

# Letter-Sequence Dialogues<sup>1</sup>

David G. Novick, Brian Hansen & Terri Lander  
Center for Spoken Language Understanding  
Department of Computer Science and Engineering  
Oregon Graduate Institute of Science & Technology  
20000 N.W. Walker Road  
P.O. Box 91000  
Portland, OR 97291-10000

novick@cse.ogi.edu, brianh@cse.ogi.edu, tlander@cse.ogi.edu

February 18, 1994

---

1. This research was supported by National Science Foundation grant No. IRI-9110797.



Introduction .....	5
Task .....	5
Experimental Procedure .....	6
Recordings .....	7
Verbatim Transcripts .....	7
Narrative Transcripts .....	7
Gaze/Turn Transcripts .....	8
Bibliography .....	9
Narrative transcript for Session 1, Sequence 1 .....	11
Narrative transcript for Session 1, Sequence 2 .....	15
Narrative transcript for Session 2, Sequence 1 .....	25
Narrative transcript for Session 2, Sequence 2 .....	29
Narrative transcript for Session 3, Sequence 1 .....	33
Narrative transcript for Session 3, Sequence 2 .....	37
Narrative transcript for Session 4, Sequence 1 .....	41
Narrative transcript for Session 4, Sequence 2 .....	45
Verbatim transcript for Session 1, Sequence 1 .....	49
Verbatim transcript for Session 1, Sequence 2 .....	61
Verbatim transcript for Session 2, Sequence 1 .....	79
Verbatim transcript for Session 2, Sequence 2 .....	91
Verbatim transcript for Session 3, Sequence 1 .....	105
Verbatim transcript for Session 3, Sequence 2 .....	109
Verbatim transcript for Session 4, Sequence 1 .....	125
Verbatim transcript for Session 4, Sequence 2 .....	133
Gaze/Turn pattern for Session 1, Sequence 1 .....	141
Gaze/Turn pattern for Session 1, Sequence 2 .....	145
Gaze/Turn pattern for Session 2, Sequence 1 .....	151
Gaze/Turn pattern for Session 2, Sequence 2 .....	155
Gaze/Turn pattern for Session 3, Sequence 1 .....	159
Gaze/Turn pattern for Session 3, Sequence 2 .....	161
Gaze/Turn pattern for Session 4, Sequence 1 .....	167
Gaze/Turn pattern for Session 4, Sequence 2 .....	171



# Letter-Sequence Dialogues

## 1 Introduction

This report contains transcripts of human conversants collaborating face-to-face in completing a simple task within a laboratory setting, along with descriptions of the task and the transcription techniques used. It was our intent that these transcripts would aid in the understanding of domain-independent mechanisms for conversational control. Such mechanisms would include those used for *meta-locutionary* purposes such as turn-taking, reference, repair, and maintenance of mutuality. Our overall purpose in gathering this information was to abstract from the observed behaviors a set of rules which could be used to computationally simulate the interactive behaviour of human conversants, and to test the behaviour of computational agents using those rules against that human behavior.

To this end, we conducted a set of experiments in the Interactive Systems Laboratory at OGI with human subjects carrying out a simple task in a face-to-face setting. The interactions were recorded and transcribed following three different transcription conventions: a verbatim transcript, capturing the behaviours of the subjects; another attempting to capture the intentions of the subjects; and a third depicting schematically the interaction of direction of gaze and turn-at-speech.

## 2 Task

In choosing a task for this experiment, several factors were considered. The task to be performed had to be simple enough that there could be little or no misunderstanding of it on the part of the subjects, yet complex enough to produce the kind of behavior characteristic of “real-world” problem-solving. Further, it needed to be within a limited domain so as to avoid the introduction of outside knowledge on the parts of the participants: the kind of knowledge that humans bring to discussions of art or politics, for example, goes well beyond the current state of the art of knowledge modeling. Finally, the task needed a well-defined goal, one that required collaboration in order to be completed.

The laboratory task was designed to elicit task-oriented mixed-initiative conversations. Because we were interested in examining meta-locutionary effects, the domain was deliberately kept as simple as possible. Furthermore, we wanted the task to be short so that complete conversations could be analyzed at a detailed level. We chose for our study a mental task, that of jointly reconstructing a sequence of random letters. Two subjects were each given a card on which was

printed a sequence of 17 letters and blanks (see Figure 1). The cards were prepared by producing a random sequence of letters and then introducing blanks so that:

- no more than seven letters occurred without an intervening blank, and
- a given position was blank for at most one of the cards.

Thus, the subjects could reconstruct the entire sequence only by collaboration.

Each subject was instructed to memorize the sequence on his or her card without looking at the other subject's card. The cards were then put out of sight and the subjects were instructed to work together to reconstruct the complete sequence. Subjects were given as much time as they wanted to complete the task. The subjects were recorded on videotape as they worked through their sequences until they felt that they had reconstructed the sequence, or had at least gotten as far as they could. It is this requirement that introduces notions of collaboration and mutuality into the dialogue.

Preliminary testing showed that this task is difficult enough to demand a high degree of task focus and even to raise the possibility of error, but not so difficult that subjects are likely to become frustrated. At the same time, the domain of discourse is simple enough to permit modeling of conversants' goals and belief states at a detailed level. While the domain of this conversational task is simple, it nonetheless captures some of the flavor of many real-world conversations. Each conversant cooperatively attempts to reach mutual understanding in the face of missing information.

### 3 Experimental Procedure

Subjects were matched by gender and approximate age. All were unacquainted adults and all were native speakers of American English. Subjects were paid a small amount for their time; payment was not contingent upon completing the task successfully. A total of four pairs of subjects (two male, two female) each completed two letter sequences for a total of eight dialogues.

Subjects were seated approximately three feet apart, at a 90° angle to each other with a low coffee table between them. Three cameras were used to record the sessions. One camera was positioned in front of the subjects to capture the interaction as a whole. The other two cameras were positioned to the sides, focused on the face of each subject to capture gaze direction and facial expressions. Three transcripts were created for each dialogue. One transcriber prepared a detailed record of the hand gestures, gaze direction, and utterances of each speaker. A second transcriber, working from the video tapes and the detailed transcripts, prepared an explication in a narrative

Subject A:	O	_	O	S	E	_	A	G	F	H	C	W	_	E	_	_	Z
Subject B:	_	S	O	S	_	X	_	G	F	H	_	_	L	E	B	Y	_

**Figure 1. Sample letter sequences**

style similar to that suggested by Cook (1990). These narrative transcripts attempted to capture the experimenters' sense of what had transpired during the conversation. The third transcript contains a highly abstracted account of turns and gaze. Each set of transcripts was checked by the other transcriber. Discrepancies were resolved informally.

## **4 Recordings**

We recorded the sessions using three cameras, one focusing on the overall interaction, and two recording the eye movements and facial expressions of the participants. The view of the overall interaction was recorded on the 3/4" U-Matic format and was SMPTE coded to allow timing information to be captured precisely. The other two cameras were each focussed on the head and torso of each of the conversants in order to permit recording facial expressions and direction of gaze. These cameras incorporated an internal time-stamp and recorded onto 8mm videotape cassettes.

## **5 Verbatim Transcripts**

Many notational systems are available for recording body movement, facial behavior, and gestures, each with its own expressiveness and ease of use. We chose to use spreadsheet software, with the passage of time vertically represented as a set of "events" in successive rows, and the different "channels" of action (verbal, gaze, gesture) recorded in separate columns. Simultaneous events, then, were represented as occurring in the same row. The behavior of both participants was recorded side-by-side within a single spreadsheet.

In particular, the each subject's events are transcribed in terms of:

1. movements of the face and body,
2. movements of the hands,
3. movements of the eyes, and
4. what the subject said.

In addition, the 8mm camera timestamp reference is occasionally recorded for each person for ease of use in locating events on the original tapes.

Event numbers are associated with actions and are used to capture sequence and synchrony of behaviour, and the SMPTE timestamp associated with the wide-view camera is also recorded occasionally. Only some of the experimental sessions had timing information transcribed.

## **6 Narrative Transcripts**

After the verbatim transcripts were prepared, the experimenters made another pass on the data to produce a transcript in the form of a narrative. These narrative transcripts aid in the interpretation of the beliefs and intentions of the subjects. Though necessarily more subjective than the verbatim

transcripts, they are useful in showing the quantity and type of reasoning performed in producing even the simplest utterance or gesture. They embody, in effect, a theory of the interaction.

The narrative transcripts are related (via event numbers) to the verbatim transcripts, although many entries describe what is happening over a series of events.

## **7 Gaze/Turn Transcripts**

Finally, the gaze/turn transcripts were produced by abstracting from the verbatim transcripts the notions of turn-at-speech and direction of gaze. For the purposes of this study, a speaker is said to start a turn at the event number in which they begin speaking, while the speaker is said to have stopped their turn when just after their last utterance that was followed by the other's starting to speak. When overlapping speech occurred, we coded a turn change if the original speaker stopped talking and the other continued speaking. Single event utterances are coded as "start/stop." Note that our definition of turn treats verbal and non-verbal back-channel responses differently. For example, a verbal "Okay" counts as a turn, but a head nod does not.

Direction of gaze is depicted using the "<" and ">" symbols. The meaning of these symbols depends on whether they are representing the left or right subjects. For example, a "<" appearing in the left subjects eye column would be interpreted as the subject looking away from the other, and ">" would be interpreted as looking at the other. Conversely, ">" is looking away, and "<" is looking to, for the right subject.



## Bibliography

- Argyle, M., & Cook, M. (1976). *Gaze and Mutual Gaze*. Cambridge: Cambridge University Press.
- Clark, H. H. & Schaefer, E. F. (1989). Contributing to discourse. *Cognitive Science*, 13, 259-294.
- Cook, G. (1990). Transcribing infinity: problems of context presentation. *Journal of Pragmatics*, 14, 1-24.
- Duncan, S. (1972). Some signals and rules for taking speaking turns in conversations. *Journal of Personality and Social Psychology*, 23(2), 283-292.
- Kendon, A. (1978). Looking in conversations and the regulation of turns at talk: a comment on the papers of G. Beattie and D. R. Rutter et al. *British Journal of Social and Clinical Psychology*, 17, 23-24.
- Novick, D. G. (1988). *Control of mixed-initiative discourse through meta-locutionary acts: a computational model* (Technical Report No. CIS-TR-88-18). Department of Computer and Information Science, University of Oregon.
- Novick, D. G. (1990). Modeling belief and action in a multi-agent system. In B. Zeigler & J. Rozenblit (Eds.), *AI, Simulation and Planning in High Autonomy Systems*. Los Alamitos, CA: IEEE Computer Society Press.
- O'Connell, D. C., Kowal, S., & Kaltenbacher, E. (1990). Turn-taking: a critical analysis of the research tradition. *Journal of Psycholinguistic Research*, 19(6), 345-373.
- Rutter, D. R., Stephenson, G. M., Ayling, K., & White, P. A. (1978). The timing of looks in dyadic conversation. *British Journal of Social and Clinical Psychology*, 17, 17-21.
- Sacks, H., Schegloff, E. A., & Jefferson, G. (1974). A simplest systematics for the organization of turn-taking for conversation. *Language*, 30, 696-735.



## Narrative transcript for Session 1, Sequence 1

1-6 Once the cards are memorized and put safely face-down on the table, the two women look at one another. RIGHT takes the initiative and begins talking immediately. In a friendly tone she asks, “OK, I guess you get to start, huh?” She continues looking at LEFT while she speaks, smiling faintly at the end of her question. LEFT is looking at her, too. They have good eye contact.

7-12 LEFT does not appear surprised that she is asked to begin. Without changing the smiling expression on her face, she looks away and says, “OK, uh, the first letter I had was V...” Her voice rises in pitch when she says V. Her intonation seeks the next letter, and lets RIGHT know that she does not have the second letter. LEFT's facial expression becomes more concerned as she says “V,” because she is thinking. This may be a contributing reason for the drawn out intonation.

13-18 LEFT closes her eyes momentarily and looks at RIGHT. Before her eyes open, however, RIGHT begins her turn, saying, “And then the next two that I had were X and H.” It appears that the clue for RIGHT to begin was LEFT's tone of voice, since she begins speaking before LEFT actually looks at her. Also, she was probably prepared to give the second letter from the start, since she only had one blank. When taking the turn, RIGHT looks up (away from LEFT), and rolls her head to the side, closing her eyes in an effort to concentrate better. The movement of her head is reminiscent of a tennis ball which has just bounced in her court. Her bodily movement emphasizes her taking of the turn. It is an evidence that the two women are harmonious in their communication thus far, both catching the signals the other gives.

18-23 Above, when RIGHT says her two letters, LEFT opens the palm of her left hand and points at it twice with her right hand to keep track of what RIGHT is saying. When RIGHT finishes speaking, LEFT nods, and repeats the letter H. She then looks away, as she knows she must offer a letter next. She says, “And...,” looking down and moving her finger up and down rapidly as she tries to remember her next letters. “Then I had Y and S.” The transition words the women use (the first, and then) were started by LEFT in 9, and continue till the end of the activity as an overt means of taking turns and making the sequence “flow” together.

24-26 Again, RIGHT begins speaking before LEFT actually looks at her, but LEFT's tone of voice and RIGHT's knowledge of the sequence make it plain that it is her turn. RIGHT says, “OK, and then I had P.” She rolls her eyes up when she begins speaking, but then ends nodding at LEFT and looking at her as she waits for her response.

27-33 LEFT waits for just a second, seemingly hoping that RIGHT will give another letter. Since she doesn't, LEFT says, “uh oh, then I had a space, I had--oh no I didn't. (I) had one space.” Although much of LEFT's confusion is not expressed in words, it seems that she must have thought that after her S she had more than one space. So, when RIGHT only adds the letter P, she expects more. When she realizes that she was mistaken, that she actually does have letters to follow RIGHT's P, she corrects herself.

33-40 RIGHT, however, is confused, and says, “You had two spaces, right?” RIGHT could be thinking about her sequence, which had two blank spaces, but it is hard to tell what was the source

of her confusion since she doesn't explain it. LEFT, however corrects her assuredly, saying, "I had one space." LEFT looks directly at her and points as she says this to emphasize her confidence in the matter. She then goes on immediately, trying to think of her next two letters. (She says, "OK, so uh...")

