of the inferences from the responses particles?



## RESULTS: CENTERED REACTION TIMES

$\mu_{RT} \approx 4.3sec$ ;  $\sigma_{RT} \approx 3sec$

- Negation effect:**  
( $\beta \approx 0.3sec$ ,  $p < .001$ )
- Zero model effect:**  
( $\beta \approx 1.4sec$ ,  $p < .001$ )
- Delay effect:**  
Insignificant ( $\alpha = .01$ )

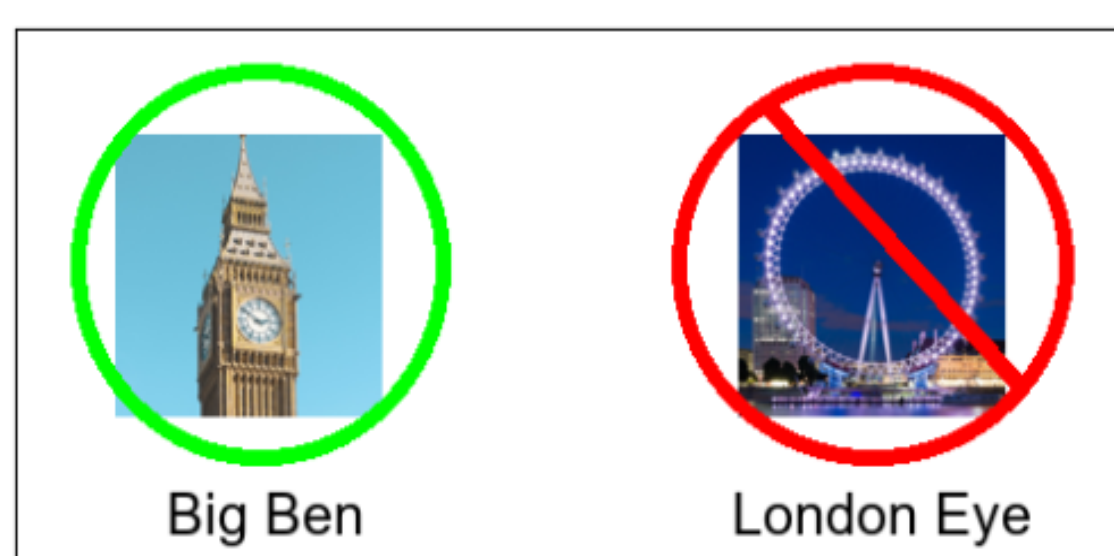


60 participants;  $2 \times 2 \times 3$ ; 48 test items + 24 fillers;

Response particles: **Yes, No.** ← Scenarios → Allowed items: **both, one, neither**

Bill is in London at a tourist office. He wants to know more about the tourist pass they offer. He asks the employee of the office:

BILL: Am I allowed to go to **Big Ben or the London Eye** with this pass?  
EMPLOYEE: **Yes**



