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Multimodal quotation: Role shift practices in spoken narratives

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Abstract

This study investigates how speakers of American English use multimodal articulation when quoting characters in personal narratives. We use the concept of role shift, adapted from signed languages, where it refers to a device used to represent one or more characters with one or more bodily articulators, to describe multimodal role shift practices. In a regression analysis, four bodily articulators were found to predict the impression of a role shift: character intonation, character facial expressions, character viewpoint gestures, and changes in body orientation; gaze was not a significant predictor. Most of the 704 quotes in our data are accompanied by activation of two or three articulators (55.3%) and very few (2.6%) occur without any of the articulators we have annotated. The extent of multimodal articulation depends on the type of quoted utterance: quotations of actual, witnessed speech events tend to garner fewer articulators than constructed (’fictive interaction’) quotations. These findings demonstrate that speakers, like signers, use a range of bodily articulators when they take on another’s role in quotation and thus underpin the importance of investigating the systematic use of the visual modality in quotation and, more generally, in ordinary interaction.

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Keywords: Co-speech gesture; Viewpoint; Quotation; Direct speech; Fictive interaction; Multimodality

1. Introduction

For a long time, the investigation of multimodal communication focussed almost exclusively on manual gestures. Although this has changed dramatically in the past couple of decades, the use and interplay of bodily resources is still not well understood. Particularly active and varied use of multimodal articulation has been attested for quotations (e.g., Clark and Gerrig, 1990; Earis and Cormier, 2013; Blackwell et al., 2015), which therefore provide a fruitful testing ground for this research. This study aims to contribute qualitative and quantitative empirical evidence for the ways in which speakers of American English use their body to represent or enact quoted characters in personal narratives. To reach beyond the linguistic and visual description of the quotations, we draw a parallel to role shift, a representational device used in many signed languages for representing the utterances, thoughts, feelings and/or actions of one or more referents with one or more bodily articulators, including the head; face; gaze; hands; arms and torso (Cormier et al., 2015:1).

To illustrate the extent to which multiple bodily articulators co-occur, consider the following excerpt, Fig. 1 and Transcript 1, taken from a narrative about the first time Pink (on the left in the figure) went to a concert with her friends. At the venue, Pink took a nap during the opening acts (line 1) and describes how her friends woke her up (lines 2–4) so that
she can go to the main act. Throughout this paper, quoted utterances are formatted as follows: Speaker_Name: [quoted. speaker] quote, and image numbers corresponds to the line number(s) in the transcript. In this example Pink, a native American English speaker, quotes her friends (lines 3–4) and then her past self (line 5).

Transcript 1: Concert

1 Pink: and I like (0.2) took a nap to it upstairs
2 and then my friends like the next thing I know
3 [friends] they’re like hey hey we’re going to go downstairs now
4 the show’s going to start (h)
5 [past.self]and I’m like whoa

Linguistically, quotations are indicated by pronoun choice, verb choice, marked changes in syntax, etc. (see Parrill, 2012, for a review) – but they may also be co-articulated with certain multimodal actions (see, e.g. Park, 2009, or Stec et al., 2015). To illustrate, in the example given above, the speaker first enacts her friends (lines 3–4 of Transcript 1 and Fig. 1, Image 3) by orienting her body to her left and using her left hand to poke at empty space, showing Black, Pink’s interlocutor, how Pink’s friends woke her up from a nap before the main act began at the concert. Co-timed with Pink’s manual gesture is a facial portrayal which makes use of wide, alert eyes to show how earnest her friends were. Following this, Pink produces her past self’s response (line 5 of Transcript 1 and Fig. 1, Image 5) which is co-timed with the following multimodal actions: Pink re-orient her head to the upper right while simultaneously showing her surprise at being woken up. Both utterances are accompanied by special intonation which is evocative of Pink’s friends and her past self.

This excerpt exemplifies the complex interaction of a variety of verbal and visual means with which speakers mimetically (Donald, 2001; Redeker, 1991) or iconically (Vigliocco et al., 2014) demonstrate selected aspects of the quoted utterances. Pink quotes a past interaction in such a way as to demonstrate what the speakers sounded like, what emotions they felt, and what their physical interaction looked like. In this way, we see Pink fluidly use a range of complementary, multimodal means to enact quoted characters using different parts of her own body.

1.1. Direct quotation

Direct quotations are pervasive in narratives. By shifting the viewpoint to a character, they create involvement (Tannen, 1989) by dramatizing interaction (Labov, 1972; Redeker, 1991), add liveliness (Groenewold et al., 2014; Sanders and Redeker, 1996), and recruit neural structures in the listener which indicate more simulation of the quoted speaker (Yao et al., 2011, 2012). Direct quotations are usually not literal renditions of the quoted utterances, but demonstrate (Clark and Gerrig, 1990) or depict (Clark, 2016) selected aspects of them. They do not even have to be enactments (Goodwin, 1990) or reenactments (Sidnell, 2006) of an actual previous utterance or situation, but can be made up by the quoting speaker to illustrate, e.g., a character’s reaction or a discussant’s stance in a real or imagined debate. Such quotations have been called constructed dialogues (Tannen, 1989), constructed quotations (Redeker, 1991), or fictive interaction (Pascual, 2014), and are typically used in a functionally distinct way, i.e. to voice a character’s thoughts, an entity which cannot speak, or to refer to a future, pretend or counterfactual scenario (see Pascual, 2014). We will use the term fictive interaction because of its widespread use, and will contrast it with direct quotation of actually witnessed speech events.

Most research on the communicative functions of multimodal utterances in speaking communities has focused exclusively on contributions made by the hands (e.g., Kendon, 2004; McNeill, 1992, 2005), especially on the difference between character and observer viewpoint gestures, and the different situations in which they occur (e.g., Brown, 2008; Özyürek, 2002; Parrill, 2010). But as Transcript 1 shows, speakers also frequently use other bodily resources. For
example, the direction of speaker gaze can manage various aspects of discourse (Sweetser and Stec, 2016) and interaction (Rossano, 2012). A change in gaze direction can also be used to indicate that a speaker is about to demonstrate or reenact something (Sidnell, 2006). Facial portrayals can be used to reflect the emotions of a character rather than the speaker’s real time experience (Bavelas and Chovil, 1997; Chovil, 1991); and even the lips (Enfield, 2001) or nose (Cooperrider and Nuñez, 2012) can be used to facilitate deictic reference, such as pointing. Looking at linguistic contexts, Stec et al. (2015) found that the use of bodily articulators varies depending on whether a speaker is quoting a single utterance, a monologue or a dialogue. Thus, we see that, depending on context, a speaker’s entire body may be used in communicatively important ways. Depending on the context, even a raised brow or a quick shake of the head can be used to iconically represent what another person said or did, and by extension indicate a shift in perspective. This capacity holds for other articulators as well. Perhaps because of this, and perhaps because a person’s body is the best iconic representation for another person’s body (Sweetser, 2012), speakers are found to convey differences in viewpoint multimodally by means of multiple articulators.