41-46 RIGHT, however, is not convinced, and continues looking at LEFT with a muddled expression. Then RIGHT says, "Oh, alright, you're right." Evidently, though LEFT had not been looking at RIGHT, she was aware of her confusion, because when RIGHT realizes her mistake, LEFT is relieved. She looks at RIGHT, and they both laugh. LEFT says, "(I) was going uh-oh wait, (we) both had a space." LEFT's hands collaborate with her speech, as she holds her hand out in front of her, as if to stop something when she says, "oh, wait."

47-52 LEFT continues her task, that of coming up with those two letters. She changes back to this task so quickly after their misunderstanding that it is clear that they have remedied their confusion. However, she says, "Umm...mmm..uh oh, now I've lost it," because she cannot remember them. As LEFT is talking, RIGHT rolls her eyes up again, and nods slightly to review the sequence. Having done this she seems confident, and looks back at LEFT, waiting for her to remember. She smiles at her, possibly to try and relieve some of the pressure.

53-58 LEFT suggests a possibility, proposing, "maybe an L and then an M?" She is insecure about this answer and seeks confirmation from RIGHT saying, "Did you have an M?" She is wringing her hands together nervously.

59-65 RIGHT looks away at this point, saying, "uhhhhh..." She recognizes the letters L and M, but says, "Later on. Right." She starts explaining as if she is going to review the past few letters in order to help LEFT get back into the flow of the sequence. LEFT realizes that she must be wrong because of RIGHT's hesitation. She evinces this saying, "Uh-oh," scratching her arm nervously. RIGHT reconsiders her initial idea of reviewing the past few letters and decides it might be best to start from the beginning. She looks at LEFT and says, "You wanna try and start over?--or would that help?"

66 LEFT, ready to start over, either because she had already thought it would be helpful or because of RIGHT's attention getting eye contact (or both), looks up and begins to mouth the first letter, "V." Superfluously, RIGHT says, "OK, you start." LEFT, however is already beginning, and actually has to hold back what she is saying in order for RIGHT to finish asking her to say it. Her hands further reveal her readiness, as she keeps trying to count the first letter on her hand, but she has to start over more than once because RIGHT is still speaking.

67-77 LEFT starts with "V X H," and RIGHT repeats the H, because she had that letter. RIGHT counts on her hands as LEFT gives the next letters, Y and S. LEFT says S with finality and nods her head. RIGHT, nodding, takes the turn, saying, "OK then P." Her P is said explicitly, because she wants LEFT to contribute her next letters. LEFT, on the other hand, does not remember them, so she opens her eyes and mouth widely and points forward as if the letter might come out if she is dramatic enough. (Drum roll, etc.) But it is to no avail, because she is still letterless at the end of her turn.

78-80 RIGHT, though looking directly at LEFT, seems unaware of, or unaffected by LEFT's cute

dramatic display. Still trying to jog LEFT's memory she says, "and then I had two blanks so you shoulda had those two letters." At this point it seems like RIGHT may not know that these are the same two letters that LEFT couldn't remember before.

81-92 LEFT explains, saying, "I I did have something, but I don't remember what it was now. It was-there was two letters and then I had two more blank spaces." She holds out two fingers as she says, "two" to be more explicit. LEFT seems a bit reluctant to admit that she can't remember, because she is probably embarrassed.

93-97 RIGHT relieves her, though, by going on with the next two letters, "Right. And then I had A F..." RIGHT must realize by now that it would be best to just go on, since LEFT is no closer to remembering.

98-107 RIGHT continues, saying, "and then L M..." Both RIGHT and LEFT are counting with their hands to keep track. RIGHT looks away from LEFT and tries to think of what came next. As RIGHT looks away, LEFT forms the coming T in her mouth but does not release it immediately, because RIGHT still has the turn. LEFT, taking the turn, says, "T," just as RIGHT says, "then there was a blank." LEFT goes on, since she knows these next letters, saying "P," just as RIGHT repeats her T. Once RIGHT gets passes the T, she has four letters in a row, so she says, "P S O and then R," in a row. LEFT agrees with the S, following closely behind RIGHT in her utterance of it, and conducts her hand up and down as RIGHT says O and R showing approval of those letters, but not producing them, since they were not on her card.

108-116 RIGHT then looks at LEFT, smiling, and says, "So we're missing..." LEFT concurs before RIGHT finishes, saying, "So we're missing the..two middle...there." LEFT's interruption of RIGHT here is not surprising, because it looked like she wanted to speak before RIGHT started, since she had an slightly anxious expression on her face and unreleased letters on the tip of her tongue. RIGHT looks away as LEFT says this and then back to her. She concludes LEFT's sentence by clarifying the letters, "right before A and F." LEFT realizes fully what is lacking, that it is exactly that which she cannot remember, so she closes her eyes and makes a mock-crying sound. RIGHT sympathizes with LEFT and they both laugh.

117-118 LEFT pauses for a little more than ten seconds as she tries to remember the letters. She has her hands ready to count in the event that the letters do come to her, and she vaguely mouths the beginning of the sequence. She is smiling, but appears anxious to remember the letters. RIGHT is looking at her, which may be an added source of pressure. As LEFT is in counting position, RIGHT, too, puts her left hand out where she normally has it to count on. But, since LEFT doesn't say anything, RIGHT withdraws her hand and waits.

119-125 Finally, LEFT says, "So," and then begins to repeat the sequence from the beginning. Counting on her hands, she says, "V X H M S." The transition word "so" was useful, because it is a summarizing word, and it clued RIGHT in that she wanted to go through the letters one more time. LEFT does not look at RIGHT, in order to concentrate better. As LEFT speaks RIGHT synchronously says X and H, because these are letters she has on her card. She adds the letter P after LEFT's S. RIGHT is counting as well, trying to be as explicit as possible in order to help LEFT.

126-135 Still not looking up, LEFT says “nnn...” She pauses for a few more seconds, deep in thought. RIGHT fills the silence with, “the P was a blank for you though, so the next two...oh, those are the two that you're having a hard time...?” As RIGHT says “the P was a blank,” she illustrates it with her hands by scraping on one finger, as if erasing something that was there. By this time it seems that RIGHT must know that these are the letters LEFT is having a hard time with, and the tone of LEFT's response, “Yeah,” would indicate that it was abundantly clear by now. However, perhaps RIGHT said it to be sympathetic, or maybe to get LEFT to realize that she wasn't going to remember, and that it was all right with her if they would end without those two letters.

136-142 LEFT looks up at RIGHT, and says, “So and then what was the next..you had..?” She is asking about the letters that follow the ones she can't remember. She does this to relieve the pressure of her having to remember those two letters immediately, and also, probably just as one more attempt to come up with them. RIGHT supplies A and F, the following letters, but then she goes back and reviews the ones preceeding, saying, “After the P then there are two more blanks..”

143-161 LEFT, knowing this, reiterates, saying, “blanks.” RIGHT continues, saying, “and then I had A F L M.” LEFT is listening intently as RIGHT speaks, and then she pauses. She gets a knowing smile on her face, and says, “Right. So the two blanks I can't remember..are the two blanks you had.” She smiles, looking away. RIGHT agrees, saying, “Right.” LEFT also says this. There is silence because both realize that they can go no farther. RIGHT looks at the experimenter, and they simply leave it at that.

## Narrative transcript for Session 1, Sequence 2

0 When the discussion begins, the participants negotiate who will go first. LEFT, knowing that has a blank, points her arm in RIGHT's direction. She looks straight at RIGHT, waiting for her response.

1 RIGHT accepts the turn, saying, "OK, I start." Her willingness to begin and her speedy acceptance suggest that she may have anticipated starting the series. (This is not surprising, considering she knew she had the first letter.) LEFT continues pointing at RIGHT throughout the turn. She seems to want to emphasize that she does not want to take a turn until RIGHT has given sufficient information (the next letter(s)).

2 RIGHT says, "O," and stops there, looking at LEFT. By This RIGHT signifies that she has finished her turn, and wishes for LEFT to speak.

3 LEFT accepts the O, and says the next two letters, S and O. She continues looking at RIGHT, thereby offering the turn.

4 RIGHT looks up while she thinks of what to offer next.

5 She initially offers an E and then pauses.

6 RIGHT winces and looks away uncertainly.

7 Initially accepting RIGHT's contribution, LEFT takes the turn, beginning to say the next letter. She then realizes that she needs to gain a better understanding of why RIGHT hesitates, so she looks at RIGHT, offering her the turn. RIGHT scrunches her eyes, indicating that she does not wish to take the turn.

8 LEFT says, "Did you have?" still looking at RIGHT. RIGHT looks away, still thinking.

9 LEFT points to RIGHT saying, "No, you must have..." Her pointing seems to indicate that she wants RIGHT to explain the problem.

10 LEFT quickly retracts from pointing, softening her accusation and sympathizing with the problem RIGHT is having. RIGHT takes the turn, saying, "wait a minute."

11 LEFT places her hands in her lap and sits quietly, letting RIGHT speak.

12 RIGHT says "I had O," beginning the sequence again. She speaks in the past tense to insure that LEFT understands that this is not the next letter, but that she is indeed starting over.

13 RIGHT continues with her conviction to start over, and tries to initiate LEFT's response by saying, "and then you had..." while counting on her fingers and looking up at LEFT.

14-17 LEFT answers RIGHT's quest for information supplying the next two letters, S and O. RIGHT glances LEFT's direction, having answered RIGHT's question, and having completed her turn. RIGHT echoes LEFT's two contributions as she thinks through the series. Her eyes shift away from her partner. She looks uncomfortable due to her inability to remember the sequence correctly and avoids eye contact.

18 Now left begins counting on her lap while right tries to reconstruct the sequence, saying "n I had..."

19 The tension of the moment overcomes RIGHT as she tosses her head back in laughter.

20 LEFT adjusts her glasses, allowing RIGHT to regain composure. Just then RIGHT remembers her next letters.

21-23 After saying O E, RIGHT points her thumb toward LEFT, saying, "and then there's a space, right?"

24 LEFT looks away, stalling until she can remember what she had.

25 Slowly, LEFT agrees with right, saying, "Yeah, I think..."

26-27 LEFT counts on her hands, agreeing with right. RIGHT is still pointing to LEFT, but probably because she has forgotten where her thumb is with all of the confusion. Or, RIGHT could be unconsciously trying to take the responsibility off of herself by pointing at LEFT.

28 LEFT counts on her hands once again as she looks up at RIGHT. LEFT says that she thinks she had one space and then two spaces.

29-30 LEFT points at RIGHT and seems to want to speak. However, she stops herself twice because she is unsure.

31 RIGHT stops pointing at LEFT and quickly says "uh right," like she is going to take the turn.

32 Suddenly LEFT remembers and exclaims, "The next one's X," as she points at RIGHT. This is in answer to RIGHT's question in 23, where RIGHT was seeking the filler for the space which she had.

33 LEFT looks at RIGHT saying quickly, with a low voice, "Did you have an X?" She touches bases with RIGHT here to ensure RIGHT's agreement.

34 RIGHT reassures LEFT that she did not have an X. It is clear that the two have remedied their breach in communication.

35 LEFT confirms this saying, "OK" with finality in her voice.

36-37 Back on track, RIGHT says her letter A, counting on her hands once again.



38-43 LEFT bites her lip as RIGHT continues with the next five letters (F G H C W). RIGHT actually turns two of the letters around, but repair is not sought immediately. LEFT's facial expression indicates uncertainty as she seeks to match what she knows she had to what RIGHT is saying.

44 RIGHT releases her turn by saying "Then I had a space." She turns her palm upward as a signal that she needs more information from LEFT in order to continue.

45 LEFT looks away, evidently trying to fit the two patterns together. Counting on her fingers, LEFT acknowledges that it is her turn and accepts it, saying, "OK."

46-47 LEFT begins reconstructing her side of the pattern, saying, "I had G F, a space."

48-49 Still counting, LEFT continues with "a C, a space." RIGHT, thinking through what LEFT is saying seems to follow what LEFT contributes.

50 To signal the completion of her turn, LEFT looks away. RIGHT then looks at LEFT. She has caught on to LEFT's train of thought.

51 RIGHT, seeing that what LEFT said matches the 5 letters she said, closes her palm and takes the turn. She supplies the following letter, E, and looks at LEFT.

52-53 LEFT looks at RIGHT and doesn't offer any information. RIGHT encourages LEFT's participation by looking at her and smiling, saying, "and then I had two spaces." LEFT looks away for a moment to think.

54-58 Taking the turn now, LEFT looks at RIGHT and says "then I had an L E B Y." As LEFT says, "and then I had," RIGHT waves two fingers. This could indicate that RIGHT knew LEFT had at least the next two letters, possibly because she had two spaces. This gesture is never explained because LEFT hereafter repeats this section, and RIGHT does not reveal what her sequence contained.

59 LEFT stops counting now and holds her open palm out to the side in a dramatic request for RIGHT to fill the slot.

60 RIGHT says the last letter, Z.

61-62 LEFT, realizing they've reached the end, exclaims, "OK." Both RIGHT and LEFT laugh.

63 LEFT points to RIGHT, signifying that she wants to review. Her verbal utterance confirms this desire.

64-66 RIGHT takes the turn saying, "OK. So we had..."

67 RIGHT points to LEFT and looks at her saying, “You had O.” She originally says this fairly confidently, but then she pauses and seems unsure.

68-72 LEFT points to RIGHT as if to say, “I’m not sure about what you just said,” but RIGHT interrupts, having realized her mistake. RIGHT places her hand on her chest as if to accept responsibility for the error or possibly illustrate the “T” in her statement “No, I had, no, I was O.” Simultaneous to RIGHT’s acceptance of responsibility, LEFT confirms RIGHT’s error, saying, “No you had the O.”

73 RIGHT acknowledges LEFT’s correction, and agrees, saying, “right.”

74 RIGHT continues her turn, saying, “and then you had...” LEFT definitively but gently says “S then O.” She is confident of her memory of the pattern.

76 RIGHT looks away, clearly thinking, and most likely confused. She still has her hand on her chest.

77-79 RIGHT then drops her hand from her chest, first offering two letters and then admitting confusion. She says, “Then I had S e...I’m I’m confused now. She had a problem with this section the first time through the string, and she clearly has not resolved it.

80 RIGHT starts again, “I had O...” speaking in the past tense and looking down, muttering to herself what she had. She begins counting on her leg with her fingers.

81 RIGHT pauses as she tries to reconstruct the string.

82-84 Beginning again RIGHT says “OK, I had O and then you had what?” She looks at left, squinting her eyes, really seeking information from LEFT.

85 LEFT again says her first two letters, S and O.

86-87 RIGHT, still unclear, repeats what LEFT said and then continues with, “n I had...”

