

Focus on what's (not) at issue: co-speech gestures, presuppositions, and supplements under Contrastive Focus

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Overview

- 1 Introduction
 - Original debate: status of co-speech gestures
 - Observation: at-issue uses of co-speech gestures under CF
 - Goals of the study
 - Anticipating the conclusions
- 2 Local interaction with CF
 - Indefinites and verbal predicates with non-at-issue content
 - Definites with non-at-issue content
- 3 Global reasoning on propositional CF alternatives
- 4 General conclusions

Original point of departure

- What is the status of the inferences triggered by co-speech gestures (informative, non-emblematic gestures co-occurring with some verbal expression), illustrated in (1)?

- (1) a. John brought me a beer^{LARGE} .
→ The beer that John brought me was large.

- b. John killed^{STAB}  himself.
→ John stabbed himself.

- Ebert & Ebert (2014) claim the inferences triggered by co-speech gestures are supplemental. Schlenker (2015, to appear), based on the projection facts, argues they are *cosuppositions*, i.e., assertion-dependent presuppositions of the form *if p, g*, where *p* is the verbal expression co-occurring with the gesture and *g* is the content of the gesture:

- (2) a. John didn't bring me a beer^{LARGE}.
→ If John was to bring me a beer, it would be large.
- b. *Context (for all "suicide" examples): We are playing a video game in which the characters routinely kill themselves. Sometimes characters can only kill themselves in one predetermined way, in other cases they have options.*
If John kills^{STAB} himself, I'll win.
→ If John kills himself, he will stab himself.

Observation: at-issue uses of co-speech gestures under CF

- Sometimes at-issue uses of co-speech gestures obtain under CF (Rob Pasternak, p.c., a.o.):

- (3) a. If John brings me a **beer**^{SMALL}, I'll finish it, but if he brings me a **beer**^{LARGE}, I'll have to share it with someone.
↗ If John brings me a beer, it will be small/large.
- b. If John **kills**^{SHOOT} himself, I'll win, but if he **kills**^{STAB} himself, I won't.
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- b. If John **kills**^{SHOOT} himself, I'll win, but if he **kills**^{STAB} himself, I won't.
 ↗ If John kills himself, he will shoot/stab himself.
- Further observation (often made for factive verbs, e.g., in examples with *know* vs. *think* — see, e.g., Simons et al. to appear): sometimes standard presuppositions don't project under CF either:
- (4) If John **stopped** smoking, I'll give you \$10, but if he never **used** to smoke, I won't.
 ↗ John used to smoke.

Goals of the study

- Look in a systematic way at the interaction of different types of non-at-issue content (co-speech gestures, presuppositions, supplements) with CF.
- See if there are any important differences among different types of non-at-issue content.
- Explain how non-at-issue content comes to have at-issue uses under CF.

(Tentative) generalizations and conclusions

- At-issue uses of non-at-issue content under CF can be caused “locally” (to make local Focus alternatives licit) or “globally” (as a result of further reasoning on propositional CF alternatives).

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- Local interaction with CF:
 - When at-issue content is not enough to assure the licitness of CF alternatives, non-at-issue content can be used to restrict it:
 - For supplements that means only restrictive readings are available when the NPs they modify aren't contrastive.
 - For presuppositions and co-speech gestures that effectively means local accommodation (e.g., Heim 1983; Schlenker 2009).

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 - For presuppositions and co-speech gestures that effectively means local accommodation (e.g., Heim 1983; Schlenker 2009).
 - Non-at-issue content can also be used to disambiguate between two contrasted referents, in which case its non-at-issue status is preserved, but some of those cases might still involve predicate restriction, whose effects will be masked by the presuppositions of the definite.

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- Differences between co-speech gestures and presuppositions vs. supplements:
 - prosodic, trivially attributable to their configurational differences;
 - in the level of acceptability of at-issue uses, possibly also attributable to configurational differences.

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Co-speech gestures

- Inferences triggered by co-speech gestures don't project when the verbal content of the local CF alternatives is identical, and the contrast is due to the gestural content only:

- (5) a. If John brings me a **beer**^{SMALL} and Bill brings me a **beer**^{LARGE}, I'll have enough booze for the night.
↗ If John brings me a beer, it will be small.
↗ If Bill brings me a beer, it will be large.
- b. If John **kills**^{SHOOT} himself and Bill **kills**^{STAB} himself, I'll win.
↗ If John kills himself, he'll shoot himself.
↗ If Bill kills himself, he'll stab himself.

