Indefinite crossover

Preliminary results

June 2023

Introduction / Recap

The design

Negation

Referent		Order		Reading
quantifier	х	binding / anaphora	х	coconstrued
indefinite		crossover / cataphora		"someone else"
proper name				

Relative clauses

Referent		Order		Reading
quantifier	Х	binding / anaphora	х	coconstrued
indefinite		crossover / cataphora		"someone else"
proper name				

In case of crossover, the paraphrases ensure that both readings have the referent scoping above negation / outside of the relative clause. (An additional reading exists where it scopes low and is not coconstrued with the pronoun.)

Changes from previous experiments

- No overt "distractor NP"
- A lot more contextual support (resulting in longer sentences)
- Plausibility of coconstrued vs. other reading not perfectly balanced (many scenarios slightly or significantly favour the coconstrued reading; previous experiments balanced them more carefully)

Overview of results

Overview of results: crossover

- Quantifiers still show an effect of (weak) crossover in this design, though absolute ratings are much higher
- Proper names show no effect of crossover once there is sufficient contextual support
- It's unclear whether indefinites participate in crossover
 - Indefinites have a significant effect of "crossover" with relative clauses, but this could also be explained by participants not taking the indefinite to have high scope outside the relative clause
 - Indefinites do not show an effect of crossover under negation; coconstrual appears to be available even when the pronoun c-commands the indefinite

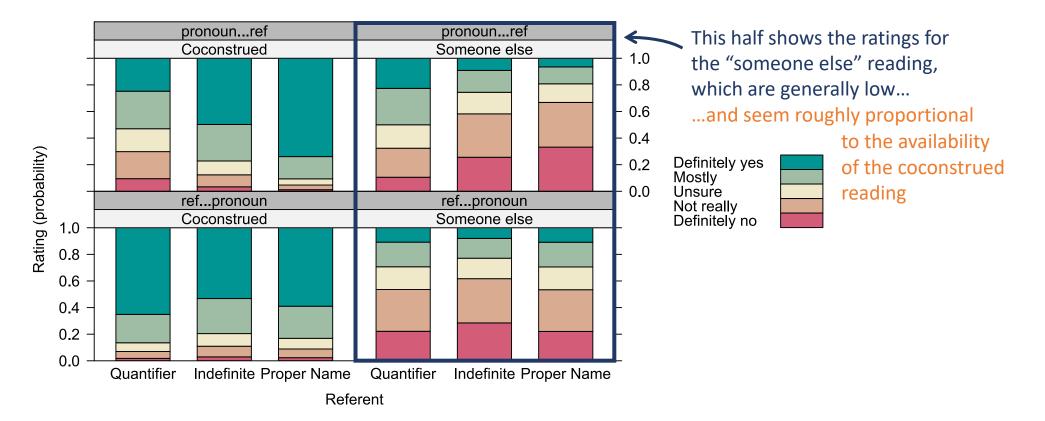
Overview of results: design

- It's important to **balance the plausibility** of the "someone else" reading with the coconstrued reading
 - Otherwise, the "someone else" ratings aren't useful / independent
 - It may be difficult to make them equally plausible without an overt distractor