88 RIGHT looks away in order to concentrate. LEFT just watches.

89 RIGHT, still lacking the confidence needed to convince LEFT, supplies the next two letters, S and E.

90-92 RIGHT then gives the turn to LEFT saying, “OK, and then there was a space.” She looks at LEFT and opens her palm toward her as if to ask LEFT to fill it with the correct response.

93 RIGHT keeps her palm open toward LEFT and looks at her. LEFT doesn’t respond immediately, but instead looks away.

94 Both RIGHT and LEFT pause momentarily, as they try accurately remember the order of the letters.

95-96 LEFT points to RIGHT and opens her palm toward her. She looks at her and begins to review what has just been said. “So you had...you had O...”

97-98 Still not completely sure of the beginning of the string, but trying to fulfill LEFT's request for information, RIGHT says, “Well, I had O,” as she retraces her steps. She begins pointing in the air, forming a number one as she says she had one space.

99 At this point LEFT points to RIGHT and begins to say something. At the same time RIGHT begins to speak. They are both talking at the same time in an attempt to repair this miscommunication.

100 LEFT accepts what RIGHT said, saying, “OK.”

101-102 LEFT concludes from this, “that would have been S.” RIGHT comes to a conclusion at the same time as LEFT, though she says, “So that would have been yours,” indicating that she did not know what the letter to fill the space was, but that it was LEFT's, at least. LEFT is pointing to RIGHT throughout this exchange as if to say that she is giving this as an answer to her space.

103 The repair has been made, and RIGHT confirms both that she heard LEFT and that she thinks the letter S is correct.

104-5 LEFT asks a leading question, “and then you had an O again?” She stops pointing at RIGHT at the end of this utterance, probably so that RIGHT doesn't feel too pressured.

106 RIGHT acknowledges LEFT and takes the turn, saying, “and then I had O S E.”

107 LEFT partially closes her hand and looks away, indicating that she needs a moment to process the letters supplied by RIGHT. She uses a trailing voice as she thoughtfully repeats RIGHT's letter.

108-9 As LEFT gives the next letter, she rolls her hand over, as if to the next letter. She ends up pointing to RIGHT, giving the turn to her.

110 RIGHT acknowledges this and takes her turn, saying, “OK.” This utterance serves to establish understanding of what came previously, as well as to pave the way for new information.

111 RIGHT indicates that she is going to give the next letter(s) by saying, “and then...”

112-119 RIGHT begins counting with her hands in the air as she says “A F G H C W.” Lastly she says she has a blank, and she uses silence to indicate that she needs LEFT to provide the next letter.

120-121 LEFT, however, is slightly taken aback by RIGHT's bombardment of six consecutive letters. Added to this is the confusion is the fact that RIGHT switched two of the letters around in her recital. LEFT looks away, closing her eyes.

122-127 At this point LEFT begins counting with her hands and looking at RIGHT. She begins by reciting the problem part with her hand pointed slightly in RIGHT's direction. She softens her

correction by not pointing directly at RIGHT. She says, “OFG or OGF?” Her intonation rises on the first F and G, because this what RIGHT uttered incorrectly. The second GF sequence is said with an even intonation, slightly lower than the previous, which serves to indicate that LEFT, at least, thinks the OGF order is the correct one. 128 RIGHT begins saying, “I had A,” counting with her hands.

129 RIGHT looks away and stops momentarily as she tries to think through the sequence again.

130-133 RIGHT begins again and says the letters in their correct order, A G F H C W. It is unclear if she had realized her error or if she thinks she said the same thing both times.

134-136 When RIGHT finishes, she looks at LEFT. Her eye contact with LEFT indicates that she is confident.

137-138 When RIGHT is through and looks at LEFT, LEFT counts on her hands, reviewing what RIGHT said and comparing it with her mental picture.

139-141 LEFT confirms, saying, “Yeah. I had the G and the F,” counting on her hands.

142 LEFT then looks away and her voice trails off, indicating that she doesn't know what comes next.

143 LEFT looks at right possibly seeking help, just as RIGHT takes the turn. She supplies the letter E, but it is the incorrect one.

144 LEFT accepts RIGHT's letter initially with a confirmative “OK,” and supplies the next one, a C.

145 Both LEFT and RIGHT pause, as LEFT realizes that something is wrong. RIGHT doesn't seem to realize yet that she has erred.

146-7 This is confirmed, because as LEFT seeks repair by saying, “what was after yours?” RIGHT starts to explain that her next item is a space, saying, “And then I had one more blank, though.” It is possible that the two are thinking of different parts of the sequence.

148 LEFT, not having received an answer to her previous question (what was after yours?) asks another, more direct question. RIGHT, however, begins at the same time to say something else.

149 RIGHT looks away, unsure of what LEFT is asking.

150 For the third time, LEFT seeks information from RIGHT. However, it is to no avail, because RIGHT still does not understand.

151-2 RIGHT begins to speaking to herself, saying, “I had A F G.”

154-160 Then, as if she finally understands LEFT's confusion, she says them louder while looking at LEFT.

161 Her hands collaborate with her voice as she says, "I had A F G H C W all in a row," making a smooth sweeping motion with her right hand. She indicates to LEFT, no doubt to answer her question in 150, that there were no blanks.

162 LEFT, listening primarily for what comes after the C, as she had asked about in 148, misses RIGHT's dislexic switching of the G and H entirely, and repeats the final three items, HCW, that RIGHT had uttered. She speaks as if to herself, just to confirm what RIGHT had said.

163 Then LEFT points to RIGHT, confirming that she understands now, and that repair has been made. She reiterates her understanding with another "OK, so" phrase. 164 LEFT repeats the letter C again and her hand collaborates dramatically as she forms the C with her hand.

165 LEFT brings her hand toward her body for her transitional utterance, "and then."

166 Again LEFT's hands act out the scene, forming the letter W as she contributes that as the next letter.

167 LEFT returns her right hand to her lap and puts out her left hand. She does not open her hand, however, as if to indicate that she wants to hold the turn. She confirms this by saying "and then I had..."

168-171 Counting with her hands she supplies the next four letters.

172-3 Now LEFT opens her left hand and with her palm turned slightly to the side, she points at right.

174 RIGHT interprets LEFT's hands as a turn giving act, so with no hesitation, she takes the turn and supplies the final letter, Z.

175 LEFT returns her hand to her lap and says "and then a blank," just after RIGHT says Z. LEFT says this to agree with RIGHT's Z.

176-7 LEFT, slightly uncertain and noting uncertainty in RIGHT says, "Does that sound right?" This locution establishes that they have completed the sequence, and it seeks RIGHT's confirmation at the conclusion.

178-206 At this point, due to RIGHT's uncertainty, outside advice is sought. RIGHT addresses the experimenter, explaining her confusion.

207 When RIGHT's confusion is cleared up, LEFT signals to RIGHT that she wants to start anew.

208-210 RIGHT seconds that motion with "OK, let's try that again." This is an explicit indication that RIGHT agrees with LEFT in her desire to say the sequence again.

211-213 LEFT begins by stating, "I think there's 16 or 17 letters," information that helps them both to see the sequence as a whole. This seems to be an attempt to gain a wider perspective which is often helpful in cases such as this.

214 RIGHT takes the turn, and LEFT looks down at her hands. Both RIGHT and LEFT count on their hands this last time through.

215 RIGHT offers the first letter, "O," and LEFT looks up at RIGHT.

216 When LEFT takes the turn, she closes her eyes and offers "S O." She closes her eyes in order to think without distraction.

217 When she opens her eyes, she looks up to RIGHT, and RIGHT says, "S E," the next two letters.

218-219 LEFT becomes uncertain, and as she closes her eyes half-way, saying, "Eck, uh wait."

220 LEFT indicates that she needs more time, but saying, "uh, wait" serves also to indicate that she wishes to keep her turn and that she doesn't want interference from RIGHT, as this might confuse her.

221 LEFT repeats the previous letters, S E to herself.

222 LEFT recovers, remembering that X comes next. She closes her eyes, as she says it. Repeating the letters to herself seemed to have aided her memory.

223 LEFT looks at RIGHT, telling her that she needs to give the next letters.

224 RIGHT complies, saying, "A F G." Her clear speech and the absence of pauses indicates confidence. This third time through is certainly much easier going.

225 LEFT looks away. She needs to think as RIGHT goes through this block of letters.

226 RIGHT continues, adding one more letter, an H.

227-228 As LEFT looks at RIGHT, RIGHT furthers the sequence with the letter C.

229 LEFT is alert at this point, the C having appeared on her card as well. LEFT confirms the letter C as RIGHT gives the next letter.

230 LEFT looks away, knowing that it is her job to give the next letters. She appears to need just a second to think.

231 She says, "OK," accepting RIGHT's contribution and indicating that she is ready to proceed.

232-236 LEFT says “L E,” and looks at RIGHT, possibly to indicate that it will be her turn soon. Another possibility is that she is seeking confirmation of what she just said. LEFT then says, “B Y.”

237-238 RIGHT says, “Z,” and finishes with, “OK, we got it.” Both LEFT and RIGHT smile, looking pleased and relieved.





## Narrative transcript for Session 2, Sequence 1

1-5 The two participants establish eye contact initially. LEFT continues looking at RIGHT and says, “OK...” He trails his voice as if he wants RIGHT to speak. He does this because he knows his first letter is blank. RIGHT, however, looks away, possibly to the experimenter, and says, “What shall we do?” Instead of receiving LEFT's signal to begin saying the sequence, RIGHT seeks outside assistance. When he gets no response, he looks back at LEFT.

6-15 LEFT, watching RIGHT, looks as if he wants to speak. He mouths something, but holds his tongue until he feels it is the right time to talk. He clarifies what he has, saying, “Um...my first one is a blank and then I've...,” at which time RIGHT interrupts, rather abruptly, with “L Y U blank.” LEFT seems to have been trying to communicate to RIGHT that he has a blank first, but RIGHT, picking up on this before LEFT is done speaking says his first three letters. It is somewhat awkward, because RIGHT does not change his gaze or anything in order to take his turn. His contribution is somewhat unexpected. When he is through, he raises his eyebrows and smiles saying in effect, “What do you have to say about that?”

16-30 LEFT looks at RIGHT momentarily, and says, “OK.” The pause may be due to LEFT's surprise at RIGHT's interruption, or to the fact that RIGHT has said the wrong second letter. LEFT looks away, and accepts the first letter, saying, “I have uh, an eh...so the first one'd be L...” He does not, however mention the second letter, but instead hopes to indicate by saying his second letter, that there is a discrepancy. He begins, “then I have uh...” RIGHT, impatient that LEFT didn't repeat all of the letters, repeats them, “L Y U were the first three and then a blank.” He looks away initially to take the turn, but ends the turn looking directly at LEFT.

31-44 LEFT nods and looks away saying, “OK.” However, his OK does not mean he agrees, because he goes on to tell his letters, which do not match with RIGHT's. It seems that LEFT is aware of the discrepancy, but for some reason does not speak of it directly. Instead he leaves it to RIGHT to notice the difference. He says, “OK...so my second third fourth fifth and sixth are L U S D Y.” He pauses after the letter L, possibly to make it stand out so that RIGHT will notice. He looks at RIGHT as he says D, preparing him to take the turn. RIGHT, however, had turned away when LEFT said his second letter was L. He notices that there is something different. There is a pause as LEFT looks at RIGHT to give him the turn, and RIGHT does not immediately take it because he is thinking.

45-58 Since RIGHT does not respond, LEFT says, “So...” It could be that he is planning to explain about the difference between what RIGHT said and what he had. But, before he gets the chance to speak anymore, RIGHT says, “So, your second one is L? What did I say? L L U blank D Y E E, that sound good?” What RIGHT has done, in effect, is claim that they were in agreement all along. It is unclear if he really doesn't remember that he had said L Y U or if he just wishes he had, since LEFT seems so sure of himself. In any case, RIGHT also contributes the next four letters, and then seeks confirmation from LEFT (that sound good?)

58-61 LEFT, having already nodded after RIGHT said L L U accepts what RIGHT has said. Not dwelling the point any further, LEFT says, “OK, so, that's the first eight? RIGHT nods and a

swers, “un-hunh,” but it seems that he is just saying that to be agreeable, since later he admits to not having memorized them by number.

62-76 LEFT looks away at this point and takes the turn. He says, “OK...and then uh...” RIGHT, who had looked away when LEFT began speaking, now looks at LEFT and says “blank blank...” LEFT, not really paying attention to RIGHT tries to continue, with, “number n(ine),” but is stopped short as RIGHT finishes his thought, “is what I got.” RIGHT smiles and laughs just a little, looking in anticipation at LEFT. LEFT, however, continues his thought, saying, “I have (looks away to concentrate) eight and nine were blank for me.” He looks directly at RIGHT, wanting him to speak. Now actually, LEFT has miscounted, but it is never brought out that way. RIGHT, now under more pressure because LEFT is wanting him to say letters that he doesn't have, stops smiling.

77-86 RIGHT, still looking at LEFT, says, “So after what we just said...?” He sighs and stares fixedly in front of him. LEFT now becomes specific with what he has been trying to indicate indirectly before, saying, “so you must have eight and nine filled in.” He then sits back, getting more comfortable in the chair, and folds his hands. He is looking directly at RIGHT, and seems to be smiling, but trying not to show it. His body movements and facial expression may reveal a feeling of superiority.

87-100 RIGHT says, “No.” with rising intonation, which comes off as though he is defending himself. He looks at RIGHT, but seems to lose some confidence, because he says “blank blank,” and then can't remember the two letters he has after the blanks. LEFT is looking at him this whole time with a slight grin on his face. RIGHT finishes, saying, “letter letter blank blank N G blank is what I got.”

101-116 Although RIGHT is correct in his memory, LEFT does not seem to buy it. He nods at RIGHT and smiles more obviously (but still not overtly) at RIGHT as RIGHT defensively says, “So, maybe they're blank. Maybe they don't have to be letters.” LEFT, still nodding, says, “OK, OK, uh...I'm trying to remember my number ninth one (laughs) nine ten.” It is unclear what is happening in LEFT's mind here, because he has just tried to get RIGHT to give him the ninth letter because he claimed his was blank, but now he is accepting the burden of coming up with the ninth one, as if he has had it all along (which, indeed, he has, he just forgot or was confused or something).