- If the verbal content is contrastive, the inferences project:

- (6) a. If John brings me a **beer**^{LARGE} and Bill brings me a **cocktail**^{SMALL},
I'll have enough booze for the night.
→ If John brings me a beer, it will be large.
→ If Bill brings me a cocktail, it will be small.
- b. If John **kills**^{STAB} himself and Bill **wounds** himself, I'll win.
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- b. If John **kills**^{STAB} himself and Bill **wounds** himself, I'll win.
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- Also, the inferences project, if CF is placed elsewhere:

- (7) a. If John brings me a beer^{LARGE} **today** and Bill brings me a
beer^{SMALL} **tomorrow**, I'll be happy.
→ If John brings me a beer, it will be large.
→ If Bill brings me a beer, it will be small.
- b. If John kills^{SHOOT} himself **today** and Bill kills^{STAB} himself
tomorrow, I'll win.
→ If John kills himself, he'll shoot himself.
→ If Bill kills himself, he'll stab himself.

Relative clauses (RCs)

- When the contrasted NPs are identical, one can't have them bear prosodic CF markers and be modified by non-restrictive RCs:

(8) John brought me a beer/***beer** that/%which was **small** and Bill brought me a beer/***beer** that/%which was **large**.

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- When the contrasted NPs are contrastive, they can be modified by non-restrictive RCs while bearing CF markers:
- (9) John brought me a **beer**, which was **small**, and Bill brought me a **cocktail**, which was **large**.

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- (9) John brought me a **beer**, which was **small**, and Bill brought me a **cocktail**, which was **large**.
- When CF is placed elsewhere, two identical NPs can be modified by two non-restrictive RCs:
- (10) John brought me a beer, which was **small**, **yesterday**, and Bill brought me a beer, which was **large**, **today**.

Presuppositions

- Presuppositions don't project when the at-issue content of the two contrasted expressions is not contrastive (enough), and the presuppositional content of one alternative contrasts with the (sometimes strengthened) at-issue content of the other:

(11) If John **stopped** smoking and Bill never **used** to smoke, I'll give you \$10.

$\% \rightarrow$ John used to smoke.

(12) $\%$ If John **doesn't** smoke and Bill **stopped** smoking, I'll give you \$10.

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- (12) might be reminiscent of the *know* vs. *think* examples like (13), but I believe something else is going on in this case.

(13) If John **knows** that Mary is NYC, he should tell her mother, but if he only **thinks** that she is, he shouldn't.

\nrightarrow Mary is in NYC.

Presuppositions

- Presuppositions project if the at-issue content of the alternatives are contrastive enough (perhaps, with some lexical adjustment), as long as they don't contradict anything in the other alternatives globally:

- (14) If John **stopped** smoking and Bill is taking a **break** from smoking, I'll give you \$10.
- John used to smoke.
 - Bill used to smoke.

At-issueness of restrictors: negation-in-the-discourse test

- When co-speech gestures and presuppositions restrict predicates, their contribution can be directly negated in the discourse (modulo some parallelism considerations; judgements to be confirmed), just like with restrictive RCs:

- (15) a. A: John brought me a **beer**^{SMALL}, and Bill brought me a **beer**^{LARGE}.
 B: No, John also brought you ?a large beer/a beer this^{LARGE} large.
- b. A: John **killed**^{SHOOT} himself, and Bill **killed**^{STAB} himself.
 B: No, John also ?stabbed himself/killed himself like this^{STAB}.
- (16) a. A: John **doesn't** smoke, and Bill **stopped** smoking.
 B: No, Bill also ??didn't use to smoke/doesn't smoke.
- b. A: John **stopped** smoking, and Bill never **used** to smoke.
 B: No, John also never used to smoke.
- (17) A: John brought me a beer that was **small**, and Bill brought me a beer that was **large**.
 B: No, John also brought you a beer that was large.

Sketching a story for predicates

- When the at-issue content of two CF-ed predicates is not enough to assure they are licit alternatives to one another (see Katzir 2014 and the references therein), non-at-issue content can be used to restrict the at-issue content.

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 - For RCs that means only restrictive uses are available when NPs they modify are not contrastive.
 - For presuppositions and inferences triggered by co-speech gestures that effectively means local accommodation, since restriction is done simply by conjoining the restrictor with the predicate, e.g.:
 - *beer*^{LARGE}: *beer and (beer \Rightarrow large)*, equivalent to *beer and large*;
 - *kill*^{STAB}: *kill and (kill \Rightarrow stab)*, equivalent to *kill and stab*;
 - *stopped*: *doesn't and used to*.

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 - *stopped*: *doesn't and used to*.
- This is not immediately enough for the *doesn't* vs. *stopped* case. There I assume that *doesn't* is exhausted with respect to *stopped*: *doesn't and not (doesn't and used to)*, i.e., *doesn't and didn't use to*, which now is a good alternative to *doesn't and used to*.