1.2. Role shift in sign languages

How these articulators co-occur within and across modalities, and the contexts under which they do so, remains an open question. One indication of the possibilities of co-occurrence comes from various signed languages, whose users are found to adopt character viewpoint via a process – whether considered gestural (Janzen, 2012) or grammatical (Quinto-Pozos, 2007) – which has been called referential shift or role shift (Engberg-Pedersen, 1993), shifting reference (Loew, 1984), constructed action or constructed dialogue (Metzger, 1995), perspective shift (Lillo-Martin, 1995), rotational shift (Janzen, 2012) and surrogate blends (Liddell, 2003). These terms denote both a function (a shift from narrator to character perspective) and a set of practices, or behaviours, which achieve that function. Henceforth, we will refer to the function as role shift, as this term is the most recognizable, and the set of practices which evoke it as role shift practices.

Prior research has shown that role shift practices are generally characterized by three features which are more or less co-timed: a shift of signer gaze away from the addressee, a re-orientation of the signer’s body, and the use of character viewpointed signing, i.e. the use of handlers rather than classifiers (see Cormier et al., 2012 for more about the relationship between iconic sign and co-speech gesture strategies, and Cormier et al., 2015, for more about the definitions and use of constructed action within sign language linguistics). As this body of research demonstrates, although one articulator may be used to signal a role shift in sign, it is more common for multiple articulators to be used simultaneously. In fact, the three-features approach described above is the way role shift is typically taught to learners of signed languages (e.g., Koch, 2014; Lapiak, 2015).

As an example, consider the following excerpt from a story told in American Sign Language (ASL) and which is in the public domain on YouTube. The story is about a father who buys an ice cream cone for his child. The child is excited about the ice cream, and starts to lick so intensely that it falls to the ground, rendering it inedible. The story ends with the child crying. We discuss two examples of role shift practices here, shown in Fig. 2, Images 1 and 2. In Image 1, the signer uses role shift to describe the child receiving the ice cream cone from their father. This is shown in three ways: the signer’s body is oriented to the right, his face is looking up, and his hands grasp the imagined ice cream cone. In Image 2, the

Fig. 2. Two examples of role shift from ASL Ice Cream Story.

1 The video can be accessed here: https://www.youtube.com/watch?v=zVuxQwKFiAw (ASL Ice Cream Story) and was embellished by a learner of ASL here: https://www.youtube.com/watch?v=kDmDQXi9f8k (ASL Role Shifting Ice Cream Story). Although told by a learner of ASL, we reference it because the shifts between characters are exaggerated and clear, making it relatively accessible for non-signers.

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signer uses role shift to show the child being upset by the fallen ice cream. This is shown in two ways: the signer’s hands are held up, grasping the imagined ice cream cone, and his face shows extreme distress at the loss of the ice cream, which he has just shown falling to the ground.

1.3. Comparisons of narrative strategies used by speakers and signers

Comparisons of the co-sign and co-speech strategies used to convey viewpoint shifts when telling narratives demonstrate systematically different choices made by signers and by speakers. For example, Rayman (1999) asked signers of American Sign Language (ASL) and American English speakers to re-tell the fable *The Tortoise and the Hare* and compared their narrative production strategies, focusing in particular on strategies used by an ASL user and an English speaker who both had extensive theatre training. Rayman found that the ASL narrative was longer overall, and was composed of more direct action elements — that is, role-shift-like elements which showed what a character did, thought or said — than the English narrative, which was told from the narrator’s perspective with relatively few multimodal articulations. A similar study (Marentette et al., 2004) asked four groups of participants (native deaf signers, late deaf signers, hearing signers from deaf families and monolingual hearing speakers) to watch Pink Panther cartoons and re-tell the narratives to a naive listener. The deaf signers signed, and the hearing speakers — including the bimodal bilinguals — spoke. Similar to Rayman’s study, they found that the signed narratives were longer than the spoken narratives and used more ‘direct action elements’ (i.e., conventionalized role shift practices for signers and iconic gestures for speakers), with native signers producing the longest narratives and the most direct action elements. More recently, Earis and Cormier (2013) compared narrative production strategies used by BSL signers and experienced British English storytellers to retell “The Tortoise and the Hare”, and found both similarities and differences. For example, English speakers in their study produced quite a few facial portrayals which were evocative of characters in the narrative, and used iconic and deictic manual gestures in a similar way to the signers. However, like previous studies, Earis and Cormier found that the signed narratives were typically longer than the spoken narratives, and that BSL signers preferred character perspective with direct action elements to narrator perspective, which was preferred by English speakers.

These studies suggest that narrative production is affected by production modality and point to differences in the iconic representation of characters — both in terms of the number of articulators which are used, and the extent to which those representations occur. However, in our view, certain methodological limitations should be addressed. For example, in the above-cited studies, narratives were told as monologues. In both Rayman’s and Earis and Cormier’s studies, participants were selected for their storytelling abilities, and were provided written versions of well-known fables in English. They were given one week to prepare and rehearse telling the narratives in their own way, and were then recorded telling narratives to a video camera. This is potentially problematic as structured, rehearsed performance may make use of expressive capabilities in ways that differ from those used in (semi-)spontaneous speech. Moreover, the use of monologic recording is potentially problematic as, for speaking populations, monologues have been shown to reduce the extent to which demonstrations in general, and co-speech gestures in particular, are used while dialogues have been shown to increase the rates of both the use of iconic gestures and facial portrayals (Bavelas et al., 2014).

Additionally, the comparative studies focused on the structure and presentation of narrative events. A number of studies have demonstrated that co-speech gesture is sensitive to event structure, whereby certain events are simply more likely to be accompanied by gesture, or by a certain type of gesture, depending on event-internal semantics (e.g., Kita and Özyürek, 2003; Parrill, 2010; Quinto-Pozos and Parrill, 2015). It might therefore be the case that the events in the elicited stories simply did not lend themselves to character viewpoint. Or, it might be the case that there were not enough opportunities to do so — focusing on quotation rather than overall narrative structure might have better showcased speakers’ abilities to adopt character perspective and therefore enabled a better comparison between the viewpoint-taking strategies used by speakers and signers. Various studies have shown that quotations often contain multiple articulators across modalities (Park, 2009; Sidnell, 2006; Stec et al., 2015; Thompson and Suzuki, 2014, Blackwell et al., 2015). While this usage has not been explicitly compared with conventionalized role shift practices as used by signers, it does indicate that speakers are meaningfully using their bodies — and not only their hands — to indicate that viewpoint has changed.