117-131 RIGHT doesn't notice the number play, because, as he admits, he “didn't remember 'em by number.” But, since LEFT seems so intent on doing them numerically, RIGHT mumbles his way through the sequence, and declares, correctly, that nine and ten are blank for him. LEFT tries to interrupt RIGHT at one point, saying, “number...” but since RIGHT is counting and concentrating so, LEFT fidgets with his glasses to pass the time till RIGHT is through.

132-140 LEFT looks away when RIGHT finishes speaking and says, “OK. Number nine was...I believe I. And number ten is V.” He looks at RIGHT at this point, and RIGHT, feeling the need to say something in response to LEFT's look, shrugs his shoulders, rolls his eyes, and says, “OK.” RIGHT's mannerisms reveal that though he has no idea what the letters are, he is perfectly willing to take LEFT's word for it.

141-148 LEFT goes on with number eleven, which is C. When he says this, RIGHT sports an interesting expression. He purses the right side of his mouth and opens his eyes wide. Perhaps he is surprised that LEFT can keep remembering the letters, or maybe that letter didn't sound right to him. The latter is not likely, because he had blanks here. LEFT makes eye contact with RIGHT just following the noted expression, and then looks away again as he thinks of number 12. Because of LEFT's pause while thinking of the twelfth letter, RIGHT looks away, possibly to think, or to avoid being responsible for offering a letter.

149-155 After LEFT says both 12 and 13, he looks at RIGHT. RIGHT, now remembering this part of the sequence lifts his eyebrows in anticipation of filling in numbers 15 and 16. LEFT says, "and number 14 is W and number 15 and.." at which point RIGHT tries to offer his letters. He gets as far as offering the N, when LEFT finishes his thought, "...16 are blank." RIGHT, still with raised eyebrows, says, "N G."

156-167 LEFT nods twice, repeating RIGHT's two letters, confirming that he accepts them. He then continues with the task, saying, "and number 17 is E." He is interrupted half way through by RIGHT, who affirms that his is blank. LEFT now nods to RIGHT for a few seconds. He then says "So, can we reconstruct that?" He has a hard time articulating the word reconstruct, and as a result, looks away in the middle of that word. This may have helped him concentrate. He laughs when he is through speaking.

168-177 RIGHT turns to the investigator and says, "did you did you remember all that? LEFT joins in, "We got it down on tape," and looks at RIGHT. RIGHT then agrees, saying, "We went through it one time, yes," and returns LEFT's look. LEFT says "Kay," indicating that they are done.



## Narrative transcript for Session 2, Sequence 2

1-5 To begin with, the two men sit with their hands in their laps. They look at one another, but where as LEFT moves his head directly and succinctly toward RIGHT, LEFT just slowly rolls his head in RIGHT's direction. This gives the impression that RIGHT is not as devoted to this process, where as LEFT appears ready for business. RIGHT begins, saying, "My first letter is O." He holds his hand in the shape of an O as he says this.

6-7 RIGHT without changing his gaze or his posture or giving any kind of preparation bluntly says, "Blank." LEFT turns away, probably as a reaction to RIGHT's rather startling remark.

8-15 LEFT slowly responds with "Kay...so..." RIGHT breaks in again, saying, "so you get it," and then seemingly out of the blue he gives the next letter, "G." LEFT doesn't respond to RIGHT's new letter, probably because he doesn't realize that he has given a new letter. RIGHT had said G with a rising intonation, so LEFT may have thought he was asking a question. Instead of responding with the next letter, LEFT reviews what has been said, "zero and then I had a blank," unconsciously referring to the letter O as the number 0. This is probably related to how he numbers each letter in the sequence. He then looks at RIGHT, seeking the next letter.

16-17 RIGHT, still looking at LEFT, does not change his gaze, or move in any way, but states, plainly, "G." He says it a little louder and more clearly than at first to make sure LEFT will hear him this time. When he says G, LEFT looks at him, processes what he said, and looks away. He says "sss," probably starting to say "so," as a transition word, because he plans to say the next few letters.

18-24 RIGHT says what he thinks is the right letter, "F," but it is doubtful that LEFT heard him or paid any attention to him if he did hear him. The reason LEFT would probably not pay attention, is that for one, he has the next three letters, so he doesn't need to hear what RIGHT has. Also, RIGHT's contribution of the F doesn't fit into LEFT's blanks. F doesn't belong in this part of the sequence, so it makes no sense to LEFT, who resultantly disregards it. Instead, he goes on to the next letters, saying, "then the third would be O...fourth is S...fifth is E..." Meanwhile, RIGHT, whose letter has been ignored, has looked away. LEFT's numbering of each letter does not seem to register with him, and it is unclear if he even notices that LEFT has not included his F in the sequence.

25-28 When LEFT is done speaking, he looks at RIGHT. RIGHT does not respond, so LEFT looks away, and adds further clarification, "then it's a blank," and looks back in RIGHT's direction for RIGHT to say the next letter. LEFT has also stopped counting with his hands, which is another clue for RIGHT that LEFT wants him to speak.

29-33 At this point, RIGHT pauses for about six seconds. He then makes an expression with his face which looks like he can't remember, so is not going to say anything. Then, rather abruptly he says, "X." It catches LEFT off guard, too, as he is just going to ask RIGHT if he knows what comes next. He says, "you know-?" just as RIGHT says his unexpected letter. In response to this, LEFT

looks away and whispers, “OK...” He seems a little put off. RIGHT then looks away and adds, “and a blank,” and looks at LEFT.

34-42 LEFT again says, “kay, um...” as he tries to think of what comes next. RIGHT, either because he knows he has blanks or because he doesn't know what he has, looks away, and seems to distance himself from LEFT. LEFT starts to give the next few letters, saying “A G...” and then he pauses because he cannot remember the next letter. RIGHT looks at him and then sighs and looks away. He shakes his head and looks as though he might say something. LEFT, not really sensitive to RIGHT's frustration, says, “and then I don't know.” LEFT appears to be on one track, and is not really paying very close attention to RIGHT.

43-46 RIGHT, realizing that some information from him could be helpful, but seeing that he is unable to give any, says, “I'm just drawing a blank on this now.” He looks at LEFT, possibly to say, “so can we just forget it?”

47-55 LEFT, however, continues trying to piece together this sequence. He says, “A G...and the one I I'm skipping I don't know...” At this point, LEFT, who has been looking away, looks at LEFT. It could be that he is surprised that he is still going on, even though RIGHT indicated that he wouldn't be much help. RIGHT looks away again.

56-66 LEFT says, “and then H C W,” at which point RIGHT lifts his eyebrow, but does not look in LEFT's direction. It is difficult to tell exactly what RIGHT is thinking, but he may be wondering why LEFT is still trying to reconstruct the sequence of letters. LEFT looks at RIGHT and continues, “and then I have two blanks so that the number 15 and 16--there's 17 total, 15 and 16 is blank.” As LEFT numbers these, he counts on his fingers in an attempt to keep his place.

67-81 LEFT tries to engage RIGHT, asking him, “can you remember the three on the end?” at which point RIGHT turns away. He says nothing, but appears very uncomfortable with the amount of pressure which is upon him. He shakes his head slightly. Giving more information, LEFT says, “Z,” jabbing downward with his right hand, “is the very end, the very last letter.” RIGHT interrupts LEFT as he is giving this hint, saying, “no,” in answer to LEFT's initial question. Since he was still thinking about the question, he does not appear to have listened to what LEFT said about the Z. But on the other hand, this information is not pertinent to RIGHT, because he has completely forgotten the entire sequence. He shakes his head and confesses with regret, “they were there but I don't remember them.” He looks up at left.

82-93 LEFT looks away and nods in acknowledgement of RIGHT's memory lapse. However, he is still determined to reconstruct at least as much as he can remember of the sequence. He begins, “So is...” His voice trails off as he thinks of where he should begin again. RIGHT, whose gaze has been shifting to LEFT and away from him now turns away and says, “Yeah, I'm I'm just drawing a blank on on on most of this one actually.” He continues to look up and then away as he speaks. He seems to be shaking his head in resolution that he just simply cannot remember, and there is little hope of that changing.

94-126 LEFT, despite RIGHT's lack of participation, continues with what he has set out to do. Not looking at RIGHT or eliciting any support from him, LEFT begins with the third letter, and talks

his way through number 12. He says, “Kay..so..number uh..th--three four and five is O S E, and I think six is blank, and then there might be another blank so 7 is A, 8 is G, 9 is F, 10 is H, 11 is C, 12 is, 12 is...W..oh...well I'm I'm I think there's two blanks after O S E.” He is basically talking to himself, and RIGHT is looking the other direction. At times, RIGHT seems to be looking in the direction of the investigator, possibly hoping that he would bring this session to a close. The only time RIGHT really looks at LEFT is when LEFT is at a loss for words. For example, when trying to come up with number 12, LEFT grapples for a bit before he remembers, and RIGHT looks at him. Again, when (in 118-124) LEFT is trying to decide how many blanks are after O S, RIGHT looks at him. However, when LEFT indicates that he wants RIGHT to say something, like in 123, RIGHT looks away, not being able to respond. On this occasion LEFT says, “well I'm I'm I think there's two blanks after O S E.” When he says E, LEFT looks at RIGHT to see if he agrees, or to get some kind of input from him. But RIGHT looks away, and then shakes his head in such a way that communicates that he has no idea but is willing to go along with it as he looks back in LEFT's direction.

127-146 At this point, LEFT begins to interact more with RIGHT. As he speaks, he looks at him, and even asks him questions. First, he says, “so the first one was yours was G?” and he points to him. RIGHT simply looks at him, not taking the obvious turn given him by LEFT. Because RIGHT does not answer, LEFT continues. Also, he remembers on his own, and does not need RIGHT to respond. He says, “No, the first letter was O,” and points to him as if to say that he's answering for him or that this is his letter. RIGHT, realizing that the pressure is off of him momentarily, looks away, uninterested. LEFT continues, however, despite RIGHT's seeming desire to stop. After LEFT says the next four letters, G O S and E, RIGHT looks away and sighs. LEFT is looking at RIGHT, wanting him to speak, but RIGHT really doesn't know how to respond. LEFT further explains his desire for LEFT to contribute something as he says, “that's five six seven is blank for me,” hoping RIGHT will fill in the blanks.

147-156 RIGHT, still looking away shakes his head, knowing he doesn't remember well but feeling forced to say something. He offers what helpful information he has, which is, “I don't remember. There's there's an X in there..at a at a there's I gotta blank blank X blank.” He ends looking at LEFT. While RIGHT is speaking, LEFT adjusts his glasses and says “kay...” evidently processing what RIGHT is saying. After RIGHT says he has an X, LEFT helpfully adds that he doesn't have an X in his. Indirectly he seems to be giving RIGHT credit for filling in one of the missing spaces.

157-158 There is a pause while LEFT looks at RIGHT and RIGHT looks away. RIGHT says, “but...” as if to say I have an X, but I don't know about anything else.

159-189 LEFT takes the turn again, having heard all that RIGHT has to offer. Most of the time he looks away, as he tries to finish the sequence. He decides that the blank must be an X, and continues, “nine ten eleven twelve thirteen fourteen is shh..well its its what I said before.” RIGHT smiles and nods at LEFT, who either cannot remember, or decides that there is no point in saying it again. LEFT, returning RIGHT's glance, laughs. RIGHT, looks from the investigator to his partner and back again and says, “this this is about it, huh.”





## Narrative transcript for Session 3, Sequence 1

1-2 After taking a moment to memorize the sequence of letters, the two women look at one another. The one on the left starts to say “okay,” to break the ice, but just as she softly says “o(kay?),” RIGHT says “well?” Her rising intonation seems to say, “well, what do you have?”

3 LEFT immediately realizes that her partner wants her to give the first letter. She nods slightly as she looks away and says “okay,” with a new intonation. Her tone of voice communicates that she understands RIGHT's wish for her to begin and that she is ready to give the first letter. Simultaneous to LEFT's nod and verbal confirmation, RIGHT points to LEFT with her thumb. It is possible that the woman on the RIGHT did not expect LEFT to understand her suggestion and take the turn so quickly. Thus, she may have pointed to give LEFT extra confirmation. However, since LEFT picks up on RIGHT's idea so quickly, the pointing seems superfluous, neither adding to nor taking from the communication process.

4 In the same breath the woman to the LEFT says “uh,” which buys her a second while she makes sure of the first letter.

5-6 She continues, saying, “the first letter is V.” As LEFT says the first letter, RIGHT closes her mouth, which was previously grinning widely. It could be that she is preparing to speak.

7-12 When RIGHT realizes that LEFT is done, she says “Okay, (the?)n it was X (a?)n(d?) H”. She gives a slight confirmatory nod on “X,” and a slightly more pronounced nod when she says “H,” probably to indicate that it is the final one.

13-15 LEFT takes this as an indication that it is her turn. She responds by looking away and then repeating “X H” given by the other woman. She repeats the two letters quickly, nodding to confirm that she has understood them and can fit them into the sequence she has memorized.

16-17 Then LEFT proceeds to supply the next two letters, Y and S. When she says “S,” she looks at RIGHT.

18-20 When LEFT looks at her, RIGHT realizes that she must speak. RIGHT looks up and blinks a few times as she thinks of the next letter. When she remembers (it doesn't take long) she looks directly at LEFT and says confidently, nodding as she says it, the letter P.

21-22 After RIGHT says P, LEFT looks away and seems to mouth the previous letters in an attempt to remember her next letter. When she remembers, she says “K,” nodding.

23-24 She pauses for a second and looks at RIGHT. Then she follows up with the letter F. The purpose of the pause could be to give her partner time to think through the letters she is giving. It also could be that she forgot the letter F until the last second and is adding it now as an after thought. This is less likely, however, because she says the letter so smoothly, not like she had almost forgotten to say it.

25-28 RIGHT looks up in the air in order to think. She then says “um, A F,” and looks over to LEFT.

29-31 Though RIGHT looks at LEFT, she does not give the turn to her immediately. Instead she offers two more letters, L and M. When RIGHT says L, LEFT looks away. It seems that although RIGHT's glance didn't give the turn immediately, it was preparing LEFT to contribute her letters.

32-34 After RIGHT is through, LEFT repeats her K and F from the previous turn. While she does this, she looks up for better concentration. She then leans her head a little closer to RIGHT and looking at her says, “what was after that?” Since RIGHT had said the last two letters (L and M), very softly, LEFT had probably not been able to hear her very well. The tilting of her head suggests that she had had trouble hearing her.

