# SKIPPING SYNTACTICALLY ILLEGAL "THE"-PREVIEWS: THE ROLE OF PREDICTABILITY





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## Word Skipping During Reading

- 1. Readers frequently skip words that are short and frequent $^{1,2}$  or predictable<sup>3</sup>
- 2. Readers also skip parafoveal previews of high-frequency words more often than low-frequency 3-letter words even when they are syntactically infelicitous<sup>4,5</sup>
  - (A) There was a massive ant infestation in..
  - (B) There was a massive the infestation in..
  - (c) There was a massive all infestation in..
- 3. There is a cost to skipping, with longer fixations following skipped words, but this cost is even greater after skipping an incorrect preview
- 4. If the target word is highly predictable, will parafoveal information of a different word block skipping decisions?

## PRESENT STUDY

- 37 UCSD undergraduates read 40 sentences
- 2 constraint (high vs. low Cloze target word) x 2 parafoveal preview (correct vs. the preview) design

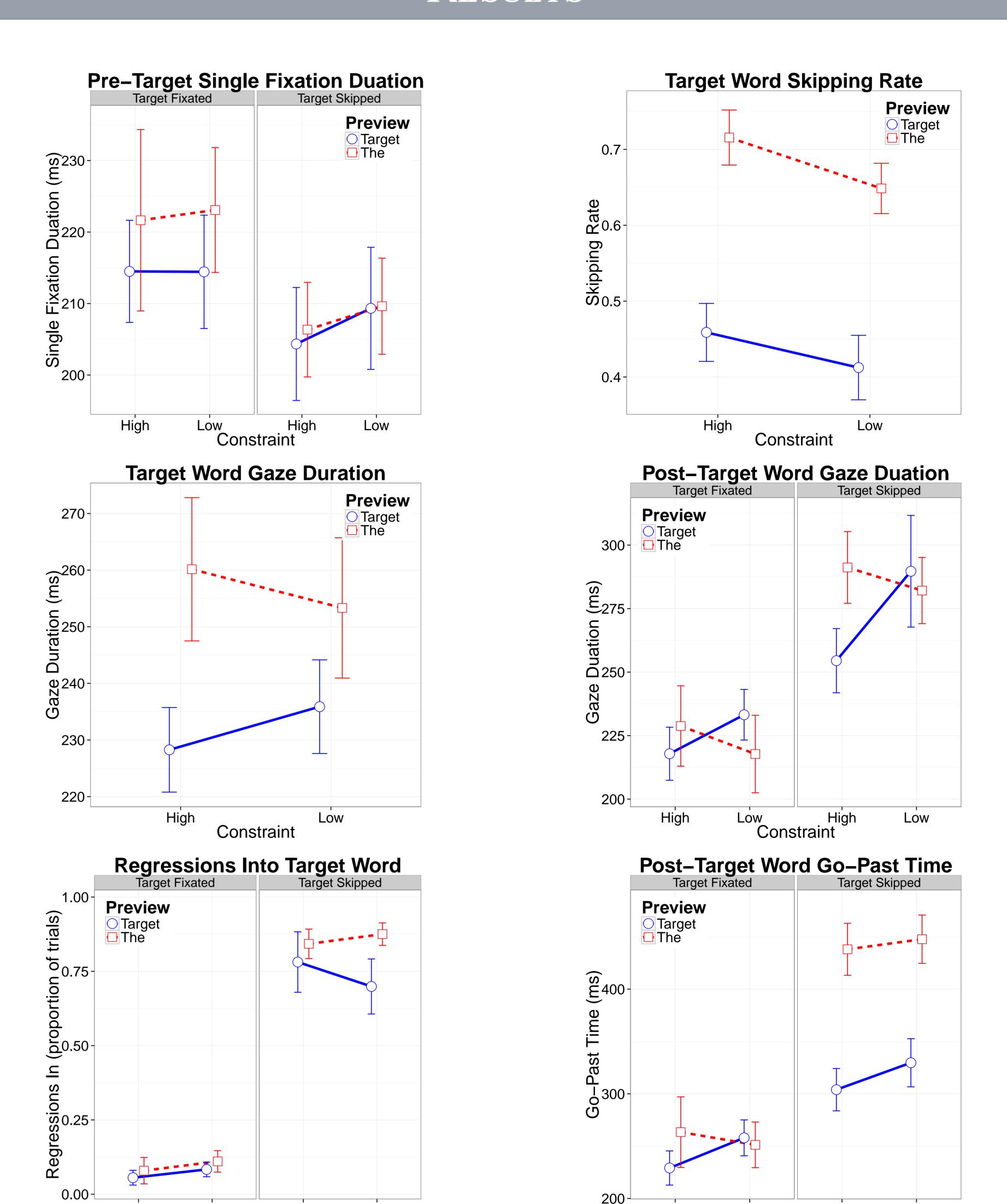
# Cloze Sentence ( | indicates boundary) High Jane used the scissors to carefully | cut scraps.. Jane used the scissors to carefully | the scraps.. Jane used the machine to carefully | cut scraps.. Low Jane used the machine to carefully | the scraps..

- Target word cloze probabilities: 0.77 for high constraint targets, 0.05 for low constraint targets
- Position of target in sentence did not differ between conditions
- Parafoveal preview controlled using the boundary paradigm<sup>6</sup>: on all trials the target word (cut) replaced the preview (e.g., cut or the) after readers' eyes crossed the boundary
- Display changes completed in 4ms on average (range 0-7ms)
- 10.53% of the data was removed due to improper display changes

### REFERENCES

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- 5. Angele, B., & Rayner, K. (2013). Processing the in the parafovea: Are articles skipped automatically? JEP: LMC, 39, 649-662.
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### RESULTS



### DISCUSSION

- Readers skip the word the more often than other 3-letter words
- Skipping of the often proceeds even when the context indicates that another word should occur in that position with high probability
- Constraint may boost the baseline rate of skipping short words the was skipped more often in high than in low constraint sentences
- Information from the sentence context and the parafovea both appear to influence skipping, but integration lags behind
- While readers are likely to regress to any skipped word, processing difficulty is most apparent after skipping an infelicitous word