To summarize: While previous work has identified important differences in the way speakers and signers use multiple modalities in narratives, the comparisons made by previous studies might give a biased view of English speakers’ behaviour. Looking at the multimodal quotations of ordinary speakers might give a more representative picture of the multimodal actions which are used to signal viewpoint shifts, and how similar (or not) those actions might be to role shift practices in sign. For example, it might be the case that spoken quotation is necessarily accompanied by multimodal displays of character viewpoint (e.g., a change in gaze or facial expression) — and that the type of quotation (quoted speech vs. fictive interaction) affects multimodal production since there is a functional difference in use. If this is indeed the case, then we might also find that the visual modality is used in a similar way by different types of language users.
1.4. Research questions

To address these issues, we decided to focus on semi-spontaneous dyadic interaction (friends telling autobiographical stories to each other), and only analysed quotations (quoted speech or fictive interaction). By using a corpus of semi-spontaneous narratives, we hope to establish general patterns of multimodal quotation. Our research questions are:

Which visual, vocal, and linguistic means are used to demonstrate character viewpoint during quotation in spoken English? Is the use of bodily articulators indicative of the type of quotation (quoted speech or fictive interaction)? Or, in other words, which practices constitute role shift in quotations by speakers of American English, and what function does role shift serve? Although we only investigate spoken quotation, our findings will be relevant for broader investigations of similarities and differences between speech and sign on the use of the visual modality during communication more generally, or in the multimodal expression of character perspective in particular.

2. Method

We analysed direct quotations occurring in a corpus of semi-spontaneous narratives collected by the first author near San Francisco (US) in January 2012. In this section, we provide an overview of our corpus collection and annotation procedures. More detailed information is available in Stec (2016) and in a paper package which is available at the Mind Research Repository.

2.1. Corpus

Our corpus consists of 704 quotations identified in approximately five hours of video data of 85 narratives ranging in length from 0:31 to 15:51 (average length: about 5 min) an average of 27 quotes per speaker (std. dev = 9; median = 19). Twenty-five native speakers of American English (16 females and 9 males, all in their mid-20s or older) were recorded telling semi-spontaneous autobiographical narratives to a friend. All participants completed a two-step consent procedure in which they first consented to participate in the corpus collection and then granted specific use of the materials just collected, such as use of the images in section 3. Participants were asked to tell each other personal stories which their friend did not already know, and were provided an optional topic list to use if desired. All participants comfortably alternated the roles of telling and requesting narratives. Participants were also asked to complete the Interpersonal Reactivity Index (Davis, 1980) to assess the role of perspective taking in role shift practices. However, as speaker gender and scores on the Interpersonal Reactivity Index were not predictive in the analyses described in section 4, we do not discuss them further.

2.2. Annotation

The first author annotated the entire corpus. Stec (2016:Chapter 4) describes in detail how we obtained inter-observer validity and refined our annotation scheme, which we summarize here. Importantly, we used a four-stage consensus procedure whereby 10% of the data annotated by the first author was compared with annotations made by the second author and three independent annotators. Discussions between annotators focused on identifying the source of disagreement, and were therefore preferred to measures of Kappa which can mask the underlying source of (dis)agreement – see Steima and Cameron (2007) and Gnisci et al. (2014).

We used ELAN to annotate our data. ELAN is free video annotation software developed by the Max Planck Institute for Psycholinguistics (see Wittenburg et al., 2006, and http://tla.mpi.nl/tools/tla-tools/elan/). Our final annotation scheme is shown in Table 1, and makes use of Tiers (variables) and Controlled Vocabularies (values). Importantly, it includes variables for linguistic features pertaining to quoted utterances and visual and vocal features (grouped under ‘Bodily Resources’) that contribute to the expression of character viewpoint. These features were included based on their identification in previous work looking at the production of multimodal quotations and multimodal character viewpoint (see Stec, 2012:351–353 for an overview).

We first noted whether or not each utterance was a direct quotation. This decision was based on the presence of quoting predicates such as say or be like or, in the case of bare quotes, a shift in indexicals (with the deictic centre of the utterance located in the original context or the quoted utterance). See Buchstaller (2013) for more about identifying quotations in discourse. We further noted whether each quotation was quoted speech or fictive interaction (Pascual, 2014), or could not be unequivocally assigned to either category (unclear). We identified fictive interaction utterances on the basis of the following criteria: the quoted utterance (i) voices a character’s thoughts, (ii) an entity which cannot speak, or (iii) refers to a future, pretend or counterfactual scenario. We also identified the quoting verb. Initially we noted each verb individually, but most of the 22 verbs we found occurred only once or twice in the whole dataset. We therefore kept only the
four most common ones as separate categories and combined all others in one group, yielding the coding categories ‘bare’, ‘be like’, ‘say’, ‘think’ and ‘other’. The only verbs in the ‘other’ category that occurred more than twice were go (23), ask (11), tell (8), and realize (4).

Annotators then noted whether the speaker was demonstrating some aspect of the quoted character multimodally (i.e., using any bodily resources). All annotators were familiar with the notion of demonstrations, character viewpointed gestures and role shift practices, and were asked to keep those notions in mind while judging the data. Each judgement was marked on the Role Shift tier as ‘present’, ‘absent’ or ‘unclear’. Three examples of ‘role shift present’ are given in Fig. 3.

Table 1
The annotation scheme used in this project.