34.5 RIGHT looks away when she is called upon for information, and puts her hand out in order to start counting.

35-39 She begins to say the four letters over again, this time with more thought, to insure that she hadn't made any mistakes. She uses her hand to count, and looks at LEFT when she says L to prepare her for her turn. The woman on the left had already looked away after RIGHT said A and F. This may have been another source of confusion for LEFT, besides the possible hearing problem. RIGHT's letters (A and F) were so similar to LEFT's letters (K and F), that she may not have been sure if the two letters LEFT gave were new or repetitions of the old.

40-41 LEFT is looking up at the ceiling as RIGHT repeats these letters. Continuing to look up, she repeats the L and M, nodding her head slightly to confirm that the misunderstanding had been cleared up. She follows suit in counting. The fact that the two begin to count after this slight misunderstanding suggests that they are being purposefully more explicit in order to not have the problem again.

42-44 LEFT looks directly at RIGHT and says her last letters, T P and S. Her direct eye contact indicates confidence and further confirms that she has straightened out the confusion which had started in 33.

45-47 RIGHT looks away, taking the turn and thinking. She repeats the three letters given by her partner. The letter T is so soft that it is nearly imperceptible, but she does quickly form the stop closure on her way to the production of the letter P.

48-50 RIGHT pauses momentarily saying something between “uh” and “eh.” She quickly remembers however, saying O and R. She counts with her fingers on the O and R and then raises her hand in the air and opens it up. Her hand motion seems to emphasize the completion of the sequence.

51 RIGHT laughs after she finishes. It seems like a release of nervous tension. LEFT follows suit with RIGHT's hand motion and makes a sort of waving motion. Her wave seems to give credit to RIGHT for having said it correctly. It also concurs with RIGHT that they have reached the end.

52-53 Both the experimenter and the woman on the RIGHT voice their satisfaction, the former saying “all right,” and the woman, “that's it.”



## Narrative transcript for Session 3, Sequence 2

0 When the interviewer suggests that they begin whenever they are ready, LEFT looks up and then at RIGHT. She seems ready to begin. RIGHT, however, doesn't look up, but shifts her hand position and closes her mouth. LEFT looks away again. RIGHT's behavior indicates that she heard the interviewer, but is buying time to look at her card. When LEFT looks at her the second time, she starts making a motion to put her card down. Now LEFT doesn't move, and RIGHT pauses briefly, watching to see what LEFT is going to do. She brings her card back toward her, resting her elbow momentarily on the arm rest as she waits for LEFT to put her card down. LEFT, rather regretfully moves her card in the direction of the table, letting out a small groan. The two put their cards on the table, but RIGHT takes one last peek at hers before sitting back in her chair.

1-4 Having put her card down, RIGHT looks at LEFT with a grimace. LEFT looks up and begins to laugh, knowingly. RIGHT, perhaps feeling a need to explain her facial expression, says, "This one's eas(y) harder," correcting her speech. She looks away just after saying eas(y) when she realizes she has said the wrong word. She immediately comes back, though, with "harder," looking once again at LEFT. LEFT looks at her and then up in the air, agreeing with, "A little bit." Her intonation rises on "bit" which indicates that she really does think this one is harder.

5-8 As LEFT said "A little bit," she was looking up in the air. Now she brings her head down, and in a sweeping motion in which she ends up looking at RIGHT, she says, "Um O." Her voice rises on O as if to say, "and then comes..." Her intonation communicates to RIGHT that she is seeking information from her. RIGHT reads this signal and looks down into her lap. After just a brief pause she says, "S O." There is a slight hesitation as she says S, but her direct eye contact with LEFT following her contribution indicates that she is confident of her answer after all.

9-17 When RIGHT looks at her, LEFT looks away and then up in order to think of what comes next. RIGHT lifts her hand as if to count or maybe to help LEFT remember somehow by keeping the rhythm for her. LEFT makes two hesitation noises, "u(h)...u(h)," and then to spur her memory she reviews what has been said. As she says each letter she counts with her fingers. RIGHT also counts, less obviously. First LEFT says O with a drifting tone, and then almost imperceptibly adds the letter S. She comes out louder on the next O and then very confidently says S and E, nodding her head for further confirmation that she has remembered the letters correctly. She says E in a tone which seeks information from RIGHT, and then she looks at her.

18-26 RIGHT looks away and then says "X...", drifting her voice. She points the hand that she had been counting with straight out as she says her letter. The action seems to establish what she said as well conclude it. She looks at LEFT, and LEFT looks away. After thinking for a second, LEFT says, "A G F H C W," deliberately pausing between each letter. She countdsing on her fingers and raises the intonation on the last letter as she looks at RIGHT. She further gives the turn to RIGHT by closing her hands and resting them in a folded position.

27-33 RIGHT looks away and then says "L E B Y." When she says B she looks at LEFT, and her tone on Y is final, as if it is the last letter in the sequence. It is, in fact, her last letter. She looks as

if she is waiting for LEFT to supply the final letter. She further indicates this by straightening her hand out and pointing in LEFT's direction as she did when she said X.

34-35 When LEFT hears RIGHT's tone of voice on the letter Y, she opens her eyes widely and looks at her with an expression of surprise, as if she wasn't expecting the end so quickly. She had been trying to follow along with RIGHT's L E B Y by counting with her hands, but somewhere she miscounted. It is unclear what exactly her confusion is here.

36-42 LEFT looks at RIGHT and says, "oops," looking up in the air and laughing. She looks back at RIGHT, and RIGHT says "did we leave some out?" And then suddenly, as if she remembers some letters that she forgot, LEFT says "Oh no! We did leave some out." (In actuality, RIGHT was correct, but she thinks she forgot to say G and F, not realizing that they were a part of LEFT's sequence in 20-25.) LEFT tries to say something ("th") when RIGHT is speaking, but doesn't say it until RIGHT is through. Her thought must be that they forgot something, for she says, "There's something..." As if to say there is something missing, or there's something wrong, or there's something you forgot. She never really completes her thought, because RIGHT takes the turn.

43-49 RIGHT tries to correct her supposed error, saying, "um G F." She says G and F quickly and confidently nodding and looking at LEFT when she is through. LEFT looks away, says Z and looks back at RIGHT, thinking that Z is the last letter.

50-57 LEFT just sits there expressionless as RIGHT says, "ok L E B Y." She counts with her hand on the first two letters, but when she says B and Y, she relaxes her hand. She is unaware that they have misunderstood each other. LEFT looks away and says, "Wait," laughing. "I'm confused now." When RIGHT notices LEFT's hesitation she asks, "no?" basically saying, "that's not right either?" Then she apologizes, looking at LEFT for explanation. It seems that RIGHT was fairly confident of her L E B Y part, and is a little confused about what she has done wrong.

58-65 LEFT takes the turn by saying, "OK um." She looks down, and then back up at RIGHT. Kindly she asks her if she would like to start at the beginning again. RIGHT looks as if she would rather not start again, probably thinking it unnecessary or cumbersome, but concedes saying, "OK." Her intonation falls as she says this, as if her mother has just asked her to clean her room, and though willing to do it, she is not terribly happy about it. She does laugh, though, illustrating that she is a good sport.

66-79 They begin again, LEFT saying "O," and RIGHT "S O." LEFT says "S E," and RIGHT follows closely with "X." LEFT then says her long sequence, "A G F H C W." Each time one takes her turn she looks away, and when she finishes speaking she looks at the other to give her the turn. LEFT counts throughout this process in order to keep track of the letters.

80-88 When they get to this part, the trouble begins again. RIGHT pauses and looks away when LEFT says W. She then says "um G F," after pausing for a moment. She then looks at LEFT steadily until LEFT says a letter. It takes LEFT about 10 seconds to say anything. She sort of mumbles "G F, G F?" wrinkling her eyebrows slightly once. Then she says "E?" with a questioning tone, evincing her uncertainty. She looks at RIGHT, giving her the turn.

89-102 RIGHT looks away and says, "L E." She pauses and looks at LEFT. She puts her hand out straight as she has done before to give the turn to LEFT, but this time her lips are still moving as if she wants to say something else. In fact, her lips come together and she is just about to say the letter B, her next one, when LEFT breaks in with a Z. RIGHT, confused by this, says, "Oh, you had a Z in there?" She looks down at her lap, and mouths the sequence L E B Y. As RIGHT mouths these letters, LEFT shakes her head almost in disbelief that they are having such a hard time figuring this out. RIGHT, on the other hand, seems confident in her memory, but she can't figure out where LEFT's Z is fitting in. LEFT explains, "The last one I, I believe is Z." RIGHT looks at her, still confused, but says nothing.

103-112 LEFT goes on to explain, "On my card it was blank," and she begins counting. She starts that thought over, saying, "the last four were blank," and then realizing that isn't right either, starts for the third time, "Er, E blank blank Z." She stops counting and waits for RIGHT's response.

113-124 RIGHT looks away and says, "OK, did I have a blank? I had L E B Y." (She is probably considering the possibility that LEFT's Z was somewhere in the middle of her L E B Y.) Before she says Y, she looks at LEFT for confirmation. Along with the glance, she stops counting with her hand, and opens one toward LEFT. LEFT, following now, nods her head and says "Z." RIGHT repeats LEFT's Z, relieved, because this is what she thought should be there. They both say "OK," and laugh, looking very relieved.

125-136 LEFT looks at the experimenter hoping for confirmation that they are through, but doesn't get a response. She says, "Uuhhh. Maybe we're...not uh haven't gotten it yet...let's see..." Since LEFT had looked at RIGHT who didn't seem to make any effort to take the turn, she feels obligated to keep talking.

137-146 She continues, looking down in to her lap, her face flushing, "I think after I I had a whole string of them and then it was like blank...(looks up), E..blank E E Z." She says this sort of to herself, and she uses her hand to count. She then nervously runs her hand through her hair and returns it to her lap. Questioning herself, she says, "now is that right?"

147-162 Having looked at LEFT until she admits this confusion, RIGHT takes the turn. She talks her way through it as LEFT had done, marking each letter on her fingers. Starting at the beginning she says, "OK, I had a blank S O, two blanks, X, blank G...F...blank" and then she is stuck and looks up at LEFT with a smile on her face. She is right, incidentally, in her recitation, but this area with the G and F has gotten mixed up. It appears that she thinks she knows how the sequence should go, but as LEFT didn't like her L E B Y following her A F G H C W, RIGHT feels she should stick something in there. She stops counting with her hands, puts them in her lap and looks at LEFT, indicating that she is done with her turn.

163-184 LEFT takes the turn and says "All right." She wrinkles her brow in a very serious expression. Then she cracks a smile. RIGHT follows suit, saying "all right," as well. LEFT keeps the turn, however saying, "Let me let me try with the the str(ing) the string in the middle that I had it was it was just a whole bunch of them. (looks away) It was A (cough) G A(t) A..sorry..A G F H..C W." After LEFT says G F, RIGHT repeats these letters to herself, possibly placing it for the first time as a part of LEFT's string. It seems that she realizes now that she does not have to say

those letters again after LEFT says her six in a row. After LEFT says C, she looks at RIGHT directly and uses an intonation that seeks information from RIGHT when she says W.

185-196 RIGHT looks away now and says “OK, C W,” making a chopping, rhythmic motion with her hand. LEFT, thinking she is still confused tries to help, saying, “Does that make any sense to you?” LEFT quickly mouths the G and F, seemingly solidifying in her mind that they had those two in common, hence, she does not need to say them again. Then she says, “shall we start back at the beginning cause I'm getting lost in the middle.” LEFT agrees while RIGHT is still talking, saying, “Sure, we can try that again.”

197-219 Both say “OK” to make the transition. LEFT looks up and then on her way down in a nod, she says, “uh O...” eliciting RIGHT's next letter with her voice. RIGHT looks away and says “S O,” looking back at LEFT. LEFT looks away and says, “S E,” returning her glance to RIGHT. RIGHT looks away and says X and LEFT takes the turn looking away and says “A G F (RIGHT chants the F softly to herself,) H C W.” She stops counting on her hands and looks at RIGHT to give the turn to her. RIGHT looks away and repeats LEFT's W and adds her L and E, cautiously. She stops counting, and LEFT looks away.

220-223 RIGHT is being cautious here because she is still thrown by LEFT's initial displeasure when she said her L E B Y following LEFT's letters. To make sure she has not misunderstood LEFT, she asks, “Did you get four blanks?” It seems like she has allowed for the possibility that she has completely forgotten some letters that may have followed LEFT's long sequence. It is unclear. LEFT, however, reassures her, saying, “OK n no OK 'L E,' that makes sense...”

224-232 RIGHT continues, figuring her assumption must be correct (possibly knowing that she was correct the whole time,) saying, “O K then...then B Y.” LEFT and RIGHT both use their hands to keep their places. LEFT looks away when RIGHT finishes and then says, “Z.” RIGHT says this with confidence, and RIGHT says “OK,” and laughs, looking at LEFT. RIGHT also puts her hands in her lap, as if to emphasize that they are, if fact done. Both look relieved and happy.



## Narrative transcript for Session 4, Sequence 1

1 When the participants are done memorizing, there is tension while they decide who will go first. LEFT says “all right,” and looks away. LEFT probably realizes that RIGHT has the first letter, and is attempting to give RIGHT the turn. He probably assumes RIGHT will immediately offer his letter.

2 LEFT and RIGHT look at each other and RIGHT takes the turn given him by LEFT. However, instead of saying the first letter, RIGHT suggests that they step through the series.

3-5 RIGHT uses his right hand to emphasize his desire to go step by step through the series. The fact that he moves his hand in a smooth sweeping motion may indicate that he does not foresee any difficulties in repeating the string.

6-8 Before RIGHT finishes speaking, LEFT agrees that it would be a good idea, saying, “sure.” LEFT had probably intended to do this originally, and may be questioning the purpose of this verbose, preliminary explanation. The fact that LEFT agrees so readily to RIGHT's suggestion also indicates that he was already anticipating that RIGHT would begin.

9 LEFT says, “You start,” indicating that he knows that RIGHT has the first letter, since he (LEFT) has a blank. He cups his hands together and moves them toward RIGHT, as though physically handing him the turn. He seems to be saying, “The ball is in your court, go ahead.”

10 RIGHT looks away from LEFT, saying, “OK.” The expression on RIGHT's face plainly reveals that he accepts the turn. Perhaps RIGHT's reason for the preliminary discussion, centering on how to begin and who would begin, was that he had been allowing the possibility that LEFT had the first letter. He would not want to deprive LEFT of the opportunity to go first. In any case, both participants now know that RIGHT has the first letter, and that he must start.

