Establishing and Extending Real Space Blends
The Shared Use of Gesture Space in Multimodal Narratives

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Pink: and the friend that I’m linked with gets put over there
Black: the friend
Outline

Background
Research questions
Corpus info.
Sharing spaces
  Three examples
  How Black shares space
Summary
Other Participants in the corpus
Conclusions
Background

• Language use is a kind of joint action (H. Clark, 1996; Garrod and Pickering, 2009)

• Physical coordination, such as gesture and eye-gaze, play crucial roles in shaping mental representations and communicating the contents of those representations (R. Clark, 2012)

  • Mental Spaces (Fauconnier, 1994) and Real Space Blends (Liddell, 2003; Dudis, 2004)

• Shared symbolic patterns enable the alignment, joint construction and navigation of conceptual models and actions (Fusaroli & Tylén, 2012; Galantucci et al, 2012)
Background

- Different aspects of communication are kept separate by means of gesture space and body orientation (Stec & Sweetser 2012, 2013)

- Gesturing style is affected by the status of information
  - New information vs. common ground can affect viewpoint (Wilkins & Holler, 2011)
  - Narrative function can affect gesture shape and location (Enfield et al., 2007)
  - Type of quote (reported speech vs. fictive interaction) can affect role shift style (Stec, 2012)

- People are sensitive to the locations to which referents are assigned, and expect those locations to be stable (Gunter, 2008 and Weinbrenner & Gunter, 2010)
Research Questions

- Are multimodal narratives co-constructed? If so, how?
- Is the use of shared/co-constructed gesture space different than individual space?
  - Which elements are stable?
  - Which elements are shared by participants?
Corpus

- Part of a larger American storytelling corpus, in which pairs of friends were asked to tell autobiographical stories to each other; semi-spontaneous

- Around 30 minutes per pair; 10-15 minutes per speaker

- Participants: Pink (25) and Black (26) have known each other for a few years

- Focus: Black’s contributions to Pink’s stories
Method

- 15 clips from Pink’s storytelling were identified as instances of shared/co-constructed space, and were further annotated for the following:

  - what is shared (gesture shape, real space blends, “sentiment”)
  - what is co-constructed (real space blends, different aspects of the narrative)
  - possible functions of Black’s contributions (continuation vs. commentary)
Individual Spaces

- Both Pink and Black consistently maintain separate communicative spaces (real space blends, cf. Liddell 2003) while telling stories.

- These spaces are used to organize the location of characters, objects, physical spaces (e.g. a house or concert hall), etc. during the course of the narrative (cf. Stec, 2012), and also help keep track of different kinds of communication, e.g. the narrative itself vs. asides to their addressee (cf. Stec & Sweetser, 2012).
Shared Spaces

• Spatial overlap, such as when both Pink and Black use the center space between them to discuss the here-and-now (unsurprising)

• Spatial sharing, which relies on the stability of real space blends for both participants, especially with regards to landmarks/characters which have been associated with particular locations
Shared Structure

- Black shares Pink’s narrative in 3 ways:
  - Gesture shape
  - “Sentiment”
  - Real Space blends
Pink: no it was just
Black: what kind of voices can I hear now?
Pink: no it was just one not two
Black: aw what’s all this then
Pink: which I love now but at the time was
Black: whatever
play the music
Pink: mm good
Shared Real Space Blends

Pink: and the friend that I’m linked with gets put over there
Black: the friend
In her own stories, Black has a strong preference for a left orientation for role shift, and uses other spaces to a limited extent.

But when co-constructing Pink’s narrative, she uses her usual role shift space (left) or the neutral space between herself and Pink equally often.
Shared Space: Function & Space

• Black either continues or comments on Pink’s narrative

• Black’s spatial orientation preference seems to depend on the function of her contribution

Function of Black’s contributions

<table>
<thead>
<tr>
<th>Function</th>
<th>Commentary</th>
<th>Continuation</th>
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<tbody>
<tr>
<td>Commentary</td>
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Black’s orientation wrt function

<table>
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<tr>
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<tr>
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Summary

• Black’s collaborative listening style extends Pink’s narrative via novel and elaborate use of Pink’s real space blends

• Black’s co-construction often only manifest multi-modally; speech alone often doesn’t suggest that anything “relevant” is taking place

• The use of gestural space varies with regard to the function of the contribution; commentaries are presented directly to Pink on the speaker-addressee line while continuations happen in narrative space

• Real space blends are present and stable for both participants, especially when they involve “focused” entities, such as Pink’s friend

• Real space blends (and therefore, real space referents) may be shared; form, orientation and location follow, per the blend
Collaborative Spaces

• Four other pairs in the corpus also demonstrate this kind of collaborative co-construction of narrative and physical space, but to a much lesser extent.

• The listener’s contributions have similar functions:
  • Extend the main storyteller’s real space blends
  • Continue or comment on the main storyteller’s narrative
Discussion

• Narratives may be co-constructed multimodally, in which case participants make use of the same real space blends

• Real space blends, and the spatial organization of different landmarks and referents they entail, play both an organizational and creative role in discourse

• They are mutually accessible to the speaker and addressee, as well as stable across longer stretches of discourse (cf. Weinbrenner & Gunter, 2010)

• The use of physical space reflects the structure, function and kind of discourse, and is continuously updated and extended by the participants.
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References