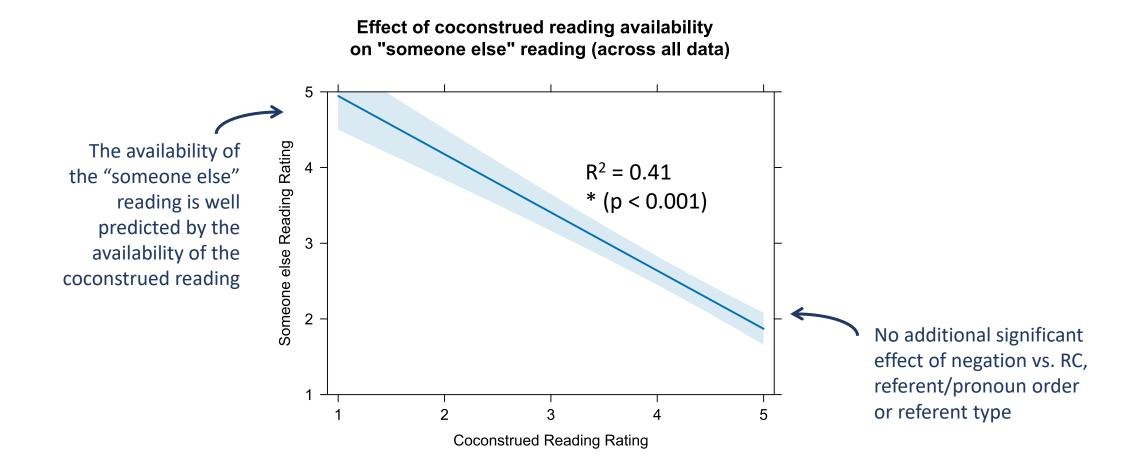
The "someone else" reading

Overall results & the "someone else" reading

Effect of referent/pronoun order on reading (negation only)



"Someone else" reading

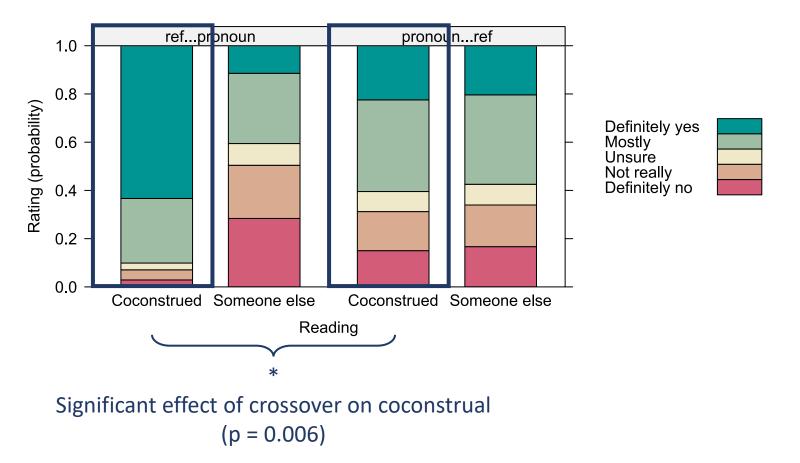


Breakdown by referent type

Quantifiers vs. indefinites vs. proper names

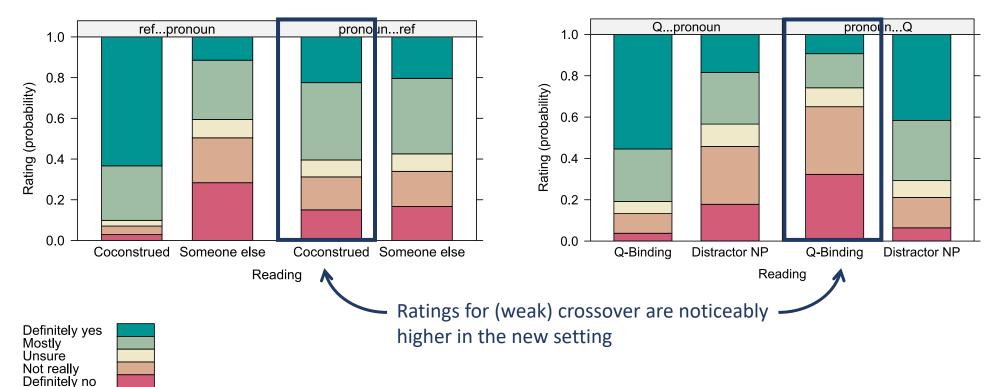
Quantifiers: effect of crossover vs. binding

Effect of quantifier/pronoun order on reading (negation only)