11 Having reached an agreement, LEFT laughs and RIGHT smiles, moving his head from side to side as he grins.

12 RIGHT takes the turn after a brief period of laughter saying, “Kay.” He has just a faint glimmer of a smile left on his face, but his tone has definitely become more serious.

13 RIGHT offers the first letter, “L.” He speaks very slowly and deliberately, looking away from LEFT.

14 LEFT looks away briefly.

15 RIGHT continues with the second L. LEFT looks back at RIGHT. LEFT may be trying to establish eye contact with RIGHT, but it is more likely that he is simply trying to remember the order of the letters.

16-17 LEFT looks away again and then RIGHT says “U.”

18 When he finishes saying L L U, RIGHT turns and looks at LEFT, giving the impression that he is through.

19 LEFT, still looking away, hesitates slightly as he says S, the next letter. Although he seems a bit uncertain at first, he does not indicate that he wishes to correct himself.

20 RIGHT looks away, trying to think of what comes next. The act of looking away seems to help him concentrate. It also probably signifies that RIGHT realizes he must take the turn.

21 LEFT looks at RIGHT signaling that it is RIGHT's turn and confirming the fact that he does not wish to change his offer of the S.

22-25 RIGHT, again speaking slowly and systematically, says, "D Y E E."

26 When RIGHT is through, that is, when he arrives at a blank, he looks at LEFT and yields the turn to him.

27-28 LEFT looks at RIGHT for a second but then shifts his eyes away. Again he pauses because he cannot remember what comes next. There is tension as LEFT knows he has the turn, but does not know what to say.

29 LEFT turns his face away from RIGHT mumbling "wait a minute." He buys time with this utterance as well as explicitly communicates to RIGHT that he is confused.

30 LEFT continues to pause as he tries to remember. He mouths what appear to be the letters just given by RIGHT in an attempt to reorient himself.

31-32 LEFT begins to remember, and he holds his hand up in the air while saying "I'm sorry, OK." It looks as if his hand is acting as a place holder for the letters he is about to supply. This utterance acts as a topic shifter, and makes the transition between LEFT's memory lapse and his recovery. RIGHT has been looking at LEFT this entire time, which may have been a cause of some of LEFT's anxiety.

33-34 LEFT continues, buying just a little more time, saying, "Then the next letters are..." trailing his voice as he leads into the next portion.

35-36 LEFT begins with M and V and then looks at RIGHT. He looks as if he is gaining confidence.

37-38 LEFT offers the next two letters as well, K and F, still looking at RIGHT and counting on his hands. LEFT pauses slightly after the letter F, perhaps to think or possibly to allow RIGHT to catch up or to take the turn if he has anything to say.

39 When LEFT says F, RIGHT looks away repeating the letter and nodding in confirmation. It is obvious that RIGHT had this letter on his card and is reassuring LEFT that his contribution is correct.

40-41 Since RIGHT does not offer any more letters after confirming LEFT's F, LEFT supplies the next letters, W W. RIGHT looks at LEFT and then looks away when he realizes that he must speak.

42-44 RIGHT says the next two letters, N and G, and then he looks at LEFT, yielding the turn to him.

45 LEFT says E, with finality in his voice, pointing away with his hand to signify that it is the end of the sequence.

46 LEFT pauses, looking uncertain. RIGHT nods slightly with confidence, but notices LEFT is unsure, so softens his nod. The turn is up for grabs here, and both wait to see who will talk first. 47-50 LEFT looks away briefly and then back at RIGHT. He takes the turn, indicating that he is unsure, saying, "I wonder if that's the right number of letters."

51-55 RIGHT looks away, saying, "OK, let's try walking through that one more time." Again RIGHT moves his hand in a smooth sweeping motion as he did in 4. He makes a fairly long and obvious pause before the word "one" closing his eyes as he says it. Perhaps this suggests that RIGHT does not feel it is necessary to repeat the sequence. RIGHT is, however, willing to do it for LEFT's sake. RIGHT looks up at LEFT as he talks, establishing eye contact with him in this important transitional stage of the conversation, as the two conversants decide upon their next course of action.

56-59 RIGHT confirms that he didn't think it was necessary to go through it again by saying, "because it sounded right to me." LEFT looks away most likely because he is already thinking about how the beginning goes.

60 RIGHT looks away too, offering his last piece of evidence, "the spaces." That is to say, RIGHT thinks it was recited correctly because as far as he could tell all the blanks had been accounted for. (This implies that he believed that the letters given were correct as well.)

61 LEFT says "OK," meaning he wants to take RIGHT up on his offer to walk through the series again.

62-64 RIGHT rather abruptly begins with L L U after he is done explaining why he thinks it was said correctly. Perhaps he is hurried along by the tone of LEFT's "OK," which seemed to say that LEFT wanted to go through the string again, even though RIGHT was certain it was said correctly. RIGHT looks at LEFT when he says U to indicate that it is LEFT's turn.

65 Just slightly after RIGHT says U, LEFT repeats it and nods, confirming RIGHT's contribution. LEFT may have had this letter on his card too, or he may have simply remembered it from their first time through.

66-67 LEFT supplies S, the next letter, and then looks at RIGHT, signifying that it is his turn.

68 RIGHT looks away, thinking briefly, because he realizes his letters are next.

69-74 As RIGHT says D Y E E, LEFT looks away and scratches his side nervously. RIGHT looks at LEFT just before he gives the last letter in order to prepare LEFT to take the turn.

75 LEFT, buying time, says “um,” with a drifting tone.

76 Then he says, “M V,” hesitatingly.

77-78 RIGHT looks away, acknowledging that it is his turn, (most likely by the number of spaces LEFT filled, not by any explicit signal by LEFT.)

79-80 RIGHT says “K F,” with a tone that says, “and then comes...”

81 RIGHT looks at LEFT, yielding the turn to him.

82-84 LEFT repeats RIGHT's F and confidently supplies the next two letters, W W.

85 RIGHT looks away, possibly to concentrate better and to take the turn.

86-87 LEFT looks at RIGHT as RIGHT says, “N G.” the next two letters. RIGHT, done with his part, looks at LEFT and gives him the turn.

88 LEFT supplies the final E and RIGHT nods in confirmation. Both seem satisfied that the sequence was said correctly.

89 LEFT further displays his satisfaction with an exclamatory “hurrah, hurrah,” as session one comes to a close.

## Narrative transcript for Session 4, Sequence 2

0 At first, the two participants seem unsure about who should speak first. LEFT, who has the first letter, looks at RIGHT, but RIGHT doesn't look at him or respond immediately. LEFT takes this as a signal that RIGHT does not have the first letter and that he himself should begin.

1 LEFT introduces the sequence saying, "Start with O." As he says this, he makes a forward pushing motion with his arms slightly bent and his fists closed which seems to say "Let's begin." This action appears to be an attempt to add a little fun to the game; however, as there is little or no expression on LEFT's face, his joy is nearly imperceptible.

2 RIGHT looks away, not responding to LEFT's half concealed burst of youth and vitality. Instead, RIGHT concentrates on the subject at hand, which for him is coming up with the next two letters.

3 In a slow and deliberate tone, RIGHT adds the next two letters, S and O. As he speaks, LEFT averts his eyes, taking the turn and communicating a need for time to think.

4-5 LEFT now turns his head completely away and wrinkles up his face as he tries to remember the next letters.

6-7 Turning his head in RIGHT's direction once again, LEFT says "S E" He nods and points at RIGHT, evidently wanting RIGHT to speak. RIGHT looks away in order to concentrate better.

8 RIGHT supplies the next letter, an X.

9 RIGHT looks directly at LEFT when he is through giving his letter, probably to signal to LEFT that he can talk now.

10-14 LEFT looks away and takes the turn at RIGHT's glance. He begins counting with his hands as he says "H C." He looks at RIGHT and adds one more letter, F, but then corrects himself saying "No," and looking away. He indicates with his eyes that he still wants to speak.

15-20 Still counting with his hands rhythmically, LEFT corrects himself, saying, "A." He proceeds to say, "C F H C W," with his voice trailing off as he looks at RIGHT. What he does with his voice and his gaze seems to communicate to RIGHT that it is his turn.

21-22 RIGHT closes his eyes and pauses for about six seconds. He appears to notice that something is wrong, but does not identify it immediately.

23-27 RIGHT continues, saying, "L E B Y." When he is finished, he opens his eyes and looks at LEFT.

28 When LEFT contributes the last letter, he nods and looks at RIGHT confidently.

29 RIGHT, however, looks away, expressing dissatisfaction.

30-37 He comments, "There's something that didn't sound right in there to me. Let's try that again." As RIGHT says this he looks at LEFT like a parent looks at a child when disciplining him. LEFT agrees to do it over, and he looks away as if he is already reviewing the letters in his mind.

38-39 LEFT starts out with 0 and then looks at RIGHT.

40 RIGHT takes the turn and looks away briefly to concentrate.

41-42 When he is ready, RIGHT says the next two letters, S and O, the last of which LEFT repeats. LEFT seems to be confirming what RIGHT said when he repeats the O.

43 When RIGHT looks at LEFT, LEFT looks away, taking the turn. He is not ready to supply the next letters immediately, and pauses briefly.

44-46 LEFT utters the letter C, but then corrects himself saying "No, SE," with an emphasis on the S, to indicate that the C is being replaced with the S.

47-48 LEFT looks at RIGHT to signal that he is through, and RIGHT looks away momentarily. LEFT rather aimlessly drops his hand down toward his left foot which is resting on his right knee.

49-50 RIGHT supplies the next letter, X, with an even tone and looks steadily at LEFT. RIGHT's steady glare causes LEFT to look away and fidget nervously with the heel of his shoe. He appears to need just a bit of time to remember the next letters. He seems to feel pressured because RIGHT is looking at him.

51-53 LEFT says "A G F," and RIGHT nods in agreement when left says "F." RIGHT was listening particularly for the part where he noted the error in 30, and seems to be satisfied with the adjustment made by LEFT.

54-56 LEFT continues, looking at RIGHT and supplying H, C and W..

57-60 RIGHT, realizing that it is his turn, looks away and says, "L E B Y." With each letter LEFT nods in acknowledgement of RIGHT's contribution. LEFT may remember this part of the sequence from the first time through.

61 LEFT confidently supplies the final letter, Z, nodding.

62-66 RIGHT agrees, saying "Right." He then addresses the area of previous confusion saying "There's one I think you changed in there." His tone and eye contact reveal that he is looking for some type of recognition or clarification of the problem.

67 LEFT admits with a "Yeah," that he had changed a letter. He looks as if he might want to explain, but doesn't have the chance before RIGHT breaks in.

68 RIGHT quickly asserts, not wanting to sacrifice the turn, “That time around that sounded right to me.”

70 LEFT nods in agreement with RIGHT that he said the correct letters, and says “OK.” LEFT says OK in such a way that almost indicates he was looking for? comforted by? RIGHT's approval.

71-73 RIGHT, in a slightly parental, but friendly tone, says, “Let's run through it one more time.”

74 RIGHT laughs a bit nervously here. He may be uncomfortable with always directing the next move. LEFT grins knowingly, and seems to except RIGHT's leadership role.

75 To further evidence his acceptance, LEFT jumps right in with the first letter, O. There is absolutely no doubt by this time as to who starts the series, because both know that LEFT has the first letter.

76-77 LEFT looks at RIGHT. RIGHT accepts the turn and looks away.

78-79 RIGHT says, “S O.”

80 The two participants synchronize on the letter O, but RIGHT says it slightly louder and more forcefully than LEFT. LEFT seems to feel the need to say the letter O because he was confused the first time through the sequence when RIGHT said this letter.

81-82 In sort of a hand off fashion, RIGHT yeilds the turn to LEFT after the O. LEFT gives the next two letters, S E, without pausing.

83 As RIGHT says “X”, the next letter in the sequence, RIGHT looks away, acknowledging his turn to speak. He appears to be thinking ahead to the next part of the series which has always given him problems.

84-85 LEFT seems to start to say “F,” but ends up saying “hmm.” It comes out something like “effmmm.” He looks to the side, grimacing in concentration.

86 LEFT says the first letter, A, and half points half waves with his left hand. It seems to be no more than a nervous twitch, an offshoot of all the thought and energy which were being put into the production of the letter A.

87-88 RIGHT looks away, as he thinks through the sequence. LEFT comes up with the next letter, G.

89-90 RIGHT repeats the G, remembering this as the previous problem area. He nods in acknowledgement, agreeing that what LEFT said was correct.

91-92 LEFT contributes the next item, F, which RIGHT likewise acknowledges and repeats.

93-95 LEFT then says the last three items, getting a nod from RIGHT on all but the last one. Perhaps by now RIGHT is thinking of his coming letters, and forgets to nod.

96-99 RIGHT smoothly and confidently produces L E B and Y, moving his head in miniscule nods toward LEFT. They are sort of transitional nods in that they create a rhythm which LEFT continues in his turn.

100 LEFT confidently supplies the final letter in the sequence.

101 Both LEFT and RIGHT turn toward the experimenter and nod, signaling that they are through.

102-103 RIGHT ends the conversation smugly with, “yeh...(garble) we got it.”



