

From Naturalizing Phenomenology to Formalizing Cognitive Linguistics (I): Cognitive Transform Grammar

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April 15, 2020

Abstract

In this paper I try to identify certain paleostructures in language which transcend (or are somehow more fundamental than) the metatheoretical paradigm-opposition between faith in language being a computable, logico-mathematical system, or, conversely, a faculty bound up with overall human cognition, emotion, and embodiment such that nonsentient computers can never truly understand language. I will, in fact, analyze some examples suggesting a context-sensitivity and a level of epistemic engagement which I feel argues for a register of linguistic nuance that is probably computationally intractable. However, I also claim that *some* facets of language are more logically straightforward, and *some* sentences (or other linguistic artifacts) evince that logical register primarily or exclusively. Juxtaposing these cases, I claim that language is not *intrinsically* either tractable or non-tractable to computers or to any other system whose nature is essentially to carry out logicomathematical operations. Instead, tractability in this sense is a parameter which is more or less evident in different artifacts. A comprehensive theory must therefore address samples of language which are indeed strongly tractable — so that the machinery of computational linguistics becomes explanatorily relevant — *and also* examples which (via some interpretive or contextual complexity) are effectively intractable. Theories which make sense of the latter cases may be important to linguistic analysis even if they are not conducive to computational treatment or formulation. In sum, different theories, with different levels of formalizability and of adherence to reductionist logico-mathematical paradigms, are appropriate for different acts of language. An overall philosophy of language, then, rather than judging the merits or demerits of logical, mathematical, or computational formalization as a criteria of theoretical rigor, should instead seek to integrate diverse analyses which paradigmatically differ on this issue into a aggregated, multi-paradigm theoretical framework.

On connaît la célèbre affirmation de Claude Lévi-Strauss: les sciences humaines seront des sciences naturelles ou ne seront pas. The nature of any entity, I propose, divides into three aspects or facets, which we may call its form, appearance, and substance.