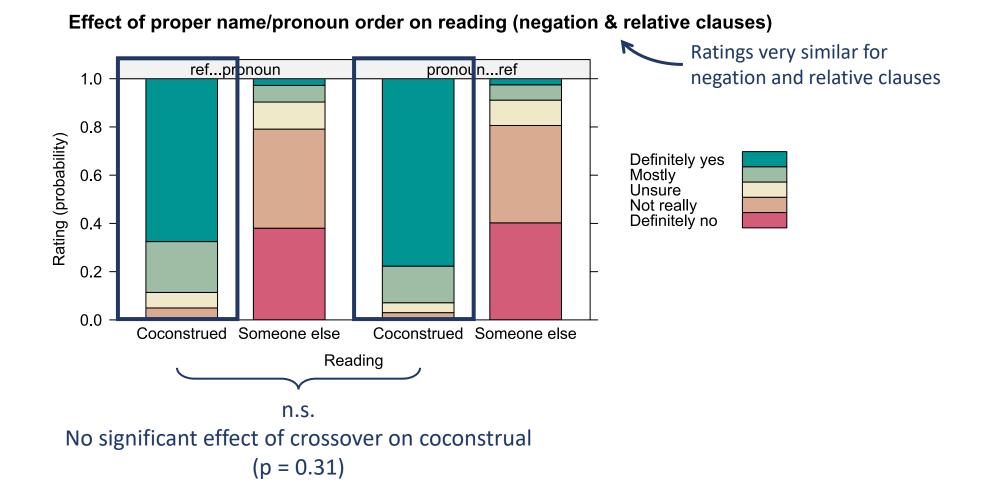
Quantifiers: between experiments

This study (with context & no distractor NP)



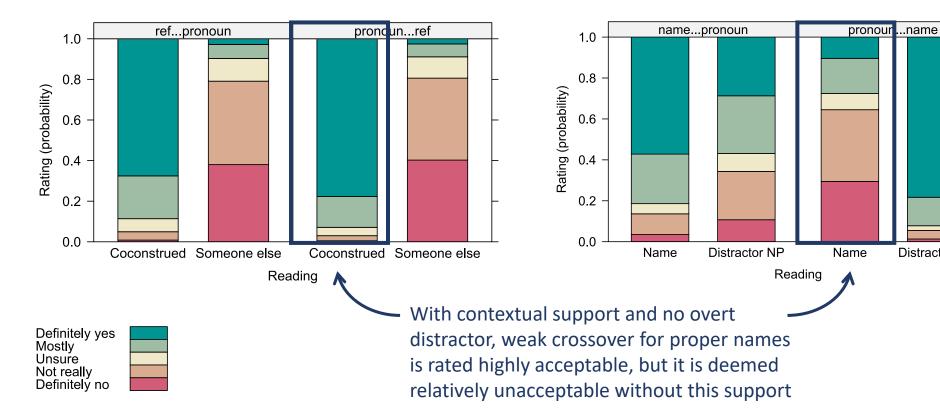
SuB study (showing weak crossover only)

Proper names: effect of crossover vs. anaphora



Proper names: between experiments

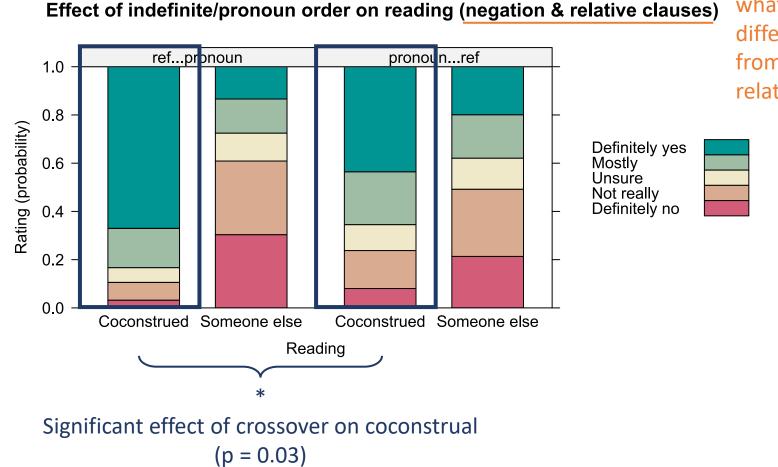
This study (with context & no distractor NP)