**Table 1: Verbatim transcript for Session 1, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
1											
2				to		2:13:02	ok		to		
3							I guess you				
4							get to start				
5							hunh?				
6											
7			touch glasses	away	ok						
8				to	uh						
9					the first						
10					letter						
11			hands on lap		I had was						
12					V						
13							and then	up			
14							the	closed			
15							next two that	open/up			

**Table 1: Verbatim transcript for Session 1, Sequence 1**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
16								I had				
17								were				
18			counting					X and H				
19		nod			H				to			
20				away								
21			R hand up		and							
22			counting		then I had							
23			counting		Y and S							
24									up			
25								ok, and then				
26				to				I had P				
27				away	uh oh				to			
28					then I had							
29					a space							
30			R point to R		I had							
31					oh,							

**Table 1: Verbatim transcript for Session 1, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
32		H up		closed	no I didn't.						
33			L index pntto R	open/to	had one space	2:37:01	you had				
34							two spaces, right?				
35					I had						
36			L point to R		one space						
37				closed	ok						
38				open/up	so			scowling			
39					uh						
40				to			oh, all right	away			
41							you're right.	close			
42					<laugh>		<laugh>	to			
43			recap ges- tures		(I) was going						
44					uh-oh						
45					ok						
46					we both had a space						

**Table 1: Verbatim transcript for Session 1, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
47			counting	away	um						
48			fiddling w/ hands		<pause>						
49					mmm			close			
50					oh oh			open/away			
51								to			
52					now i've lost it						
53					maybe						
54					an L and						
55					then an						
56				to	M?						
57					Did you have an						
58					M?						
59			L scratch R arm				uhh, later on	away			
60							right.				
61							well I had				
62					oh oh						

**Table 1: Verbatim transcript for Session 1, Sequence 1**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
63							you wanna try	to			
64			hands up	away			and start over?				
65			counting				or would that help?				
66							ok, you start				
67			counting	to	V						
68			counting		X						
69			counting		H						
70							H				
71					Y						
72					S						
73							ok				
74							then P		counting		
75			counting	expectant							
76			L pntto R								
77							and then I had				

**Table 1: Verbatim transcript for Session 1, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
78							two blanks		R pntto L		
79							so you shoulda had				
80							those two let- ters				
81					I						
82				close	I did						
83				open/to	have something						
84					but I don't						
85					remember what						
86					it was now						
87					It was						
88					there was						
89			R 2 fngrs		2 letters						
90					and then						
91			R 2 fngrs		I had 2 more						
92					blank spaces						

**Table 1: Verbatim transcript for Session 1, Sequence 1**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
93								Right				
94								and then I had				
95								A		counting		
96								F		counting		
97			L wave									
98			L counting					and then L M	away	counting		
99					T			then	to			
100								there was a blank		counting		
101					T			T		counting		
102					P							
103								P		counting		
104								S		counting		
105					S							
106			R conduct					O and then		counting		
107			R conduct					R		counting		
108								So we're miss- ing				

**Table 1: Verbatim transcript for Session 1, Sequence 1**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
109			L 2 fngers up		So we're missing the							
110									away			
111			L 2fngers down		two middle							
112				down	uh							
113								right before	to			
114			L splayed	to	yeah			A and F				
115				closed	<mock cry>							
116					<laugh>			<laugh>				
117			R index on L thumb	open/ down	<pause>			<pause>	away	L out then back		
118									to			
119					So							
120			counting		V					counting		
121			counting		X			X		counting		
122			counting		H			H		counting		
123			counting		M					counting		



**Table 1: Verbatim transcript for Session 1, Sequence 1**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
124			counting		S					counting		
125			counting					P		counting		
126					mmm							
127					<pause>							
128								the P was a blank		hands up		
129								for you though				
130					m-hunh							
131								so the next two...				
132								oh those are the two				
133								that your having				
134								a hard time...?				
135					yeah							
136			L points	to	so and then							
137					what was the next?							

**Table 1: Verbatim transcript for Session 1, Sequence 1**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
138					you had?		A and	up	counting		
139							F	to			
140							After the P				
141							then there are two				
142							blanks				
143					blanks						
144							and then				
145							I had				
146							A		counting		
147							F		counting		
148				down			L		counting		
149							M		counting		
150					right						
151					so the						
152				close	two						
153				open	blanks i can't						

**Table 1: Verbatim transcript for Session 1, Sequence 1**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
154					remember						
155											
156					are the						
157				to	two						
158				away	blanks you had						
159							right.				
160					right...						



**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
0			L points to R	to R		6:32.20					
1							OK. I Start.	to L			1:21:01
2			L return to lap			6:33.25	O				
3	1:20:55				S O						
4								up			1:21:04
5							E				
6				away						wince	
7				to R	Eck. Oh.			scrunches			1:21:07
8					Did you have?			open, away			
9			L points to R		No, you must have	6:42.00					
10			L up, elbow on chair		Had another one		Wait a minute...				
11			L return to lap								

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
12								I had O		counting on fin- gers		
13								and then you had				
14					S				to L			
15								S		counting		
16					O							
17							6:47.05	O	away	counting		
18			counting on lap					'N I had...				
19							6:51.01	<laugh>			head toss back	
20	1:21:11		adjusts glasses					O 's O E				

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
21							and then theres	to L	thumb pointing to L		
22							a space				
23							right?				
24	1:21:16			away							
25					Yeah, I think						
26			counting		I had one space						
27					and then						
28	1:21:20		counting	to R	two spaces						
29			points to R		oow			up			1:21:29
30			points to R		<clicking noise>						
31							Right.				
32			points to R		the next one's X			to L	stops pointing		1:21:32
33					Do you have an X?						
34							No				
35					OK						

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
36							OK, then I had				
37							A		counting		
38		bites lip					F				
39							G				
40							H				
41							C				
42							W				
43											
44							Then I had a space		L palm up		
45	1:21:34			away	OK						
46			counting		I had a G F,						
47					a space						
48	1:21:40			to R	a C,						
49					a space			up, closed			1:21:48
50				away				open, to L			



**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
51							7:21:25	E		closes L		
52				to R				and then I had				
53				away				two spaces				
54				to R	then i had an		7:23:13			waves 2 fngrs		
55			counting		L							
56					E							
57					B							
58					Y							
59		shakes	R points to R									
60								Z				
61					OK		7:30:10					
62	1:21:52				<laughs>			<laughs>				
63			Lpoints to R		So							
64								OK				
65								so we had				
66									away			1:22:01

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
67								you had O	to L	R points to L		
68			L points to R									
69								Right?				
70								The ffff				
71							7:36:20	no, i had		R on chest		
72								No, I was O”				
73								Right				
74								and then you had...				
75								S then O				
76									away			1:22:08
77								Then I had S E				
78								I’m				
79								I’m confused now		drops R to lap		
80								I had O		counting		
81								<pause>				

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
82								OK		counting		
83								I had O	to L			1:22:19
84								then you had what?				
85					S O							
86								S O				
87								'n I had				
88									away			1:22:22
89								S E				
90								OK	to L			1:22:28
91								and then there was		R out palm up, palm closed		
92								a space				
93	1:22:22			away			8:00:29			R palm open		
94					<pause>			<pause>				
95			L point, palm up open	to R	So you had							

Table 2: Verbatim transcript for Session 1, Sequence 2

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
96			L closes		you had O							
97								O		R touches face		

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
98							well, I had O		R points to L		
99			L points at R		two blank...		and then one space				
100					OK						
101					So that would		So that would				
102			L points at R		have been S		have been yours				
103							Right				
104					and then you had						
105					an O again?						
106							And then I had O S E				
107			L partially closes	away	E...						
108			L rolls and points to R	to R	And then I had						
109					an X						
110							OK				
111							and then there was				

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
112								uh A		counting in air		
113								F				
114								G				
115								H				
116								C				
117								W				
118								and then				
119								I had a blank				
120				away								
121				closes								
122			counts	to R	O		8:29:00					
123			L slightly to R		F?							
124			L slightly to R		G?							
125			L returns to p@8:29		or O							
126			L slightly to R		G							

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
127			L slightly to R		F?							
128								I had A		counting		
129									away			1:23:00
130								I had		counting		
131								A				
132								G				
133								F				
134								H	to L			1:23:02
135								C				
136								W				
137			L counts									
138			L counts									
139					yeah							
140			counting		I had the G							
141					and the F							
142				away	and then a...							

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
143				to R				then a E				
144					OK, then I had a C							
145					<pause>			<pause>				
146					What was after yours?			and then I had				
147								one more blank though				
148					So it was after your C?			I think tha...				
149									away			1:23:21
150					Was that a blank?							
151												1:23:22
152								<to self> I had A F G				
153												
154								No I,				



**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
155								I had A		counting		
156								F				
157								G				
158								H				
159								C	to L			1:23:26
160								W				
161								all in		R slices across		
162			counting		<to self> H C W.			a row		R slices across		
163			points		OK, so							
164			L forms letter C		C		9:00:00					
165			L towards body		and then							
166			R forms letter W		W							
167			R return to lap, L out closed		and then I had							

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
168			counting		L							
169					E							
170					B							
171					Y							
172			L palm open, on side and pointing				9:08:00					
173												
174								Z				
175			L returns to rest		and then a blank.							
176					does that							
177					sound right?							
178								Well I, dis...			shakes	
179								...I'm				
180								kinda confused				
181								on this one	squint			
182								They're all...	to inv			

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
183								<to inv> can i talk				
184								<to inv> to you?				
185				to inv	<laughs>		9:17:08					
186				to R					to L			1:23:46
187								I mean				
188									to inv			
189								her blanks are				
190								I have them				
191								and what I have				
192								she's has a blank,				
193								right?				
194								so they all should be in...				
195												
196				to inv	No							

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
197					there might be				to L			1:23:55
198					some overlap							
199												
200									to inv			1:23:56
201					Right							
202												
203				to R	Right			Oh, I see			nods	
204								OK	to L			
205	1:23:52			closes	So							
206							9:31:00	OK,				
207								lets try	away			
208								that again				
209					I think there's							
210									to L			1:24:01
211				opens. to R	16 or 17 letters							
212				closes				OK, so there's...				

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
213				opens, to R				O is the first one				
214				closes	S O							
215				opens, to R				S E	closes, then to L			
216				closes								
217	1:24:01			half open	Eck,							
218				closes	uh wait							
219					(to self) S E							
220					X							
221				to R								
222								A F G				
223				away								
224								H				
225				to R								
226								C				
227					C			W				

**Table 2: Verbatim transcript for Session 1, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
228				away								
229					OK							
230					L							
231					E							
232				to R								
233					B							
234					Y							
235								Z				
236							9:54:00	OK, We got it				

**Table 3: Verbatim transcript for Session 2, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
1				to				to			
2					ok	0:40:00					
3								away			
4							what shall we do?				
5								to			
6					um						
7					my first one						
8					is a blank						
9					and						
10					then						
11					I've		L				
12							Y				
13							U				
14							blank				
15										smile	

**Table 3: Verbatim transcript for Session 2, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
16					ok						
17				away							
18					I have uh						
19					an eh...						
20				close	so						
21				open	the						
22				close	first one'd						
23				open/ away	be L						
24					then I have uh						
25								away			
26							L				
27				to			Y				
28							U	to			
29							were the first three				
30		nod					and then a blank.				



**Table 3: Verbatim transcript for Session 2, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
31		nod		away	ok						
32					so my second						
33					third						
34					fourth						
35					fifth and						
36					sixth						
37					are						
38					L						
39								away			
40					U						
41					S						
42				to	D						
43					Y						
44					<pause>						
45								to			
46					so						
47							so				

**Table 3: Verbatim transcript for Session 2, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
48							your second one is L?				
49							what did I say?				
50							L				
51							L				
52							U				
53		nod					blank				
54							D				
55							Y	away			
56							E	to			
57							E				
58					ok		that sound good?				
59					so						
60					thats the first eight?						
61							un-hunh				
62				away	ok						

**Table 3: Verbatim transcript for Session 2, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
63					and			away			
64					then						
65					uh						
66								to			
67							blank blank				
68				to	number n(ine)						
69							that's what			smile	
70					i have		i got				
71				away							
72					eight						
73					and nine						
74					were						
75					blank					end smile	
76				to	for me						
77							so after				
78							what we				

**Table 3: Verbatim transcript for Session 2, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
79		nod					just said?				
80							<sigh>	away			
81					so						
82					you must have						
83			clasped		eight						
84					and						
85					nine						
86					filled in.						
87							no.			shake	
88								to			
89							blank				
90							blank				
91								away			
92				away						?scowl	
93				to						?scowl	
94							letter				
95							letter				

**Table 3: Verbatim transcript for Session 2, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
96							blank	to			
97							blank				
98							N				
99							G				
100							blank				
101							is what I got				
102		nod									
103							So				
104							maybe				
105			on knees				they're blank.				
106							Maybe they don't				
107							have to be letters.				
108											
109				away			ok.				
110							ok uh				
111							<pause>				
111							I'm trying				

**Table 3: Verbatim transcript for Session 2, Sequence 1**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
112					to remember							
113					my number							
114					ninth one							
115					<laugh>							
116					nine ten							
117								oh. i didnt				
118								i didnt				
119								remember em by				
120								number.				
121									away			
122								ohh ohh Y				
123					number?							
124				to								
125								blank				
126			adjust glasses					<sigh>				

**Table 3: Verbatim transcript for Session 2, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
127			scratch nose				da da				
128							E E	to			
129							so that's eight.				
130							nine and ten are				
131							blank on mine.				
132				away							
133					ok.						
134					number nine						
135					was						
136					I believe						
137					I						
138				to	and number ten						
139					is V			close		shrug	
140							ok	to			
141					and number eleven						

**Table 3: Verbatim transcript for Session 2, Sequence 1**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
142				away	is C						purses R side of mouth	
143				to								
144				away	and number twelve is							
145									away			
146					F				to			
147					and number 13 is							
148					W							
149				to								
150					and number 14 is W							
151					and number 15 and							
152			pnt w/ index					N				
153					16 are blank							
154								N				



**Table 3: Verbatim transcript for Session 2, Sequence 1**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
155							G				
156											
157		nod			N						
158		nod			G						
159					and						
160					number		blank				
161					17 is						
162					E.						
163				away			ok				
164		smile			so can we						
165					reconstruct						
166					that?						
167					<laugh>						
168							did you	to investi- gator			
169							did you				
170							remember all that?				