<table>
<thead>
<tr>
<th>Category</th>
<th>Tier</th>
<th>Controlled vocabulary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linguistic information</td>
<td>Transcript</td>
<td>Text</td>
</tr>
<tr>
<td></td>
<td>Utterance type</td>
<td>- Quoted speech</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Fictive interaction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Unclear</td>
</tr>
<tr>
<td></td>
<td>Quoting predicate</td>
<td>- Bare (no quoting predicate)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Be like</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Say</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Think</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Other</td>
</tr>
<tr>
<td>Bodily resources</td>
<td>Role shift</td>
<td>- Present (the speaker demonstrates the quoted character, e.g. by showing how they looked or felt)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Absent (the speaker doesn’t demonstrate the quoted character)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Unclear</td>
</tr>
<tr>
<td>Character viewpoint</td>
<td>Intonation</td>
<td>- Present (speaker’s voice altered to demonstrate the quoted character)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Absent (speaker’s voice unchanged)</td>
</tr>
<tr>
<td>Hands</td>
<td></td>
<td>- Character viewpoint gesture (speaker’s hands demonstrate a manual action performed by another entity)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Other gesture (including beats, iconic gestures which are not character viewpoint, deictic gestures, emblems, etc.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- No gesture</td>
</tr>
<tr>
<td>Character facial expression</td>
<td></td>
<td>- Present (speaker’s facial expression changes to demonstrate the quoted character)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Absent (speaker’s facial expression is unchanged)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Unclear</td>
</tr>
<tr>
<td>Gaze</td>
<td></td>
<td>- Maintained with addressee (speaker’s gaze is directed to addressee throughout the quote)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Away from addressee (speaker’s gaze is not directed to the addressee throughout the quote)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Late change (speaker’s gaze moves away from the addressee after the quote started)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Quick shift (speaker’s gaze jumps around throughout the quote)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Unclear</td>
</tr>
<tr>
<td>Posture change</td>
<td></td>
<td>- Horizontal (the speaker moves in a horizontal direction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Vertical (the speaker moves in a vertical direction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Sagittal (the speaker moves in a sagittal direction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Unsure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- None (the speaker’s body does not move)</td>
</tr>
</tbody>
</table>

Source: Adapted from Table 4.2 in Stec (2016:69).

Fig. 3. Three instances of ‘Posture Change’ from the dataset: sagittal (Image 1) and vertical (Images 2 and 3). All three instances were also marked as Role Shift ‘present’.

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These examples demonstrate variable uses of the speaker’s body in terms of number of active articulators, size of movements, expressivity, and so forth. These judgements reflect the annotators’ intuition whether the speaker is using their body to give an impression of the quoted character. These annotations answer the question “Do I (as annotator) have the impression of first person perspective when watching this segment?” The subsequent annotations of specific bodily resources used (described below) answer the question “If so, which articulators are involved in that may have caused this impression?”.

After the Role Shift annotation, the use of specific articulators was identified. We included both manual and non-manual actions in our annotation scheme, paying special attention to active contributions of the articulators. For the purpose of annotation, an articulator must be ‘active’ in order to be marked ‘present’. For example, consider two speakers who produce a character-viewpoint gesture which demonstrates paddling a canoe: one has a neutral facial expression, and the other has a terrified expression. In both cases, McNeill (1992) would say that character viewpoint is mapped onto the speakers’ entire body, but only in the case of the terrified facial expression can the face be said to play an active role in that mapping. The difference intended by active use of CVPT manual gestures, character facial expression, and character intonation. For character intonation, we noted whether the user used special intonation which was noticeably different from the normal or narrative voice, e.g. a change in pitch, accent, or a change in the rate of speech to indicate aspects of the quoted character’s speech, and called this ‘active’. For gaze, we operationalized ‘active’ by adding the stipulation that any change would be meaningful, thus the value ‘change’, ‘quick shift’ and ‘late change’ are active uses of gaze while ‘maintaining gaze with the addressee’ is not. Finally, Posture Change indicates the direction of movement or shift in body orientation made by speakers during the quoted utterance, and may reflect movements made by the head, torso and/or hands, regardless of the amount of physical space or number of moving articulators involved.

To illustrate this, consider Fig. 3. (The narratives from which these images were excerpted are discussed in section 3: Image 1 is Transcript 2, line 4; Image 2 is Transcript 3, line 3; and Image 3 is Transcript 4, line 4). Arrows are overlaid on the images to indicate the direction of movement the articulator makes. We annotated a sagittal change in Image 1 as the speaker (right of the frame) simultaneously moves her left arm forward as she leans her torso backwards. We annotated a vertical change in Image 2 as the speaker successively moves his head and gaze downwards, as indicated by the arrow. We annotated a vertical change in Image 3 as the speaker moves his entire body – head and gaze, torso, and right hand – upwards.

We counted all movements that were not self-adaptors (e.g., re-adjusting seated positions, looking down to scratch their nose, and so forth). As we had no specific hypotheses concerning direction of movement, we operationalized ‘change in any direction’ (horizontal, sagittal, vertical) as ‘active’ for the purposes of our quantitative analysis.

As several of these articulators are rather infrequent in the corpus, we created a variable called Articulator Count which counts the number of active articulators for any utterance. It has a range of 0 to 5 to indicate ‘no articulators active’ (0) through ‘all articulators active’ (5). For example, an utterance with no manual gesture (‘no gesture’, 0), character intonation (‘yes’, 1), character facial expression (‘yes’, 1), active gaze (‘quick shift’, 1) and no change (‘none’, 0) would have an articulator count of 3.

3. Multimodal role shift practices

In this section we provide a qualitative overview of the role shift practices observed in our dataset. These practices serve as the basis for the quantitative analysis we present in section 4. Consistent with Earis and Cormier (2013), we show that speakers in our dataset rarely make use of full character embodiment, and do not often produce character viewpoint gestures. More frequent are other indications of viewpoint shift, such as the use of character intonation or character facial expressions. In other words, we see a range of articulation from what can be called character embodiment, with every articulator active, to minimal mapping (only one articulator active), with most utterances falling somewhere in between. The following three examples illustrate this range – from the fully enacted to the minimally marked.

The first example, from a narrative called Concert, consists of four fictive interaction utterances in a row. Two are produced by Pink, the narrator of the story, who uses them to describe her attitude and the band’s attitude as they started to perform. Black, her addressee, chimes in (Couper-Kuhlen, 1998) with two fictive interaction utterances which voice members of the audience as the performance begins. In all four cases, we see multiple articulators, co-produced in the quotation, depicting the quoted characters. This contrasts with the second example, from Cast, where the narrator of the story, Black, recounts the initial moments of a recent visit to the Emergency Room.

2 As one reader pointed out, a speaker could be ‘actively’ displaying a neutral facial expression, and this would not be captured by our annotation scheme. That is correct. However, distinguishing neutral narrator from neutral character (or narrator from character) is a difficult task (see, e.g., Parrill, 2012). For this reason, we chose to focus on clear character embodiment as much as possible.

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instances of quoted speech, and all four show minimal use of bodily articulators. In the final example, from God’s Eye, the narrator quotes his former roommate (quoted speech) and then his own internal reaction (fictive interaction). The quoted speech utterance here again shows minimal use of bodily articulators, while multiple articulators are used for the fictive interaction utterance.