SuB study (showing weak crossover only)

Distractor NP

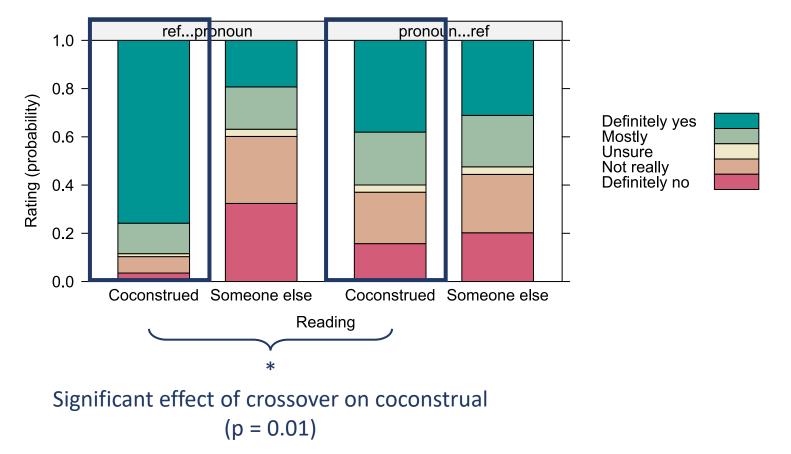
Indefinites: effect of crossover vs. anaphora



But! This is masking what's actually very different behaviour from negation and relative clauses

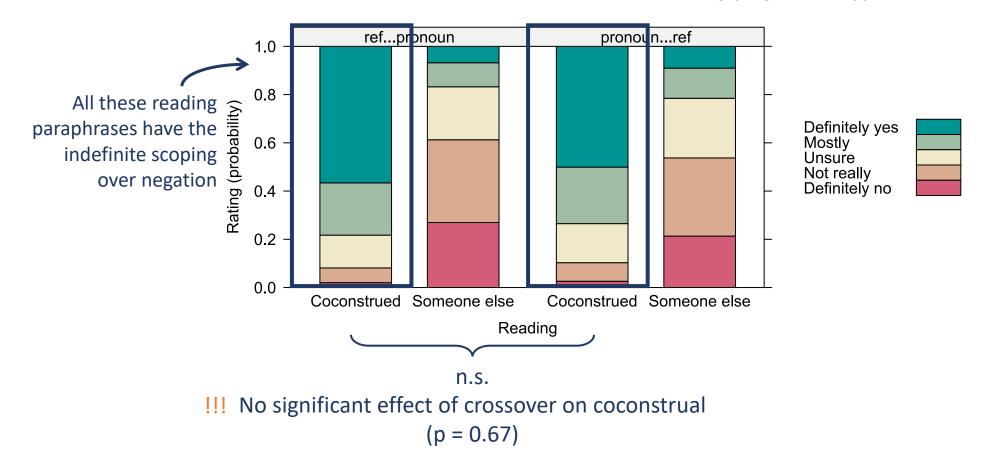
Indefinites: relative clauses & crossover

Effect of indefinite/pronoun order on reading (relative clauses only)



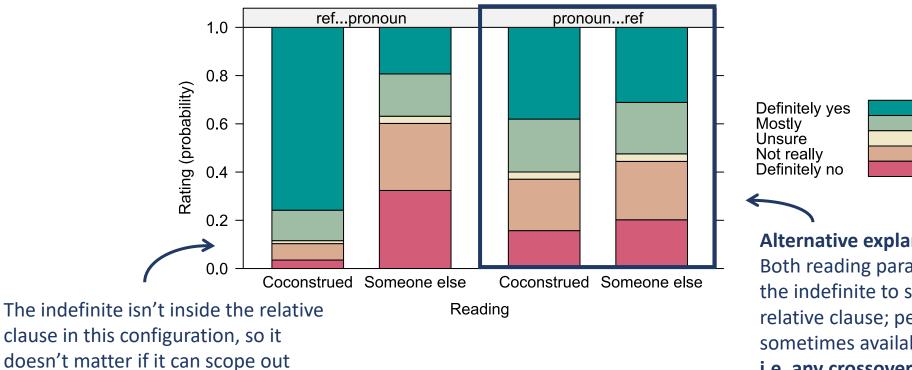
Indefinites: negation & crossover

Effect of indefinite/pronoun order on reading (negation only)



Indefinites: relative clauses & crossover

Why would relative clauses show crossover, but negation wouldn't?



