Common Ground updates do not depend on how information is conveyed: a recognition memory study

Eleanor Miller¹, Mikhail Kissine²
LaDisco, Université Libre de Bruxelles, eleanor.miller@ulb.be ¹ LaDisco, Université Libre de Bruxelles, mikhail.kissine@ulb.be ²

Keywords: Presupposition accommodation, common ground, assertion, implicature, conventional implicature

implicatures conventional implicatures Assertions. and typically convev new information, whereas presuppositions reference given content; but any content can be syntactically asserted, implicated or presupposed. It is unclear whether asserting versus presupposing new content how content is integrated within hearer representations of the common ground (DiPaola & Domaneschi. 2017. Schwarz. 2017). ground In three experiments. we compare common updates usina recognition memory for targets presented in a short story, in one of five forms: asserted (There were clothes on the conventionally implicated (The back seat, which had clothes in it), implicated (It's a bad idea to stuff your back seat with clothes), strongly presupposed (The bundle of clothes in the back seat) or weakly presupposed (She wouldn't stuff her back seat with clothes We find similar recognition rates across forms. This result is surprising given classic models of presupposition and of the common ground (Stalnaker. 2002). Furthermore, we include a propositional control form conveying content with similar wording Finally, recognition is not due to lexical priming. we also to ensure that whether similar presupposed checked recognition for asserted, implicated or form could be due to participants remembering the verbatim form of the presupposed at accommodating them the recognition sentences and test, as suggested by fuzzy-trace theory (Brainerd & Reyna. 1998). However, Experiment 3 showed verbatim recognition to low and similar across forms. Our results therefore provide strong indication processing differences between assertion, presupposition and the impact on the common ground of these different information packaging forms is similar.

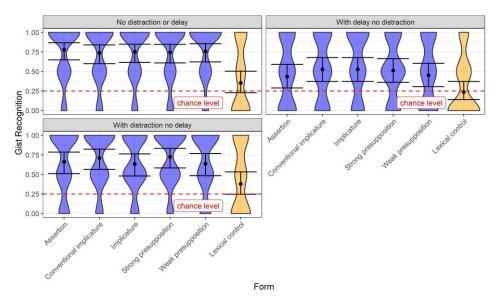


Fig. 1: Mean gist recognition rates by Form, with error bars representing 95% confidence intervals and violin plots representing dispersion.

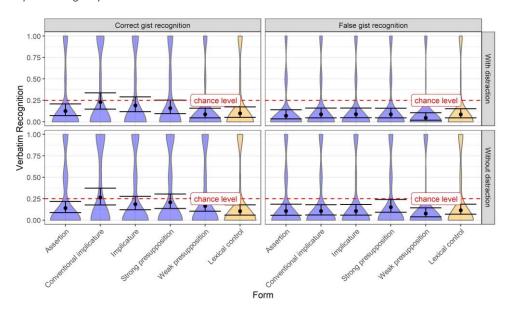


Fig. 2: Mean verbatim recognition rates by Form, with error bars representing 95% confidence intervals and violin plots representing dispersion.

References

Brainerd, Charles & Reyna, Valerie. 1998. Fuzzy-trace theory and children's false memories. In *Journal of Experimental Child Psychology* (Vol. 71, Issue 2, pp. 81–129). Elsevier Science. https://doi.org/10.1006/jecp.1998.2464.

Di Paola, Simona & Domaneschi, Filippo. 2017. *The cost of context repair:*Presupposition accomodation. CEUR Workshop Proceedings, 1845, 36–47.

Heim, Irene. 2008. On the Projection Problem for Presuppositions. *Formal Semantics: The Essential Readings*, 249–260. https://doi.org/10.1002/9780470758335.ch10

Schwarz, Florian. 2016. Experimental Work in Presupposition and Presupposition Projection. *Annual Review of Linguistics*, 2(May), 273–292. https://doi.org/10.1146/annurev-linguistics-011415-040809

Stalnaker, Robert. 2002. *Common ground*. Linguistics and Philosophy, 25(5–6), 701–721. https://doi.org/10.1023/a:1020867916902.