Concert is narrated by Pink (left in the figure), and is about her first concert-going experience as a teenager. An excerpt is given in Transcript 2 and Fig. 4 (note that each line of the transcript corresponds to an image in the figure). Arrows indicate movement of the articulator they are linked to; e.g. in Fig. 2, Image 1, Pink’s right hand moves to the left, towards her body. At this point in the narrative, Pink describes how her favourite band started their set, and her reaction to it (line 2 in the transcript): she raises her head and gaze so that she is looking upwards, as if to the on-stage performers. Her left hand is still clasped close to her chest, from a previous section of the narrative in which she describes how she and her best friend linked hands so they wouldn’t be separated in the mosh pit. In line 3 Pink uses fictive interaction to describe the attitude of the band members as they walk on stage, and uses her body to demonstrate their attitude: she looks directly at Black, and quickly moves both arms forwards and backwards, showing how the band purposefully, but silently, walked on stage. In lines 4 and 6 Black, her interlocutor, chimes in with fictive interaction utterances which voice the audience’s excitement at having the main act start – note that Black was not at the concert, so her utterances can only be fictive. In line 4, Black turns her face to her left and looks up while raising her left arm up, palm up. In line 5, Black turns back to face Pink as Pink says “yeah”, and in line 6, Black again turns to her left and looks up, raising both arms in celebration above her head while producing line 6 with a kind of character intonation which is evocative of excited members of the audience. Whereas Pink uses the quoting verb like to introduce her quotes, Black uses bare quotes. In each of these multimodal utterances, we see multiple articulators working together: head and gaze direction, arms, body orientation and even character intonation work together to manage the interpersonal gesture space and represent the quoted characters.

Transcript 2: Concert

1 Pink: and then the people just like walk out on stage
2 [past.self] and I was like that’s so cool such a simple entry
3 [band] it’s like we own this shit
4 Black: [audience] and now they’re here
5 Pink: [audience] yeah
6 Black: [audience] all right

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In contrast, in Cast, there is only minimal use of articulators. Cast is narrated by Black (right in the figure), and is about a recent trip he made to ER as the result of an arm-wrestling match gone so wrong he had to have emergency shoulder surgery; see Transcript 3 and Fig. 5. In this sequence, Black recounts his interaction with the intake nurse at ER. The entire sequence is a quoted dialogue, with quoted speech introduced by the quoting verb say. Here, we see little to no contributions by other articulators. During the first quoted utterance in line 3, Black gradually drops his head to his chest and starts mumbling; normally he is a very clear narrator, so we take this mumbling to be an indication of character intonation. However, in the remaining quoted utterances, in lines 5, 6, 7 and 8, there are no contributions by bodily articulators. As can be seen in Fig. 3, Black’s body remains neutral. Although his voice takes on list intonation (see Selting, 2007), it does not take on any character intonation. In terms of multimodal co-articulation, this sequence contrasts with the previous example as there is minimal use of multimodal co-articulation for the first quoted utterance, and none for the rest of the quoted dialogue.

Transcript 3: Cast

1 Black: the woman at the ER wanted to ask about my insurance
2 and I didn’t want to talk about it
3 [past.self] so I said I dunno I dunno I dunno
4 you know it was just like
5 and they asked me if I had had anything to drink
6 [past.self] and I said yes
7 [nurse] and they said how much
8 [past.self] and I said enough
9 and they laughed

Our final example demonstrates how contrasting bodily articulators can be used to distinguish characters, while quoting verbs – both like in this excerpt – do not. This example comes from God’s Eye, a narrative told by Black (right in the figure) about a night terror which disturbed both him and his college roommate, see Transcript 4 and Fig. 6. At this point in the narrative, the roommate is trying to wake Black up from his night terror, and says Black’s name in line 6. Black, meanwhile, is sitting in a quiet panic by the bedroom door. The movement accompanying this quote starts on line 4 with the quoting verb which is co-articulated with a rightwards movement of Black’s head. The gesture, which starts in line 3, is held throughout the exchange (lines 3–5). The long silence (line 4) between the quoting verb and quoted utterance (line 5) is iconic for the real-life long silence Black experienced at the time. Finally, his internal response in line 7, a fictive interaction utterance which demonstrates his internal reaction (but not external reaction, as we later learn), is accompanied by a quick turn of Black’s head to his left and then back towards his interlocutor. At the same time, he shows the character’s surprise on his face (character facial expression) and with a two-handed gesture.

Here, we see the same speaker using both a minimal indication of role shift (line 5) and the use of multiple bodily articulators (line 6): a quick turn of the head in line 5 contrasts with the use of multiple articulators in line 6, where character intonation, character viewpoint gestures, character facial expression and a change in the direction of Black’s gaze work together to evoke Black’s past self. This multimodal differentiation both distinguishes the quoted characters and highlights what the viewpoint character (Black’s past self) was experiencing.

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These examples also demonstrate further similarities and differences in the use of role shift practices by speakers in our corpus. For example, gesture space is used in different ways. In Concert, both Pink and Black use a relatively large gesture space to enact quoted characters while the speakers of Cast and God’s Eye both use relatively small gesture spaces, with articulator movements happening relatively close to their bodies. The degree to which articulators are activated by each speaker also varies – for example, in Concert, Black’s facial portrayals are more vivid than Pink’s, and in God’s Eye, they are more vivid for his past self than for his roommate.

At the same time, there are also similarities in the multimodal activity during quotation. The fictive interaction utterances in Concert and God’s Eye were co-articulated with multiple articulators, with the number and type of articulators indicating multimodal perspective shifts via the evocation or representation of the quoted character and took up more of the speaker’s gesture space. In these examples, we saw character viewpoint gestures co-articulated with character intonation, facial portrayals or the meaningful use of gaze and change. In other words, speakers in our corpus flexibly used and combined the multimodal means available to them to express character viewpoint at perspective shifts.

4. Quantifying multimodal role shift

In this section we report the frequencies of our variables of interest for quoted speech and fictive interaction utterances, and regression models which (i) predict role shift practices on the basis of multimodal articulation, and (ii) predict fictive interaction utterances on the basis of role shift and quoting predicate.
There are 407 quoted speech utterances and 238 fictive interaction utterances in the dataset, and 59 utterances whose classification as quoted speech or fictive interaction was unclear. For a clean delimitation of the class of fictive interaction, we treated the unclear cases as quoted speech, resulting in 466 quoted speech utterances.