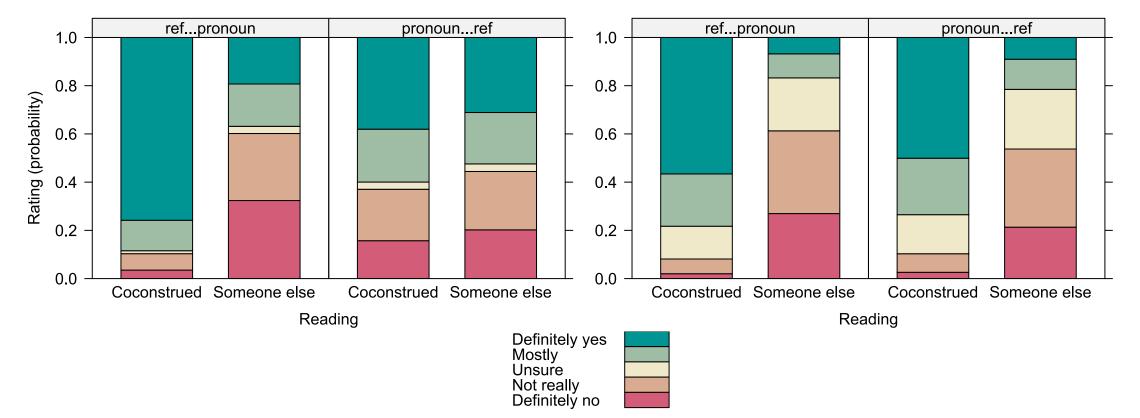
Effect of indefinite/pronoun order on reading (relative clauses only)

Alternative explanation:

Both reading paraphrases required the indefinite to scope out of the relative clause; perhaps this was only sometimes available to participants i.e. any crossover effect is masked by the lack of high scope

