What is at-issueness? An experimental comparison of diagnostics

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At-issueness

Introduction

Distinguish propositional content expressing the main point of an utterance (at-issue content) from those conveying background information (not-at-issue content) (e.g., Potts 2005)

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► This work: take a step in addressing this question, by investigating whether different commonly used diagnostics yield the same results for propositional contents introduced by the same kinds of expressions?

Preview

Introduction

Our results suggest that:

- Exps. 1–4: The diagnostics we test **do not all yield the same results**
- ► Exps. 5–6: The speech act matters: We get a clearer picture when assessing the not-at issue content of different expressions in **questions** rather than assertions

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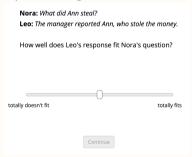
► We offer a systematic experimental comparison

Question-based at-issueness diagnostics

Question-based diagnostics assume a conception of at-issueness relative to the QUD: At-issue content is the part of an utterance that interacts with the current QUD

(Amaral et al. 2007; Simons et al. 2010)

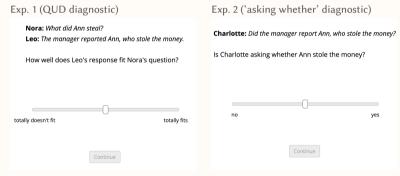
Exp. 1 (QUD diagnostic)



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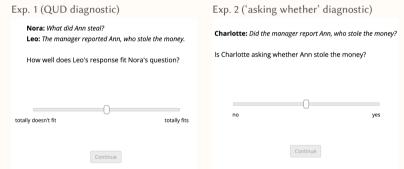
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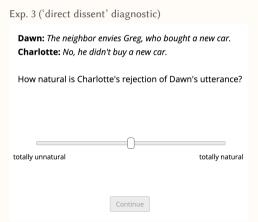


Other diagnostics make other assumptions

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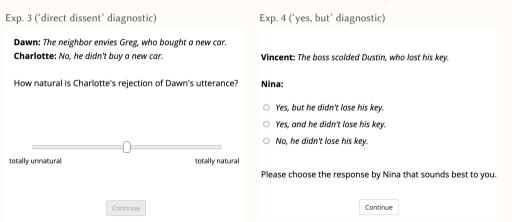
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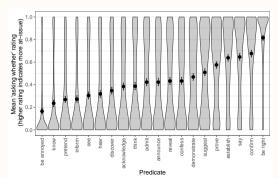
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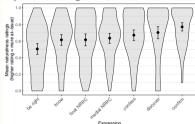
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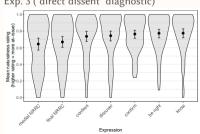
Experiments 1–4: Method

In each experiment, 80 participants saw each of 7 conditions once, each randomly paired with a clause to instantiate it (item), e.g. *Greg bought a new car*, + 2 controls (attention checks)

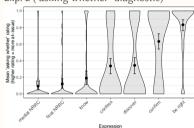
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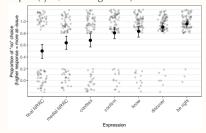
Exp. 3 ('direct dissent' diagnostic)



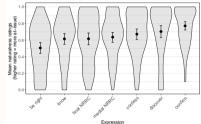
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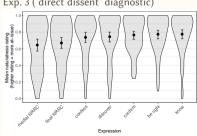
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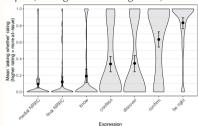
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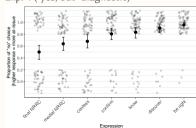
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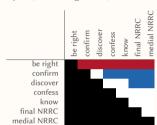
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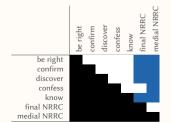
Exp. 2 ('asking whether'): greatest differentiation between contents

- Range of means
- More pairwise differences between contents

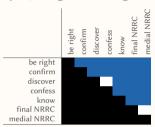
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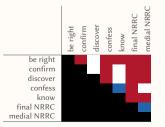
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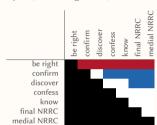
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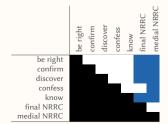
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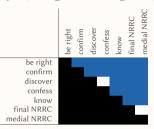
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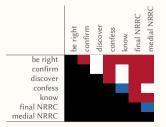
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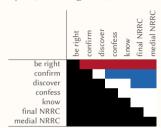


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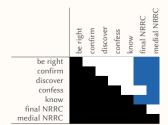
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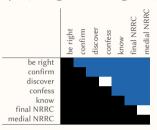
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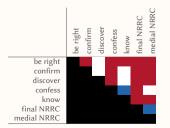
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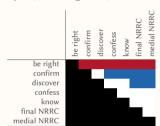
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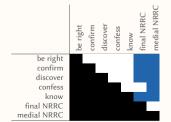
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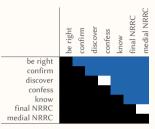
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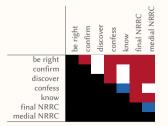
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Final NRRCs are not more at issue than medial NRRCs

Fine-grained differences only with 'asking whether'

Content rankings always different

- Most pairwise differences inconsistent
- be right very different for QUD diagnostic

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We further explore this question:

Why does Exp. 2 'asking whether' show a greater differentiation of contents than the other diagnostics?

Why is "asking whether" so different?