As Table 2 shows, both quoted speech and fictive interaction utterances are most often produced with *be like* or as bare quotes (38.2% and 27.7%, respectively, for quoted speech, and 40.8% and 36.1%, respectively, for fictive interaction). The relative frequencies of *be like* do not differ notably between quoted speech and fictive interaction (38.2% vs 40.8%), but there are differences in the other quotative categories: whereas quoted speech utterances are more often introduced by *say* (21.9% vs 2.5%) and by other quotatives (10.5% vs 6.7%), fictive interaction utterances are more often produced as bare quotes (27.7% for quoted speech vs 36.1% for fictive interaction) and introduced by *think* (1.7% vs 13.9%).

Fictive interaction utterances are more likely than quoted speech utterances to be accompanied by role shift (58% vs. 43.4%; see Table 3).

Next we consider the use of active articulators, given in Table 4. One interesting result is the frequency of CVPT gestures: they accompany only 19.7% of quoted speech utterances and 22.3% of fictive interaction utterances. The use of character facial expression (FVPT) also differs, accompanying 42.1% of quoted speech utterances but 58.8% of fictive interaction utterances. The use of gaze is similar in the two types of quotes: 73.2% for quoted speech and 68.1% for fictive interaction, as is the use of character intonation: 53.4% for quoted speech and 58.8% for fictive interaction. The same holds for the use of change — that is, direction of movement, accompanying both types of quotes: 85% for quoted speech and 84% for fictive interaction.

Overall, the two types of quotes show a similar pattern in terms of number of articulators which are simultaneously active with the highest frequencies for two articulators (29.4% for quoted speech, 23.9% for fictive interaction), followed by

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one (11.4% for quoted speech, 11.8% for fictive interaction) and three simultaneously active articulators (27.3% for quoted speech, 28.6% for fictive interaction). There is a slightly different pattern for the remaining values: quoted speech is more likely to be produced without any active articulators than fictive interaction (3.2% vs. 1.3%) but fictive interaction is slightly more likely to have four (25.6% vs. 22.3%) or five (8.8% vs. 6.4%) active articulators than quoted speech. In other words, fictive interaction utterances are more often produced with some kind of multimodal activity than quoted speech utterances are. This is shown in Table 5.

These results indicate that speakers coordinate multiple bodily resources during quoted utterances; that is, they actively use multiple articulators which are evocative either of character viewpoint (via character viewpoint gestures, facial portrayals or intonation) or of viewpoint shift in general (direction of gaze, direction of movement). This coordination is similar to role shift practices in sign. While overall fewer articulators than in sign are used, some kind of viewpoint shift does occur. Moreover, the way in which it occurs suggests a differentiation of behaviours based on type of quote.

The two types of quotes show some important similarities and differences in their multimodal co-articulation. Both quoted speech and fictive interaction quotations are most likely to be presented as bare quotes or introduced with be like. Both are also more likely to be accompanied by two simultaneously active articulators, and show a similar pattern for other numeric combinations of articulators. Neither is very likely to be accompanied by a CVPT gesture – overall, this was the least frequent articulation to appear in the corpus. However, both are fairly likely to be accompanied by some kind of change, i.e. movement of the head, torso and/or hands.

In contrast, quoted speech is more likely to be introduced with the verb say while fictive interaction is more likely to be introduced with the verb think. Fictive interaction is more often accompanied by character facial expression and character intonation than quoted speech, which is somewhat more often accompanied by meaningful use of gaze (as we define it). Fictive interaction is also slightly more likely to be accompanied by four active articulators, while quoted speech is more likely not to be accompanied by any active articulators. This difference is also reflected in the role shift data (Table 3): fictive interaction utterances are more likely to be accompanied by role shift than quoted speech utterances are.

4.2. Modelling role shift practices

Although the results in the previous section suggest differences in the multimodal actions accompanying quoted utterances, they do not specify the extent to which the differences (or similarities) are systematic. One way to try to gauge

Table 5
Number of articulators used in quoted speech and fictive interaction (numbers and proportions of articulators coded “active” or “present”).

<table>
<thead>
<tr>
<th>Number of active articulators</th>
<th>Quoted speech</th>
<th>Fictive interaction</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>%</td>
<td>N</td>
</tr>
<tr>
<td>Zero</td>
<td>15</td>
<td>3.2</td>
<td>3</td>
</tr>
<tr>
<td>One</td>
<td>53</td>
<td>11.4</td>
<td>28</td>
</tr>
<tr>
<td>Two</td>
<td>137</td>
<td>29.4</td>
<td>57</td>
</tr>
<tr>
<td>Three</td>
<td>127</td>
<td>27.3</td>
<td>68</td>
</tr>
<tr>
<td>Four</td>
<td>104</td>
<td>22.3</td>
<td>61</td>
</tr>
<tr>
<td>Five</td>
<td>30</td>
<td>6.4</td>
<td>21</td>
</tr>
</tbody>
</table>

Table 6
Bodily indicators of character perspective in quoted speech and fictive interaction (means and standard deviations for the occurrences of all five indicators).

<table>
<thead>
<tr>
<th>Type of quote</th>
<th>Number of articulators</th>
<th>Mean</th>
<th>Std dev</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quoted speech</td>
<td></td>
<td>2.73</td>
<td>1.205</td>
</tr>
<tr>
<td>Fictive interaction</td>
<td></td>
<td>2.92</td>
<td>1.197</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>2.80</td>
<td>1.205</td>
</tr>
</tbody>
</table>

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There is a main effect of change in any direction, the presence of which is thus also predictive of role shifts (\(b = 1.5963, z = 4.501, p < 0.001\)). Finally, there is a negative main effect for the intercept, which indicates that in the absence of these predictors, no role shift occurs (\(b = -2.63, z = -6.4, p < 0.001\)).