Indefinites: crossover comparison

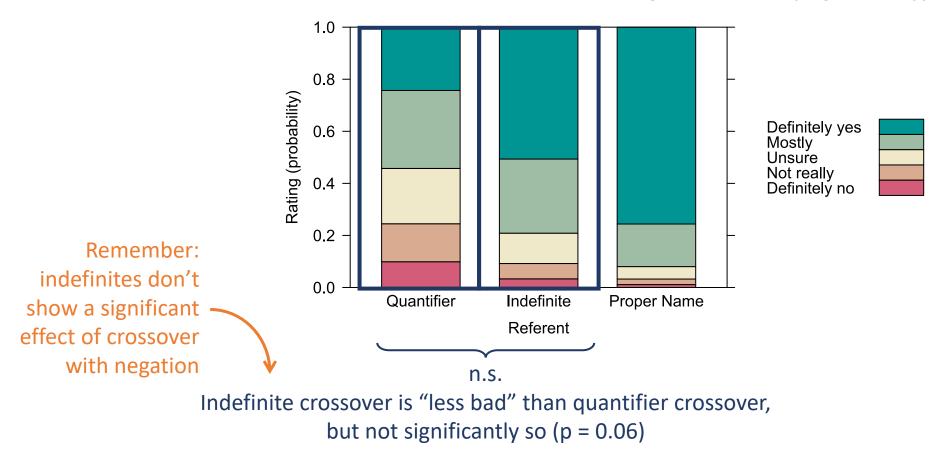
Relative clauses



Negation

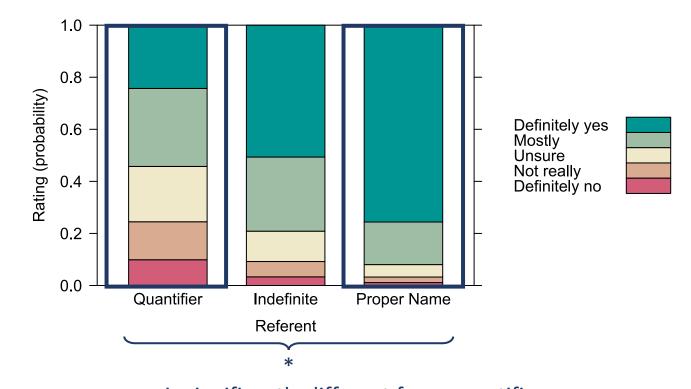
Effect of referent on crossover reading (I)

Effect of referent on coconstrued reading for crossover (negation only)



Effect of referent on crossover reading (I)

Effect of referent on coconstrued reading for crossover (negation only)

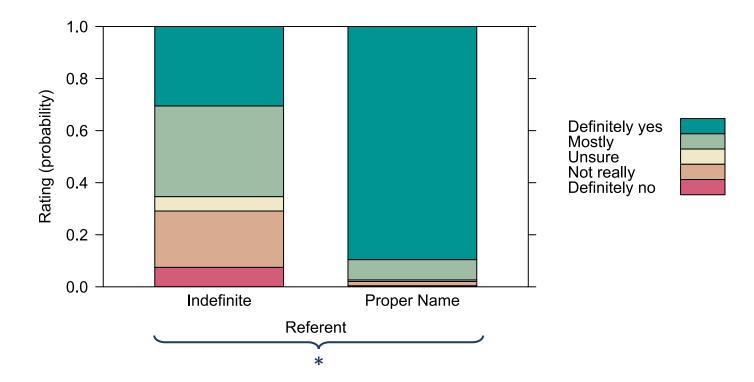


Proper name crossover is significantly different from quantifier crossover (in fact, proper names show no crossover effect)

(p = 0.002)

Effect of referent on crossover reading (II)

Effect of referent on coconstrued reading for crossover (relative clause only)

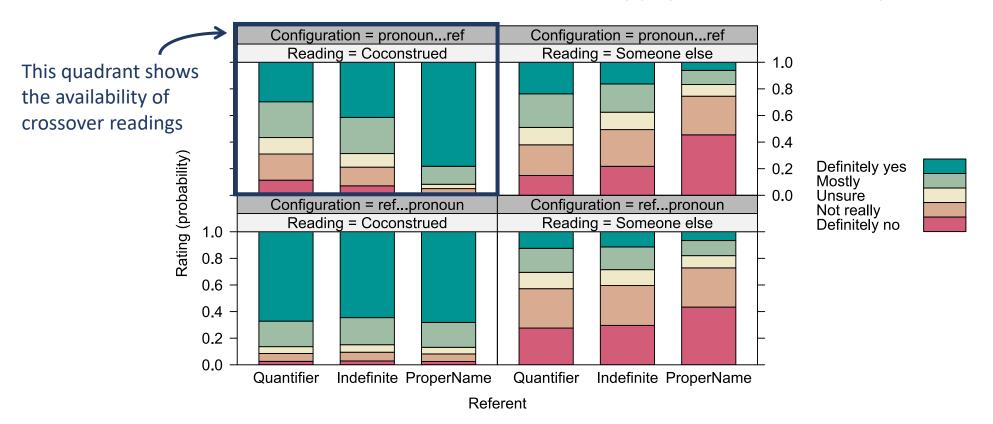


Proper name crossover is significantly different from (relative clause) indefinite crossover (in fact, proper names show no crossover effect)

(p = 0.008)

Appendix

Overall results



Effect of referent/pronoun order on reading (negation & relative clauses)

Overall results

Configuration = pronoun...ref Configuration = pronoun...ref Reading = Coconstrued Reading = Someone else 1.0 0.8 0.6 0.4 This comparison Rating (probability) Definitely yes 0.2 shows crossover Mostly 0.0 Unsure (pronoun...referent) Configuration = ref...pronoun Configuration = ref...pronoun Not really Reading = Coconstrued Reading = Someone else vs. binding Definitely no 1.0 (referent...pronoun) 0.8 for quantifiers 0.6 0.4 0.2 0.0 Quantifier Indefinite ProperName Indefinite ProperName Quantifier Referent

