Competing structural pressures + Active antecedent search

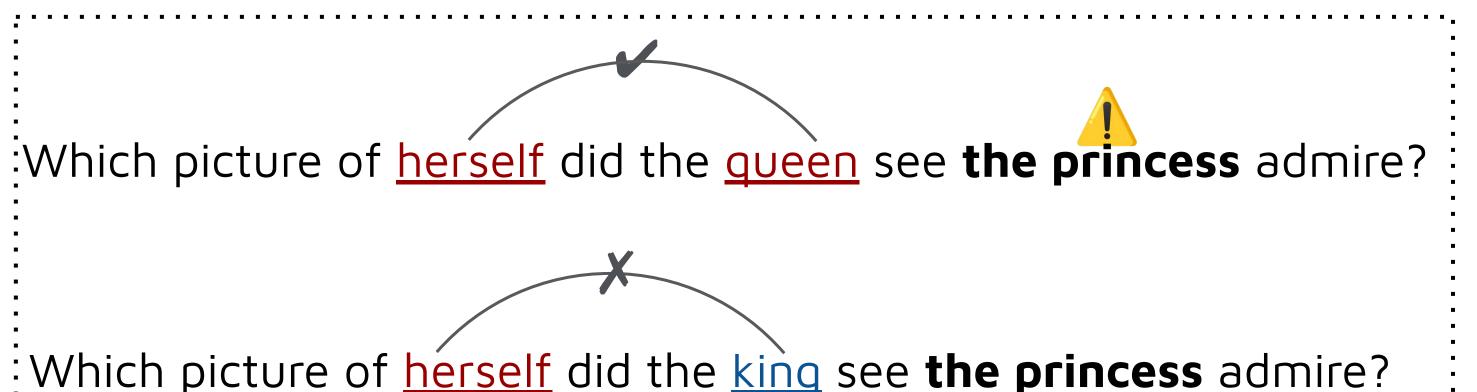
modulates gap prediction in Hebrew



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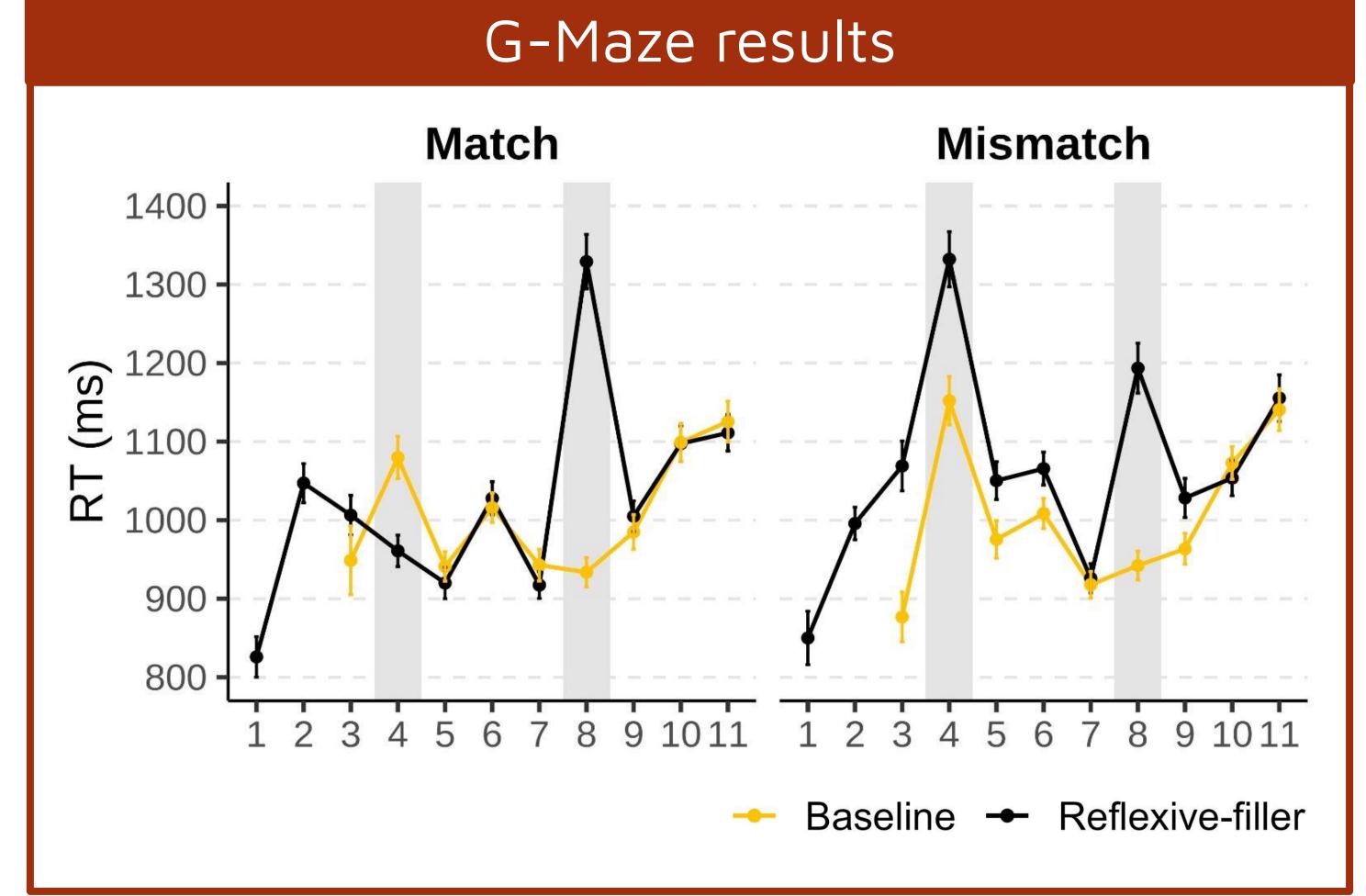
Introduction