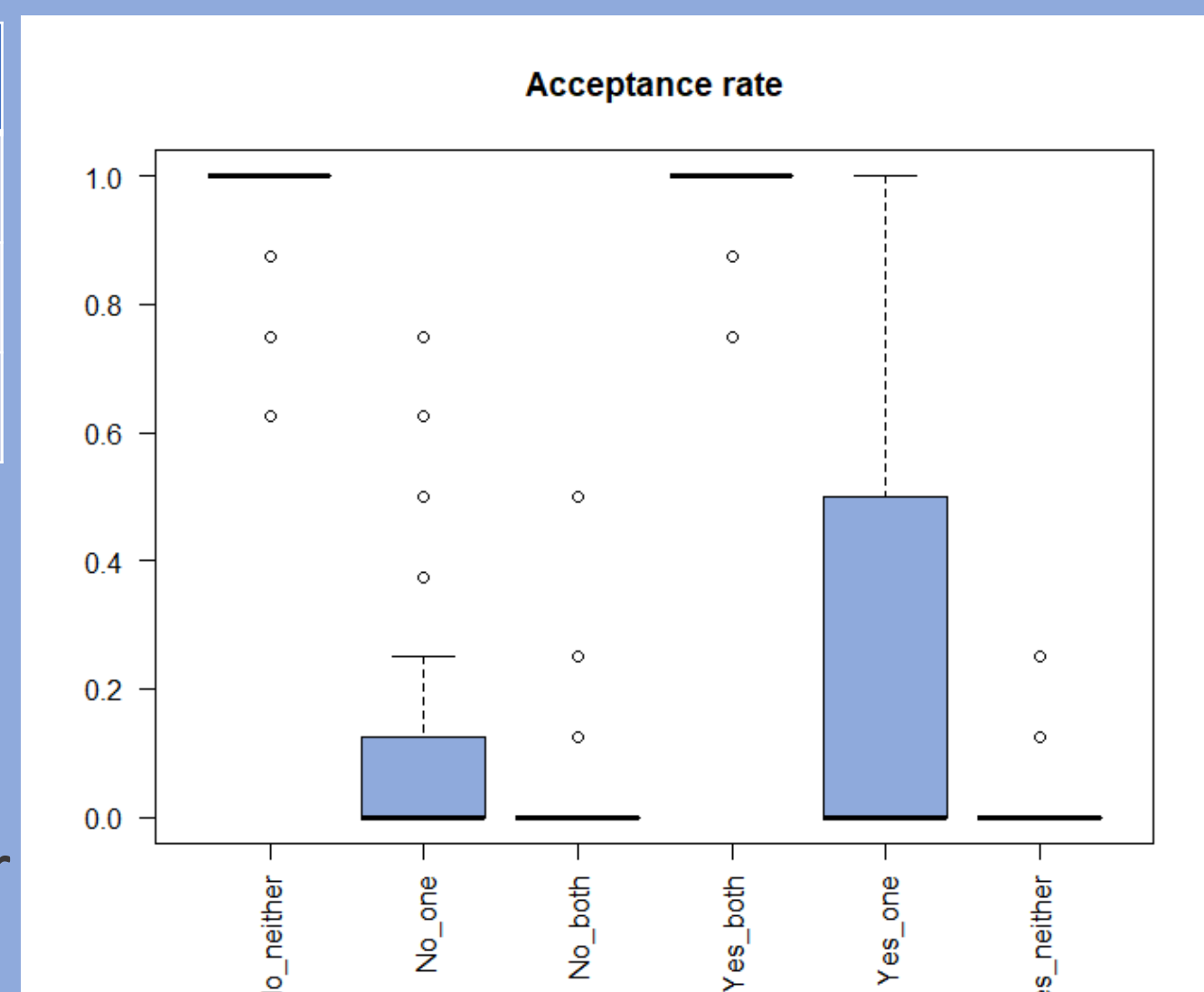
Was the employee's answer accurate given the picture?

## POSSIBLE THEORIES OF FCQs

- Semantic:** Inquisitive disjunction + Deontic modality (Nygren 2022)
- Grammatical:** Exhausting the set of alternatives and computing a scalar implicature. (Bar Lev & Fox 2020) Delay effect present.
- Homogeneity:** Disjunctions are homogeneous with respect to modal status." (Goldstein, 2019, p.35) Processing contexts in which presupposition is violated takes longer.
- Neglect-zero tendency:** In reasoning we systematically neglect zero models (Aloni 2022). Reasonings involving zero models take longer (Bott et al. (2019); Ramotowska et al. (2022))

## RESULTS: ACCEPTANCE RATE

Allowed:	Yes	No
Both	99%	3%
One	25%	9%
Neither	2%	98%



All differences are significant (mixed logistic regression);  
*ONE*-conditions are significantly closer to the *NEITHER*-condition for "Yes" and to the *BOTH*-condition for "No" ( $p < .001$ ).

"Yes" corresponds to Free Choice:  $\diamond(\alpha \vee \beta) \rightarrow \diamond\alpha \wedge \diamond\beta$

"No" corresponds to Dual Prohibition:  $\neg\diamond(\alpha \vee \beta) \rightarrow \neg\diamond\alpha \wedge \neg\diamond\beta$

## PREDICTIONS VS. DATA

$$?\diamond(\alpha \vee \beta) \leftrightarrow [\diamond(\alpha \vee \beta) \vee \neg\diamond(\alpha \vee \beta)]$$

Theory	FC	DP	FCQ	Longer RT	Delay
Classical Logic	✗	✓	-	No	No
Deontic InqLogic	✓	✗	✗	No	No
Exhaustivity	✓	✓	?	For FC	Yes
Homogeneity	✓	✓	✓	For FC & DP	Reversed FC & DP
BSML + NE	✓	✓	✓	For FC & DP	Reversed FC