Effect of referent/pronoun order on reading (negation & relative clauses)

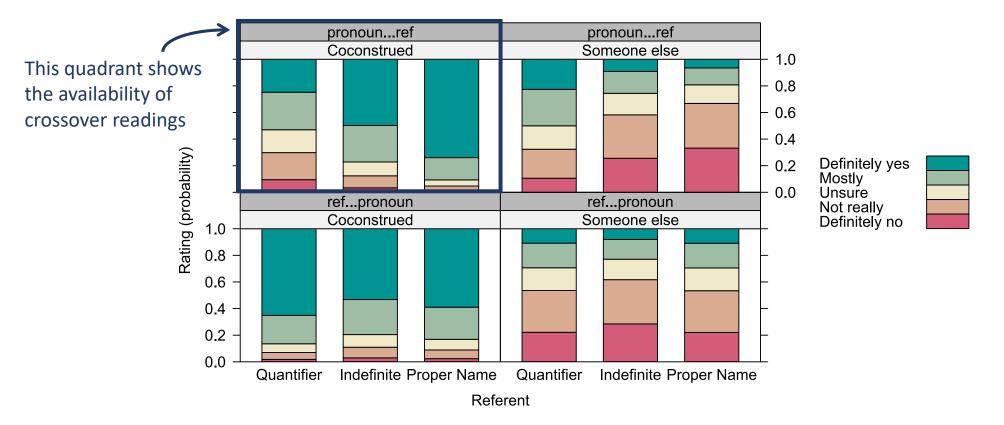
Overall results

Configuration = pronoun...ref Configuration = pronoun...ref This half shows the ratings for Reading = Coconstrued Reading = Someone else 1.0 the "someone else" reading, 0.8 which are generally low 0.6 (and roughly proportional to the 0.4 availability of Rating (probability) Definitely yes 0.2 the coconstrued Mostly 0.0 Unsure reading) Configuration = ref...pronoun Configuration = ref...pronoun Not really Reading = Someone else Reading = Coconstrued Definitely no 1.0 0.8 0.6 0.4 0.2 0.0 Quantifier Indefinite ProperName Quantifier Indefinite ProperName Referent

Effect of referent/pronoun order on reading (negation & relative clauses)

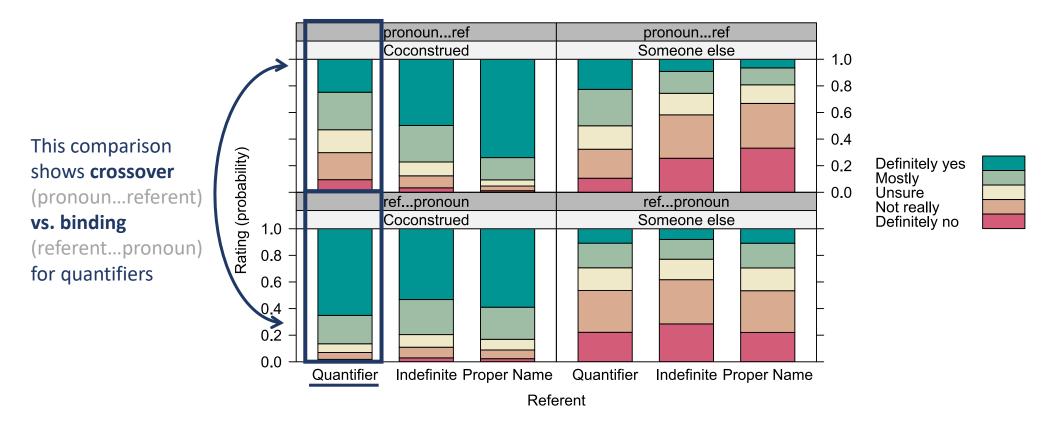
Overall results: negation

Effect of referent/pronoun order on reading (negation only)



