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The categorical role of structurally iconic signs

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Abstract

Goldin-Meadow and Brentari argue that for sign language users gesture, in contrast to linguistic sign, is iconic, highly variable, and similar to spoken language co-speech gesture. We discuss two examples (telicity and absolute gradable adjectives) that challenge the use of these criteria for distinguishing sign from gesture.

In their target article, Goldin-Meadow and Brentari present a subtle view of the distinction between gesture and “categorical” properties of sign language. In both spoken and sign language, illustrative gesture and linguistic material interact within a single unified system that combines meanings in real time. For example, if one were to say the English sentence “a drunk man is walking around” while gesturing with one’s hand in a swervy motion, a listener would need to integrate the meaning of the sentence with that of the gesture to correctly interpret the utterance. On the other hand, language and gesture generate meaning in distinct ways. Language is said to use categorical elements that can combine into higher-order structures (e.g. using grammatical rules), while gesture is said to express meaning holistically.

Goldin-Meadow and Brentari argue that the same two expressive categories exist in sign language as in spoken language. However, since many gestures are implemented in the manual modality, it can be difficult to distinguish gesture from the “categorical” elements of sign language. Accordingly, Goldin-Meadow and Brentari provide three heuristics for distinguishing between these. First, gesture tends to be highly variable within a linguistic community while linguistic signs tend to be uniform. Second, gesture tends to be iconic and imagistic whereas sign does not. Finally, gesture in signers tends to be accessible to non-signers, and is often expressed via co-speech gesture in spoken language.

While these criteria can be useful for some examples, here we want to focus on a set of “problem” cases that do not neatly fit within the heuristics laid out by Goldin-Meadow and Brentari. In each example, a representation used by signers is highly

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uniform within signing communities while nevertheless being iconic/imagistic in systematic ways. We argue that careful consideration of these cases requires altering the Goldin-Meadow and Brentari theoretical model and also suggests that cleaner criteria should be adopted for distinguishing between gesture and sign.

First, we consider the case of telicity. Wilbur (2003, 2008) argues that the phonetic form of verbs in several sign languages systematically reflects the telicity of the predicate: telic verbs (like *decide*, whose meaning has an intrinsic culmination point) are marked with rapid deceleration to an abrupt stop; atelic verbs (like *ponder*, with no intrinsic culmination) are not. Strickland et al. (2015) confirm this generalization across several sign languages (including Italian Sign Language, LIS), and show that even hearing people with no exposure to sign language are able to infer the telicity of a predicate based on the phonetic form of a verb. Following Goldin-Meadow and Brentari's criteria, the accessibility of this correspondence to non-signers likely qualifies it as a gestural component of sign languages.

On the other hand, the phonetic marking of telicity interacts with fully grammaticalized signs in LIS, in a manner invariant from speaker to speaker within a linguistic community. Specifically, in LIS, the phonetic marking of telicity is in complementary distribution with the perfective aspectual marker *DONE*. Signs like *LEAVE*, *DECIDE* or *SELL* may express perfectivity either by the presence of a clear boundary or by using the lexical sign *DONE*. In the latter case, telic predicates do not end in an abrupt stop.

Next, we consider absolute gradable adjectives like "full." What defines absolute adjectives is that the adjectival scale includes a maximum degree: when something is

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completely full, it cannot be any more full. This contrasts with relative adjectives like “rich” which have no maximum degree.

In LIS, many absolute adjectives include an iconic component that indicates that the maximum degree of the scale has been reached. Unlike their spoken language counterparts (and other, non-iconic adjectives in LIS), these signs do not allow for imprecise readings (Aristodemo and Geraci 2015). For instance, the LIS equivalent of the English sentence *this glass of wine is full but you can still pour a bit more* is not grammatical because the sign FULL iconically conveys the meaning that the glass is maximally full. The same effect can be obtained in spoken Italian by accompanying the adjective with a co-speech gesture (an open hand waving on the horizontal plane). This fact shows that an iconic component that is an obligatory part of a sign and an independent co-speech gesture in spoken language contribute similar core meanings to utterances.

In the examples discussed above (i.e. telicity and absolute gradable adjectives), there is an iconic/imagistic representation that is comprehensible to non-signers (as in the telicity example) and can optionally be employed during co-speech gesture (as in the absolute scale example). On the Goldin-Meadow and Brentari framework, one might therefore conclude that they are a part of the gestural system.

Nevertheless these representations are not variable across members within signing communities, and seem to play a key role in determining grammaticality. On these grounds, one might conclude that they are part of the “categorical” signing system.

This leaves open two possible theoretical positions, either of which would

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represent a substantial alteration of the Goldin-Meadow and Brentari framework. The first possibility is that we treat the markers of telicity and absolute scale in LIS as gesture. On this view gesture would be capable of interacting with the grammatical system of sign languages in highly intricate ways. In this case, we must accept that some types of gesture do not have a tendency to be variable across speakers within a language, that gesture is not necessarily holistic, and that gesture can have virtually identical functions to well known grammatical markers in spoken languages (such as event-finality in Slavic languages).

The second possibility is that we treat the markers of telicity and iconic absolute adjectives in LIS as being categorical elements of the signing system. On this view, one would need to accept that some properties of sign are highly iconic, and that overlap with co-speech gestures from spoken language should not be taken as a criterion for distinguishing sign from gesture.

For the moment, both views are plausible. Subsequent research and refinement of analytic techniques would be necessary to distinguish between them.

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