Previous literature:

▶ Question-based vs. assertion-based at-issueness diagnostics:

The question-based diagnostics (QUD, 'asking whether') are about whether a proposition is at issue relative to a QUD introduced in the previous discourse, wheras assertion-based diagnostics (direct dissent, 'yes but') target a different underlying notion

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- **1** Question embedding:
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- 2 Response task:
 - ...when participants are more directly asked what the utterance was about vs. when giving acceptability judgment or forced-choice continuation responses.

In Exps. 5-6, we test whether the fine-grained differences among clause-embedding predicates observed with 'asking whether' diagnostic are replicated with other diagnostics.

Exp. 5 ('asking whether' diagnostic)

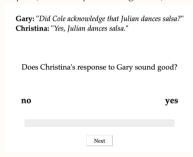


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Exp. 6 ('direct response' diagnostic)



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Ruth asks: "Did Helen discover that Tony had a drink last night?"

Is Ruth asking whether Tony had a drink last night?

no yes

Exp. 5 ('asking whether' diagnostic)

Exp. 6 ('direct response' diagnostic)

Gary: "Did Cole acknowledge that Julian dances salsa?"
Christina: "Yes, Julian dances salsa."

Does Christina's response to Gary sound good?

no yes

1 If question embedding is what allows for greater differentiation between contents, results from Exp. 5 and Exp. 6 should be very similar

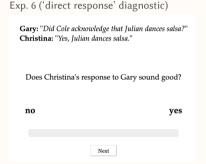
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- 1 If question embedding is what allows for greater differentiation between contents, results from Exp. 5 and Exp. 6 should be very similar
- 2 If **response task** is what allows for greater differentiation between contents, results from Exp. 5 and Exp. 6 should be **rather different**

Materials + procedure

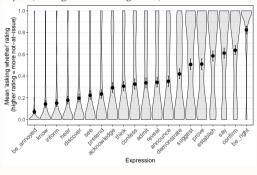
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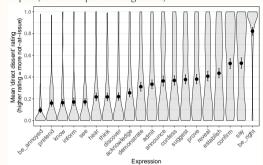
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- Across the two experiments, 550 participants saw each of 20 conditions once, each randomly paired with a clause to instantiate it (item), e.g. *Julian dances salsa* + 6 control trials (attention checks)

Results

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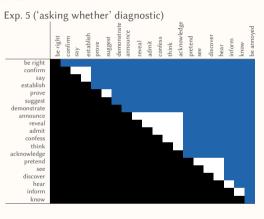


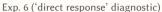
Exp. 6 ('direct response' diagnostic)

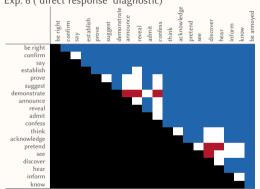


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Discussion

- ► High correlation of results from Exps. 5–6 suggests that the response task (speaker intenion judgments vs. acceptability ratings for direct responses) is not what made the 'asking whether' diagnostic stand out in Exps.1–4
- ► The **speech act** (question vs. assertion) affects how sensitive a diagnostic is to differences between contents
- ▶ Different from previous literature suggesting that different diagnostics show different empirical results: Mostly higlighted difference between QUD at-issueness, and assertion-based diagnostics, which are either argued not to be about at-issueness at all (Snider 2017b,a, 2018), or about a separate assertion-based notion of at-issueness (Koev 2018; Faller 2019; Korotkova 2020)

Questions: At-issue content partitions the contect; without speaker commitment (Groenendijk and Stokhof 1984; Ginzburg 1996; Roberts 1996; Tonhauser et al. 2018)

 $\llbracket \textit{Is Greg, who bought a car, envied by his neighbor?} \rrbracket =$

{Greg, who bought a car, is envied by his neighbor, Greg, who bought a car, is not envied by his neighbor}

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▶ Literal meaning of appositives / lexical semantics of clause-embedding verbs affects how much/likely the embedded content is interpreted as at issue

Big question here: which lexical properties can affect this how? Look to literature on presupposition triggering? (Abrusán 2011; Schlenker 2021; Anand and Korotkova 2024; Scontras and Tonhauser 2025)

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- Projection: When propositional content is not-at-issue, it projects, and we understand the speaker to be committed to it
- Assertions: Signal that speaker is committed to the at-issue content, and therefore at-issue content and not-at-issue content are harder to distinguish

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 - Big question here: which lexical properties can affect this how? Look to literature on presupposition triggering? (Abrusán 2011; Schlenker 2021; Anand and Korotkova 2024; Scontras and Tonhauser 2025)
- ► Therefore questions are good context to test at-issueness differences which may be conditioned by literal meaning
- Projection: When propositional content is not-at-issue, it projects, and we understand the speaker to be committed to it
- Assertions: Signal that speaker is committed to the at-issue content, and therefore at-issue content and not-at-issue content are harder to distinguish
- Testing at-issueness of contents in declarative assertions muddles the picture, making at-issue and not-at-issue content harder to distinguish; especially when the test itself invokes commitment (like those using assent/dissent)

Takeaways

► Experimental confirmation for claims that there are empirical differences between at-issueness diagnostics (Snider 2017b,a, 2018; Koev 2018; Faller 2019; Korotkova 2020)

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- ▶ But: difference between QUD at-issueness and assertion-based diagnostics does not seem to be the most important; **speech act** where the target content is embedded is more important
- ► Important question for future work: What the results might tell us about whether the diagnostics reflect a shared underlying notion of at-issueness

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