Overall results: negation

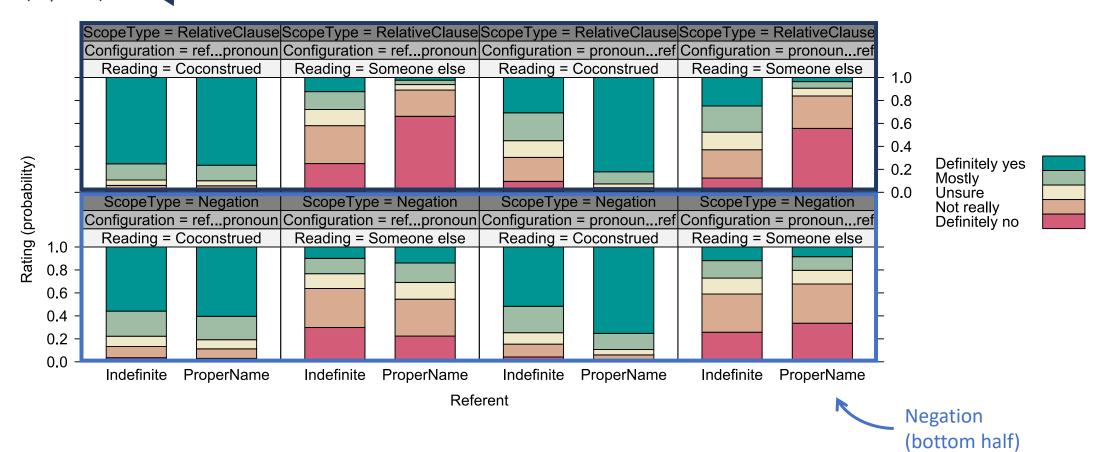
Effect of referent/pronoun order on reading (negation only)



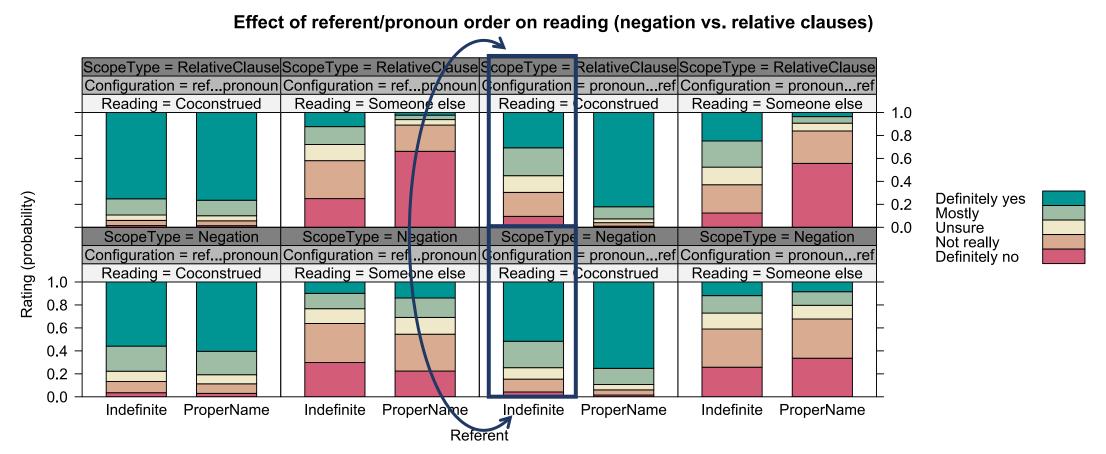
Negation vs. relative clauses

Relative clauses _ (top half)

Effect of referent/pronoun order on reading (negation vs. relative clauses)



Negation vs. relative clauses



This comparison shows that the coconstrued reading is more available for indefinite crossover with negation than with relative clauses, but this is not significant (p = 0.24)

Negation vs. relative clauses (flipped)

Effect of referent/pronoun order on reading (negation vs. relative clauses)