Table 7
The best generalized mixed-effects regression model for Role Shift. Only predictors for the best-fit model are shown. Negative estimates indicate lower probability.

| Model specification IsRS ~ IsCVPT + IsIntonation + IsFvpt + ChangeAnyDirection + s(Speaker, bs = “re”) + s(File, bs = “re”) |
|---|---|---|---|---|---|
| Parametric coefficients: | Estimate | Std. error | z-value | Pr(>|z|) | Signif. |
| (Intercept) | -2.6300 | 0.4110 | -6.399 | 1.56e-10 | *** |
| Character intonation: Present (1) vs. absent (0) | 1.4696 | 0.2756 | 5.332 | 9.70e-08 | *** |
| Character facial expression: Present (1) vs. absent (0) | 0.7845 | 0.2156 | 3.638 | 0.000274 | *** |
| CVPT gesture: Present (1) vs. absent (0) | 1.1629 | 0.2222 | 5.235 | 1.65e-07 | *** |
| Change Any Direction: Present (1) vs. absent (0) | 1.5963 | 0.3546 | 4.501 | 6.76e-06 | *** |

Smooth terms: edf Red.df F p-value

| s(Speaker) | 1.411e-04 | 1 | 0.0 | 0.918 | *** |
| s(File) | 5.047e+01 | 84 | 127.6 | 2.11e-11 | *** |

R-sq.(adj) = 0.417; Deviance explained = 39.6%
UBRE = -0.006; Scale est. = 1; n = 704

Significance is indicated as follows:
* \(p < 0.05\).
** \(p < 0.01\).
*** \(p < 0.001\).

We investigate the extent to which different bodily articulators systematically contribute to the expression of role shift by speakers of American English. In modelling the presence (1) vs. absence (0) of role shift in our dataset, our initial model included the following variables as potential predictors: the meaningful use of gaze, character intonation, character facial expression, CVPT gestures, change in any direction, and quoting predicates (bare quotes vs. verbs of quotation). A step-wise elimination procedure was used to arrive at the final model, presented below.

To reduce the chance of Type-II errors (Baayen et al., 2008), we fit the maximal random effects structure supported by the data for each model. This meant the inclusion of random intercepts for speaker and narrative, as it is possible that some speakers or narratives would systematically use different multimodal articulation strategies than others. We used an exploratory model-fitting procedure to assess the relationship between desired outcome (namely, presence of role shift as indicated by annotators) and the multimodal, linguistic and individual factors which might affect it. We eliminated variables which accounted for the least variance in the data in a stepwise fashion. This was done by comparing AIC scores, where a reduction of 2 points is generally indicative of a better-performing model (Akaike, 1979). As the final step of our analysis, we measured the index of concordance, \(C\), for final models. \(C\) indicates the amount of variance in the data which is accounted for by the model, and is generally considered to be good when \(C = 0.8\) as this indicates that 80% of the variance is accounted for.

The best-fit model for presence of role shift in our dataset is presented in Table 7, and has a fit of \(C = 0.89\), which is indicative of a very well-performing model. The model shows a main effect of character intonation, which is more likely to be present than not (\(b = 1.47, z = 5.33, p < 0.001\)), and a main effect of facial expression, which is more likely to be present than not (\(b = 0.78, z = 3.64, p < 0.001\)). Although infrequent in the data, there is a main effect of CVPT gestures, which are predictive of role shift (\(b = 1.16, z = 5.24, p < 0.001\)) indicating that when they are present, a shift is likely to be present. There is a main effect of change in any direction, the presence of which is thus also predictive of role shifts (\(b = 1.6, z = 4.5, p < 0.001\)). Finally, there is a negative main effect for the intercept, which indicates that in the absence of these predictors, no role shift occurs (\(b = -2.63, z = -6.4, p < 0.001\)).
they matter -- consistent with the notion that language is inherently multimodal, rather than a linguistic stream which is

quotes, we feel confident in concluding that multiple bodily activities are a regular feature of spoken language use and that

Gerrig (1990). In addition, given the fact that a complete absence of bodily articulators was rare in our dataset of 704

having to completely represent the quoted character, and is even more minimal than the cues discussed by Clark and

the direction of the speaker

may be only a minimal indication of character embodiment, such as when only character facial expressions or a change in

the speaker

articulation when quoting themselves or others in semi-spontaneous narratives. This co-articulation may be indicted by

Overall, our results show the interplay of linguistic and multimodal

use of role shift (positive predictor for fictive interaction; negative predictor for quoted speech) and the absence of a

differences between quoted speech and fictive interaction utterances, such as different use of quoting verbs or

fictive interaction. While the qualitative analyses in

Recall that for each quoted utterance in our dataset, annotators noted whether the utterance was quoted speech or

fictive interaction. In this section, we investigate whether role shift can be used to predict type of quotation by speakers of

American English. In modelling the use of fictive interaction (1) vs. quoted speech (0) in our dataset, our initial model

included the use of role shift and quoting predicates (bare quotes vs. verbs of quotation). These variables were tested for

exclusion in a step-wise fashion to arrive at the final model, presented in Table 8. This model has a fit of C = 0.85, which is

indicative of a well-performing model. The model shows a marginal effect of role shift, which is more likely to accompany

fictive interaction than quoted speech (β = 0.43, z = 1.83, p < 0.1). There is a main effect of quoting verb: fictive interaction

quotes are more likely to be introduced with bare quoting predicates (β = 0.71, z = 2.63, p < 0.01). Finally, the intercept is a

main effect (β = −1.45, z = −2.14, p < 0.01) indicating that, overall, an utterance is less likely to be fictive interaction than

quoted speech.

Taken together, these models suggest that multiple articulators are involved in multimodal utterance production, and

that behavioural and linguistic factors both contribute to the production of multimodal quotation. All articulators were found

to be predictive of role shift practices; and role shift together with use of quoting predicate were found to be predictive of

fictive interaction. While the qualitative analyses in section 3 and the frequencies reported in section 4.1 showed some
differences between quoted speech and fictive interaction utterances, such as different use of quoting verbs or

articators, the models rather suggest that two multimodal features are important for predicting type of quote, namely the

use of role shift (positive predictor for fictive interaction; negative predictor for quoted speech) and the absence of a

quoting predicate (bare quotes are a positive predictor for fictive interaction and a negative predictor for quoted speech).

Overall, our results show the interplay of linguistic and behavioural features as well as the joint operation of multiple

indicators in multimodal utterance production. They also indicate that multiple articulators act together. This is

demonstrated by the results of the role shift practices model (Table 7) for which five multimodal features were predictors,

and the modelling of fictive interaction utterances (Table 8), with the presence of a quoting predicate and role shift as

predictors. Thus, we see a tight coupling of linguistic and multimodal behaviours during quotation.

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5. Discussion and conclusion

The empirical evidence presented here clearly shows that speakers of American English often use multimodal co-

articulation when quoting themselves or others in semi-spontaneous narratives. This co-articulation may be indicted by

the speaker’s entire body, such as when all articulators actively contribute to the representation of the quoted character, or

may be only a minimal indication of character embodiment, such as when only character facial expressions or a change in

the direction of the speaker’s gaze is produced. This minimal marking is just enough to suggest a perspective shift without

having to completely represent the quoted character, and is even more minimal than the cues discussed by Clark and

Gerrig (1990). In addition, given the fact that a complete absence of bodily articulators was rare in our dataset of 704

quotes, we feel confident in concluding that multiple bodily activities are a regular feature of spoken language use and that

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optionally paired with other communicative streams of information. In this way, this study also demonstrates the fundamental use of the visual modality during communication, whether by users of spoken or signed languages.

