Eye Movements and the Comprehension of Disfluent Speech

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Abstract

Disfluencies are speech errors that commonly occur during normal speech. They are typically repaired by the speaker to produce fluent speech. Disfluencies may be a weak source of information for the syntactic sentence as indicated by the pattern of eye movements. Thus, although syntactic structures are syntactically ambiguous, as in (1).

(1) Syntactic structure (i.e. the initiation of a complex constituent, if disfluencies are taken by the parser as cue to upcoming brief word in the constituent, and are infrequent beginning of a complex constituent (for example, a clause), or following the first word in the constituent, and are infrequent...

Introduction

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Materials and Methods

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One Referent Display Results

Introduction

• Syntactic structure: disfluencies from the theme NP (e.g. towel) are syntactically ambiguous, as in (1).
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The sets of objects usually associated with this paradigm only allow two points at which a reduced relative clause may have occurred. Thus, as this display is the least...

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Two Referent Display Results

Examples of Features

• Theme NP (e.g. towel) or probability of looks to particular regions following the two...

Context may mediate the importance of disfluencies as a cue. A marginal difference was also found in the probability of looks...

References

• References

Summary of Results

There were no significant differences for subjects in a marginal difference was also found in the probability of looks...

Conclusions

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