

- BLANE WORLEY, *Non-uniform topic assignment*.

Philosophy, University of California, Davis, One Shields Avenue, Davis, CA 95616, USA.

*E-mail:* bdworley@ucdavis.edu.

Parallel investigations into topic have developed a growing number of fine-grained sequences. The core intuition behind these sequences is that a number of logical connectives are plausibly transformative, in the sense that the topics of sentences in which they appear are not only determined by the topics of their constituent subsentences but also by the topic transforming role of the logical connective. In this paper, I give two semantics for topic preservation. First, I give a thoroughgoing opaque treatment of topic, in which topic assignments are affected by all logical connectives in sight. I then contrast that semantics with a fully transparent one where the assignments are two-place and non-uniform, in the sense that the assignment  $a$  of an atom  $p$  is dependent on where  $p$  occurs within a given formula. There are then two seemingly disjoint semantics: one which straightforwardly treats topics in the algebras themselves and another which offloads the transformative nature of topic operators from the algebras and into the assignments. I will demonstrate the surprising result that these semantics are sound with respect to a major fragment of the relevant logic  $\mathbf{B}$ , and that they are not semantics for a nearby strengthening of  $\mathbf{B}$ , namely  $\mathbf{DW}$ . I will then show that the first topic-opaque semantics is complete with respect to the same fragment of  $\mathbf{B}$ , noting that these are essentially  $\mathbf{B}$ -algebras turned on their head. Additionally, I show that, given some adjustment and extra structure, the topic-transparent semantics with non-uniform assignments are complete with respect to a stronger logic that has a restricted hypothetical syllogism. Finally, I outline a formal method to accommodate disjunction introduction in the current topic preservation framework.

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