This study points to the importance of using ordinary people in naturalistic situations, and to looking at what these people do in situ, rather than what we would hope they would do given the abilities of others (e.g. the sign/speech comparisons of full character embodiment, or lack thereof, found in Rayman, 1999; Earis and Cormier, 2013). Participants in our corpus were found to use whatever means were available to them to communicate, and demonstrate, multimodal viewpoint shifts – from subtle uses of gaze, to changes in body or head orientation, to larger, full-bodied character enactments which involve the active use of most articulators on the body which are typically associated with communication. This is a more fluid, varied picture of English speakers’ multimodal perspective shifting abilities than previously offered. While it is true that the speakers in our corpus rarely use character viewpoint gestures or full-bodied enactments where all possible bodily articulators are used in tandem (something akin to role shift practices, as they are typically described and taught to learners of signed languages), we do see a systematic use of bodily articulators to indicate that shifts to quoted character perspective are occurring.

As we have demonstrated, quoted speech utterances and fictive interaction utterances behave both similarly and differently when it comes to multimodal behaviours, and those differences appear to be systematic: although both types of quotes may be accompanied by role shift practices, the presence of role shift practices in our corpus of quotations was only predictive of fictive interaction, as quoted speech tends to be accompanied by fewer articulators while fictive interaction utterances tend to be accompanied by more. This is in line with Blackwell et al.’s (2015) finding that quotations introduced with say (which we find almost exclusively in quoted speech and very rarely in fictive interaction) showed low levels of ‘bodily demonstration’. This difference needs to be investigated further, as does the extent to which the articulators co-occur. This present study points to the prevalence of the simultaneous occurrence of multiple bodily articulators, but more research is needed to clarify the extent to which articulators co-occur and how effective they are to reach different communicative ends. Only then can we investigate application questions such as whether their use can be taught as a communicative strategy to, e.g., entrepreneurs, politicians and others involved in high-stakes storytelling, or to brain-damaged individuals or others with communicative disorders.

There are also limitations to the generalizability of our results: We only annotated multimodal behaviours accompanying quoted utterances, and did not attempt to describe or quantify multimodal behaviours occurring elsewhere in the narratives. Thus, we do not know whether these articulators are used throughout narratives when viewpoint shifts occur, or whether they are used more generally throughout conversation for other purposes. Our intuition is that these shifts do accompany viewpoint changes – and are therefore more prominent with quoted utterances, even if they are not exclusively accompanying them. A second point is that, in order to streamline the coding process, we only annotated presence or absence of ‘active’ multimodal activity using hierarchical tiers in ELAN. A more nuanced annotation scheme, which could have accounted for the real-time activation of each articulator independent of others, would have used independent tiers with independent time codes, and may have provided a better understanding of how multiple articulators become active and to what extent they co-occur, overlap, or follow each other. Finally, while the regression models presented here are useful for pointing to predictive behaviours which can be used to identify, e.g., prototypical examples of role shift practices used by speakers or certain types of multimodal quotations, they obviously do not account for the wide range of behaviours used by our participants, such as quoted speech with full multimodal enactment or fictive interaction with minimal multimodal co-articulation, both of which do occur in our dataset.

Another open question concerns the meaningful use of speaker gaze, which was not found to be predictive of role shift. Sweetser and Stec (2016) describe speaker gaze as one of the means by which embedded viewpoint structures are managed, and Sidnell (2006) notes that re-directing speaker gaze away from addressees is one of the means by which speakers can signal that a reenactment is taking place. However, Thompson and Suzuki (2014) note that speakers may intentionally direct their gaze to addressees when treating them as fictive interlocutors for some reenactments. In sign, role shift is often described (and taught) as a representational strategy which involves re-directed gaze – but as Cormier et al. (2015) and Janzen (2012) point out, while re-directed gaze may be prototypical behaviour, it is not obligatory. Although there is a general agreement that speakers and signers re-direct their gaze to signal a shift to character perspective, this is not always the case. Two factors might have affected the results presented here. First, the models only indicate predictive features – that is, whether the use of an articulator is able to predict the presence of role shift. The fact that gaze is not included in the model only means that it has no predictive status, not that its meaningful use does not occur. Second, we noticed that some speakers in our corpus “meaningfully” look towards their addressees when quoting, and others “meaningfully” look away. Our coding scheme only notes whether speakers gaze towards the addressee or elsewhere, and so does not account for this qualitative difference. What we can say is that speakers seem to be adept at flexibly using multiple bodily articulators to indicate shifts in viewpoint.

In summary, we have shown that English speakers do indicate multimodal perspective shift in a way which is akin to role shift in sign – provided we use a definition of role shift which fits the dynamic, flexible means with which speakers use their bodies during face-to-face communication. Overwhelmingly, the quotations in our corpus are accompanied by
meaningful engagement of the speaker’s body. Although manual character viewpoint gestures rarely accompany these 486 utterances (perhaps because of unsuitable event types, see Parrill, 2010), other articulators evocative of the quoted character – such as facial expression or intonation – or movements which indicate a change in viewpoint (such as 487 direction of gaze or body movement) were often found to act in coordination in the quotations we investigated. Further 488 pursuit of this line of investigation could benefit our understanding of both signed languages and multimodal spoken 489 communication.

Our study provides empirical evidence in support of theories that consider bodily resources as essential elements in 490 face-to-face communication, e.g. Clark’s (2016) staging theory, which provides an integrated account of the logic and 491 uses of a broad range of depictions including iconic gestures, facial gestures, quotations, full-scale demonstrations, and 492 make-believe play. We have provided some insight into the means available to speakers of American English for 493 expressing multimodal role shift in quotations and found their use to be related to the epistemic status of the quotation 494 (quoted speech vs. fictive interaction). More work is needed to understand how bodily articulators are used individually or 495 in combination, under what circumstances, and to achieve which goals. As our study has demonstrated, if we move 496 beyond the expressive capabilities of the hands, we might be better able to answer these questions. On a broader view, 497 our results confirm that language is multimodal in multiple ways – and our capacities for multimodal communication are as 498 intricate as the skill with which we can construe even the subtlest of movements as meaningful.

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