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Observation: non-at-issue content distinguishing referents

- Non-at-issue content can be used to distinguish between two referents that are otherwise indistinguishable, seemingly without losing its non-at-issue status. In (18)–(21) the relevant inferences project, none of them is good under the ‘two referents’ reading.

(18) If you invite **John**^{TALL}, I'll be happy, but if you invite



John^{SHORT}, I won't.

→ The first John is tall, the second John is short.

(19) If you invite John/***John** the **linguist**, I'll be happy, but if you invite John/***John** the **philosopher** I won't.

→ The first John is a linguist, the second John is a philosopher.

- (20) %If you invite John/***John** who's a **linguist**, I'll be happy, but if you invite John/***John** who's a **philosopher**, I won't.
→ The first John is a linguist, the second John is a philosopher.
- (21) John is considering inviting Bill or Mary. If he invites **him**, I'll be happy, but if he invites **her**, I won't.
→ The referent of *him* is male, the referent of *her* is female.

(20) %If you invite John/***John** who's a **linguist**, I'll be happy, but if you invite John/***John** who's a **philosopher**, I won't.

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→ The referent of *him* is male, the referent of *her* is female.

- Also, those inferences can't be directly negated in the discourse, e.g.:

(22) A: I want to invite **John**^{TALL}, and Mary wants to invite **John**^{SHORT}.

B: #No, the first John isn't tall/this^{TALL} tall.

(23) A: I want to invite John the **linguist**, and Mary wants to invite John the **philosopher**.

B: #No, the first John isn't a philosopher.

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- Disambiguation rather than restriction: non-at-issue content can be used to disambiguate between otherwise indistinguishable referents; unlike restriction, disambiguation doesn't change the at-issueness status of the disambiguating material.

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 - We could assume the same story for proper nouns, saying they come with indices, and $John_i$ and $John_j$ are licit CF alternatives.

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 - We could assume the same story for proper nouns, saying they come with indices, and $John_i$ and $John_j$ are licit CF alternatives.
- An alternative restriction-based approach to proper names:
 - Assume they are decomposable into a determiner and its restriction (along the lines of Matushansky 2008).
 - At the predicate level $John$ and $John$ are identical, and the non-at-issue content is forced to restrict them, e.g., $\lambda x.\mathbf{john}(x) \wedge \mathbf{tall}(x)$.
 - At the DP level the existence + uniqueness presupposition is triggered and “masks” the at-issueness of the restrictor.

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Presuppositions contradicting an alternative

- Judgements for (4), repeated below, are more robust than for (11):

(24) If John **stopped** smoking, I'll give you \$10, but if he never **used** to smoke, I won't.

↗ John used to smoke.

Presuppositions contradicting an alternative

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(24) If John **stopped** smoking, I'll give you \$10, but if he never **used** to smoke, I won't.

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- Rough intuition: the presupposition of *John stopped smoking* contradicts the assertive content of *John never used to smoke*. If our common ground entails that John used to smoke, the second alternative is false, but then it is pragmatically odd to entertain it in an antecedent of a conditional.

- When the presuppositions of the propositional CF alternatives contradict each other, neither one projects:

(25) If John **stopped** smoking, I'll give you \$10, but if he **started** smoking, I won't.

\nrightarrow John used to smoke/not smoke.

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(25) If John **stopped** smoking, I'll give you \$10, but if he **started** smoking, I won't.

↗ John used to smoke/not smoke.

- Since the at-issue content of *stop* and *start* is contrastive enough, the two presuppositions project when they are not contradictory:

(26) If John **stopped** smoking and Bill **started** smoking, I'll give you \$10.

→ John used to smoke.

→ Bill used to not smoke.

- More cases of projection under CF:

- (27) a. If John **stopped** smoking, I'll give you \$10, but if he's just taking a **break** from smoking, I won't.
 b. Although John didn't **stop** smoking, he began to **hate** smoking.
 → John used to smoke.
- (28) a. If John **started** smoking, I'll give you \$10, but if he just **tried** smoking, I won't.
 b. Although John didn't **start** smoking, he began to **tolerate** smoking.
 → John used to not smoke.

- The case of contradictory presuppositions might be even more straight-forward: no common ground can entail a contradiction. But unless further pragmatic reasoning is assumed, it should suffice to accommodate just one of the presuppositions.
- **Alternative assertability principle:** all propositional Focus alternatives should be in principle assertable with respect to the same common ground.
- Consequence: if a presupposition of one alternative hinders assertability of another alternative, the offending presupposition should be accommodated. E.g., *John never used to smoke* isn't assertable wrt a common ground that entails that John used to smoke, so the presupposition triggered by *stopped* in (24) can't project.

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 - That can also be due to the interaction between configuration and triviality, along the lines of Schlenker's typology of non-at-issue content.
- So, are co-speech gestures more like presuppositions or more like supplements? Does the question even make sense anymore?

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