We explore an interplay between filler-gap and cataphoric reflexive-antecedent dependencies.

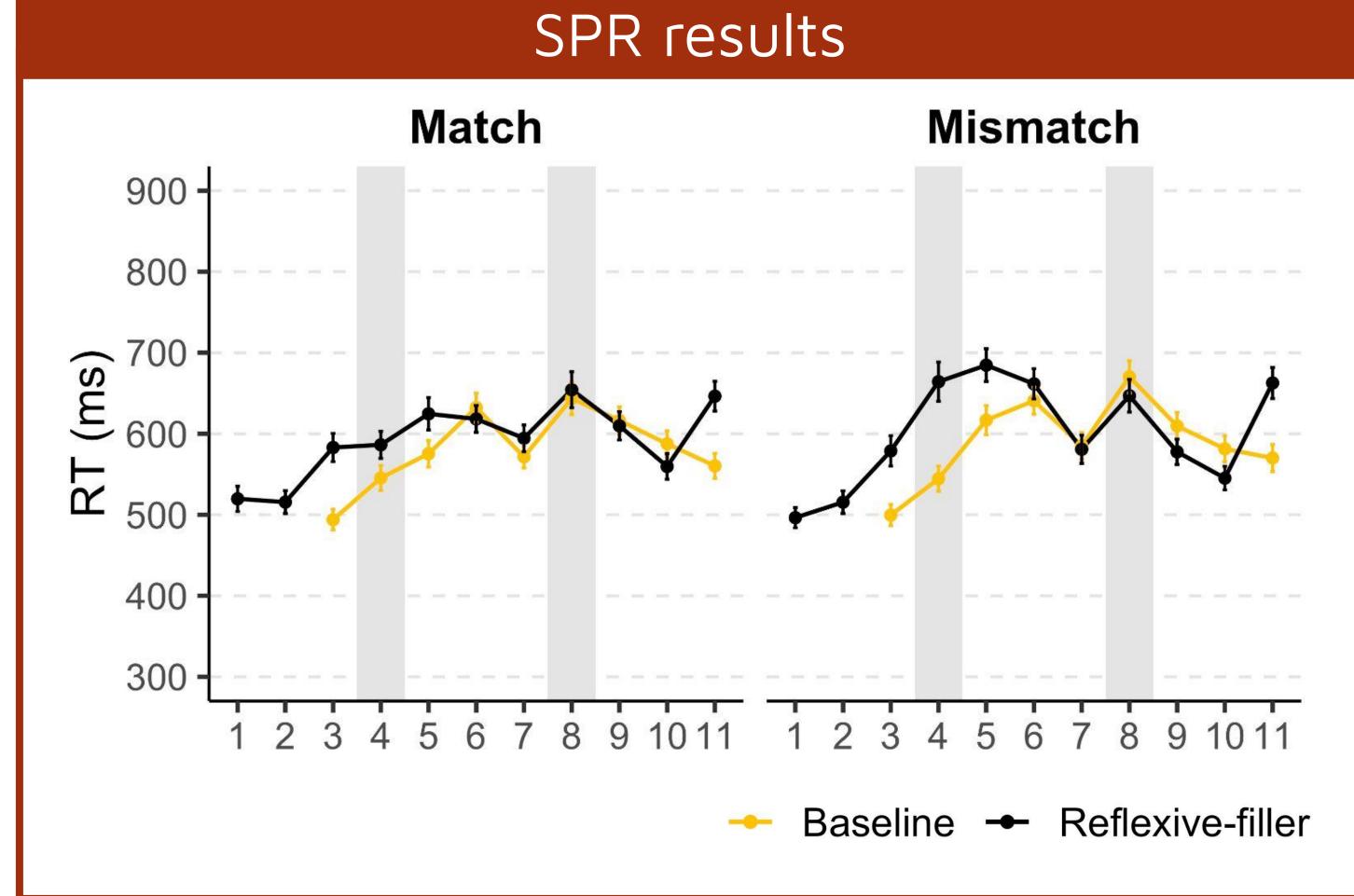


By embedding a **reflexive pronoun within a fronted wh-filler** and manipulating the **gender** of the highest subject, we examine whether

Method	G-Maze (60 subjects) & SPR (60 subjects) experiments in Hebrew, 2×2 (24 sets):	
reflexive filler	match	Which video of herself the-detective.F the-young.F from-America filmed.F ACC the- <u>suspect.F</u> the-arrogant delete secretly?
	mismatch	Which video of herself the-detective. M the-young. M from-America filmed. M ACC the-suspect. F the-arrogant delete secretly? Which video of herself did the young detective (M/F) from America film the arrogant suspect (F) delete secretly?
baseline	match	When the- detective.F the-young.F from-america filmed.F ACC the- <u>suspect.F</u> the-arrogant delete video of herself secretly?
	mismatch	When the-detective.M the-young.M from-america filmed.M ACC the- <u>suspect.F</u> the-arrogant delete video of herself secretly? When did the young detective(M/F) from America film the arrogant suspect(F) delete a video of herself secretly?







Subject (4): Structure \times Gender: p=.05. In the **mismatch** condition, RTs were significantly longer in the **reflexive** vs. **baseline** (p<.001), but not it the **match** condition (p=.07). Filled-qap (8): **No effects**

Discussion

Active antecedent search

~ The observed slowdown at a subject mismatching the reflexive replicates [1-3]: Readers initiate an active search for the cataphoric reflexive's antecedent, slowing down when a potential antecedent is not suitable.

Modulated FGE

- ~ The G-Maze revealed a significant FGE, reduced in the absence of a grammatical antecedent for the reflexive.
- \sim Readers are sensitive to the requirements of the reflexive-filler insofar as modulating their prediction for a gap.
- ~ However, the *mismatch* condition still displays a significant FGE. It's unclear why gap prediction persists where it would be ungrammatical. We suggest this reflects readers' inability to construct new predictions following the difficulty at the subject, perhaps opting to believe they had encountered a mistake.

SPR vs. G-Maze

While the SPR data failed to produce a FGE, the G-Maze, novelly implemented in Hebrew, revealed highly localized and large predicted effects [5].