Table 3: Verbatim transcript for Session 2, Sequence 1

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
171					we got it						
172					down on tape						
173				to			we went through it				
174							one time				
175							yes	to			

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
1			together on lap	R	my first letter	6:13:15		L	together on lap		
2					is						
3			raise Rhand								
4			form O with Rhand		O	6:14:05					
5			together onlap								
6							blank				
7				away		6:16:14					
8					kay						
9					so		so you				
10							get it				
11							G				
12					zero						
13					and then I had						

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
14					a blank						
15				R		6:19:12					
16							G				
17				away	sss	6:21:23					
18						6:22:07	F	away			
19			counting with Lhand		then third	6:23:23			rub Leye with L		
20					would be O				return to lap		
21											
22					fourth is S						
23											
24					fifth is E						
25				R		6:28:12					
26				away		6:30:19					
27			return to lap		then its a	6:31:23					
28				R	blank	6:32:01					

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
29						6:38:25		L			
30					do you know		X				
31		nod		away	kay	6:41:06					
32						6:41:29		away			
33						6:42:22	and a blank	L			
34					kay um						
35						6:49:19		away			
36					A						
37					G						
38						6:54:20		L			
39						6:56:15	hhhh	away			
40										shakes head	
41					and then I						
42					don't know						
43							I'm just drawing				
44							a blank				

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
45							7:03:01	on this	L			
46								now				
47					kay							
48							7:05:23		away			
49					A							
50					G							
51												
52					and the one I							
53					I'm skipping I							
54					don't know		7:09:03		L			
55							7:10:14		away			
56					and then there's							
57					H							
58					C							
59				R	W		7:22:06					
60					and then I have							
61					two blanks so							

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
62					that the number						
63			touch index fin- gers		15 and 16						
64											
65					there's 17 total						
66			count on finger		15 and 16 is blank						
67											
68					can you remem- ber						
69			small hand motion in lap		the three on the end						
70											
71			downward jab with R		Z						
72				away	is the very	7:36:10					
73				R	end	7:38:18					
74					the						

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
75			downwar d jab with R		very		no				
76					last letter						
77							they were there				
78							but I don't				
79							remember them				
80						7:41:20		L			
81				away		7:42:13					
82						7:44:02		away			
83					so is						
84						7:46:17		L			
85						7:49:05		away			
86							yeah				
87							i'm i'm just				
88							drawing a blank				
89						7:51:15	on on	L			
90							on most of this				



**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
91							7:53:17	one	away			
92							7:54:07	actually	L			
93												
94					kay							
95							7:57:20		away			
96			fist with L		so							
97			relax L		number		7:59:24		L			
98					uh th--three four							
99					and		8:03:11		away			
100					five is							
101					O							
102					S							
103					E							
104					and I think six							
105			counting on R		is blank and							

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
106					then there might						
107					be another blank so						
108					7 is A						
109					8 is G						
110					9 is F						
111					10 is H						
112					11 is C						
113					12 is						
114						8:47:15		L			
115					12 is	8:48:28		away			
116					W						
117			fist with R								
118			rubs chin with L		oh						
119						8:57:09		L			
120					well i'm i'm						

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
121					I think there's two						
122			points away with L		blanks after O S						
123				R		9:01:24					
124			fist with L		E						
125						9:03:22		away			
126						9:04:15		L			
127					so the first one						
128			points to R		was yours was G						
129											
130			points to R		no the first letter						
131					was O						
132						9:10:23		away			
133					G is f(?)						

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
134			counts on R		is two							
135							9:14:04		L			
136					O							
137					S							
138					E							
139							9:15:27		away			
140					that's five six seven							
141					is blank for me							
142			L on knee									
143			gesture with R		i'm just trying to help							
144			R in lap		you think of where you're							
145					at when when I tell							
146					you blanks							

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
147							i don't remember				
148							there's there's an				
149							X in there				
150						9:35:16		L			
151			adjusts glasses with L				at a at a				
152					kay	9:38:11	there's	away			
153					there's no X in mine		I gotta				
154							blank blank				
155						9:40:15		L			
156							X blank				
157						9:46:06		away			
158						9:49:11	but	L			
159					ok the one						
160				away		9:51:21					

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
161					blank i(s)						
162					must be an X						
163											
164					so it's seven						
165					or eight is an						
166				R	X	9:55:14					
167				away		9:57:27					
168			counts on R		nine						
169					ten						
170					eleven						
171					twelve						
172					thirteen						
173						10:00:05		away			
174					fourteen						
175						10:04:24		L			
176					is	10:07:03		away			

**Table 4: Verbatim transcript for Session 2, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
177					sh(?)						
178					well its						
179						10:12:15		L			
180					its						
181					what I said						
182				R							
183					before						
184						10:15:03		away		nods	
185						10:16:15		L			
186					(laughs)	10:17:09	thi(s) this is	away			
187						10:18:01	about it	L			
188						10:18:26	huh	away			





**Table 5: Verbatim transcript for Session 3, Sequence 1**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
1											
1				to				to			
2							well?				
3				away	ok				R pntto L		
4					uh						
5					the first letter						
6				to	is V						
7							ok				
8							then	away			
9							it was				
10							X	to			
11							(a)n(d)				
12							H				
13				away							
14		nod			X						

**Table 5: Verbatim transcript for Session 3, Sequence 1**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
15		nod			H						
16					Y						
17				to	S						
18								away			
19							uh				
20							P	to			
21				away							
22					K						
23				to							
24					F						
25								away(up)			
26							um				
27							A				
28				away			F				
29								to			
30							L				
31							and M				

**Table 5: Verbatim transcript for Session 3, Sequence 1**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
32					(K F)						
33				to	what was after						
34					that?			away	R hand out		
35							A		counting		
36				away			F		counting		
37							L	to	counting		
38							and				
39							M		counting		
40			counting		L						
41			counting		M						
42			counting	to	T						
43			counting		P						
44			counting		S						
45								away			

**Table 5: Verbatim transcript for Session 3, Sequence 1**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
46							P		countin g		
47							S		countin g		
48							uh				
49							O	to	countin g		
50							R		countin g		
51		nod	L waves				<laughs>				
52											
53							that's it.				

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
1	11:18:33		apart on lap	up			This	out	together on lap		11:18:31
2							one's eas(y)	L			11:18:31
3	11:18:34			R			harder				
4	11:18:35			up	A little bit		(laughs)				
5					um						
6	11:18:36			R	O						
7			together on lap				um S	out/down			11:18:34
8							O	L			11:18:37
9	11:18:40			out/up							
10	11:18:41			out	u(h) u(h)				lift R towards L		
11											

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
12			counting		O						
13					S						
14					O						
15		nods head			S						
16					E						
17	11:18:45			R				out			11:18:42
18							X		downward jerk with R		
19	11:18:46			out				L			11:18:44
20			counting		A				counting with R		
21					G						
22					F				half-close hand		
23					H						
24					C						
25	11:18:55			R	W						

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
26			together on lap								
27								out			11:18:54
28			open				L				
29	11:18:59			out							
30			counting				E				
31							B	L			11:18:57
32							Y		open R / extend L		
33			stop counting								
34	11:19:02			R							
35	11:19:03			out/up							
36	11:19:05			R	Oops (laughs)			out			11:19:03
37							did we l(eave) leave				
38					(clear throat)		some out				
39							oh no we				
40					l(eave)		did				

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
41							leave some out				
42					leave something						
43							um				
44	11:19:10			out							
45	11:19:11			R			G		extend R		
46							F	L			11:19:08
47	11:19:11			out							
48		nods head			Z						
49	11:19:12			R							
50							ok L		choppin g		
51							E				
52							B		return to lap		
53	11:19:15			out			Y				
54					wait (laughs)						
55	11:19:17			R	I'm		no				



**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
56		leans forward			confused						
57	11:19:18	leans back		out	now		I'm sorry	out			11:19:16
58					OK um			L			11:19:16
59											
60	11:19:21			R	Do you want to						
61					start at the beginning						
62					again or						
63								out			11:19:20
64							(laughs)	L			11:19:20
65							ok	out			11:19:21
66			counting		O						
67								L			11:19:22
68								out			11:19:24
69							S		choppin g		
70	11:19:28			out			O	L			11:19:25

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT					
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME	
71		nods head	counting (cont.)		S E							
72	11:19:30	nods head		R			X					
73	11:19:31			out								
74		nods head				A						
75							G					
76							F					
77							H					
78						C						
79	11:19:38			R		W		out			11:19:35	
80							um					
81							G					
82	11:19:43		out				F					
83								L		11:19:41		
84					GF							
85					GF							
86												

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
87			counting (cont.)		E				R in to lap		
88	11:19:56			R							
89								out			11:19:55
90							L				
91							E	L			11:19:56
92	11:19:58			out							
93	11:19:59			R							
94					Z				extend R		
95			open								
96		shake head									
97							now you get a	out			11:19:58
98							Z in there				
99			waving		The last one I						
100								L			11:20:01
101					I believe is Z						
102											

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
103					On my			out			11:20:04
104					card it was						
105			counting		blank			L			11:20:04
106			R open palm down		the last four						
107			counting		were blank						
108	11:20:09			out	all right						
109	11:20:10			R	E						
110					blank blank Z						
111											
112			open								
113								out			11:20:09
114							ok they have (??)				
115							I had				
116							L		choppin g		
117							E				

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
118							B				
119								L			11:20:14
120							Y		stop choppin g		
121		nods head	open and extend to R		Z		Z		open up and extend to L		
122			together on lap		OK		ok		return to lap		
123											
124					(laughs)		(laughs)				
125	11:20:20			out							
126								out			11:20:18
127		turns head out									
128					uh						
129					maybe we're						
130		turns head in									

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
131								L			11:20:20
132	11:20:22		open	R	not uh haven't						
133	11:20:24			out	gotten it yet						
134											
135					let's see						
136											
137					I think after						
138			lift hands		I I had a						
139			wave L		whole string of						
140					them and them it						
141					was like						
142			chopping		blank						
143			stop chop- ping		E blank E E Z						
144			runs hand through hair								
145			return to lap								

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
146			open		now is that right						
147								out			11:20:43
148							ok I had a blank		counting		
149							S O				
150	11:20:48			R							
151							two blanks				
152			counting				X				
153							blank				
154			stop count- ing				G				
155								L			11:20:56
156							F				
157								out			11:20:58
158							blank				
159									stop counting		
160									return to lap		

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
161		lean forward									
162	11:21:08			out				L			11:21:05
163					all right						
164					let me		all right				
165					let me						
166					try with the the						
167					str(ing) the string				adjust glasses		
168					in the				R in hair		
169	11:21:13			R	middle						
170					that I had						
171					it was it was				return to lap		
172			open wide		just a whole						
173			together		bunch of them						
174	11:21:16			out							



**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
175			counting		it was A						
176					(clears throat)						
177					G a(tch) a(tch)						
178					sorry						
179					A G F H						
180							G F				
181					C						
182	11:21:29			R							
183					W						
184											
185								out			11:21:28
186							ok				
187					does that make any		C W		choppin g		
188					sense to you						
189							G F				

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
190								shall we start		extend R down and L		
191								back	L			11:21:34
192								at the beginning				
193			close		sure			cause I'm				
194								getting lost in				
195	11:21:38			out	we can try			the middle				
196					that again					return to lap		
197								ok				
198	11:21:40			up	ok							
199	11:21:40			R	uh O					choppin g		
200									out			11:21:38
201								S				
202								O				
203									L			11:21:40
204	11:21:42			out								

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
205					S						
206	11:21:44			R	E						
207								out			11:21:42
208	11:21:46			out			X	L			11:21:43
209			counting		A						
210					G						
211					F		F				
212					H						
213	11:21:52			R	C						
214					W						
215								out			11:21:52
216							W				
217							L	L			11:22:01
218							E		stop choppin g		
219	11:22:04			out							

**Table 6: Verbatim transcript for Session 3, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
220								Did you get four blanks		extend R to L		
221					OK n(o) n(o) OK							
222			L point R		L E that makes							
223					sense							
224								ok then				
225	11:22:10		L point R	R								
226			together in lap									
227								then B Y		choppin g		
228	11:22:12			out								
229	11:22:13		waves L	R	Z							
230	11:22:14			out				ok	out	return to lap		11:22:11
231								(laughs)	L			11:22:12
232									out			11:22:12

**Table 7: Verbatim transcript for Session 4, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
1											
1	3:14:08			away	alright			away			3:14:00
2	3:14:09			R			shall we just	L			3:14:01
3							try				
4							walking through		R wave		
5							the series?				
6					sure						
7							and				
8		nod					see how far				
9							we c(a)n get?				
10			L+R pntto R		you start		m:				
11			L+R to legs				ok	away		away	3:14:05
12					(laughs)						
13							ok				

**Table 7: Verbatim transcript for Session 4, Sequence 1**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
14							L				
15	3:14:16			away							
16	3:14:17			R			L				
17	3:14:18			away							
18							U			to	
19								L			3:14:10
20					S						
21								away			3:14:12
22	3:14:20			R							
23							D				
24	3:14:23			away			Y				
25							E				
26							E				
27								L			3:14:20
28		away									
29	3:14:26			R							
30	3:14:27			away	(pause)		(pause)				

**Table 7: Verbatim transcript for Session 4, Sequence 1**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
31					umm							
32					(pause)			(pause)				
33			L out		(i?)m sor(ry?)							
34					ok							
35					then the next							
36					letters are							
37			counting w/hand		M							
38	3:14:41	to	counting w/hand	R	V							
39			counting w/hand		K							
40			counting w/hand		F							
41								:F	away		nod	
42			counting w/hand		W				L			
43			counting w/hand		W				away			
44								N				
45								G				

**Table 7: Verbatim transcript for Session 4, Sequence 1**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
46									L			
47			counting w/hand		E							
48					(pause)							
49	3:14:50			away then R	I wonder if							
50					thats the							
51		away then to			right number							
52					of letters?							
53								ok	away			
54								lets try				
55								walking through that				
56								one more		R wave		
57								time	L	R grasp L wrist		
58								because				
59								I think it				
60								it sounded right				



**Table 7: Verbatim transcript for Session 4, Sequence 1**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
61	3:14:55	nod		away				to me				
62								(a)ll the spaces	away			
63					ok							
64								L				
65								L				
66								U	L			
67					:U							
68					S							
69	3:15:01			R								
70									away			
71								D				
72								Y				
73	3:14:04			away								
74								E				
75									L			
76								E				

**Table 7: Verbatim transcript for Session 4, Sequence 1**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
77		away	R scratch L torso									
78					um							
79					M							
80					V							
81									away			
82								K				
83								F				
84									L			
85					:F							
86					W							
87					W							
88									away			
89	3:15:19	to		R				N				
90								G	L			
91					E							
92											nod	

Table 7: Verbatim transcript for Session 4, Sequence 1

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
93					hurrah hurrah						



**Table 8: Verbatim transcript for Session 4, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
0				to							
1	3:17:41		wave LR down		Start with O	7:26:19		to			3:17:33
2								away			
3				away			S O				
4		face away				7:33:17		to			
5											
6					S						
7	3:17:49	face to		to	E			away			
8							X				
9								to			
10			L counting	away	H						
11				to	C						
12								away			
13					F						
14			L thumb back	away	No						

**Table 8: Verbatim transcript for Session 4, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
15			counting with thumb		A (!)						
16				to	C						
17					F						
18			counting w/hands		H						
19					C						
20					W						
21								close			
22					<pause>	7:46:11	<pause>				
23						7:52:06	L				
24							E				
25				away			B				
26							Y				
27								open, to			
28				to	Z	7:54:21					
29								away			
30							There's some-thing				

**Table 8: Verbatim transcript for Session 4, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
31							that didn't				
32							sound right	to			
33							in there				
34							to me.				
35				away							
36							Let's try				
37							that again.				
38					O	7:59:10					
39				to							
40								away			
41							S				
42					O		O				
43				away				to			
44					C						
45					No						
46					SE						
47				to							

**Table 8: Verbatim transcript for Session 4, Sequence 2**

EVENT #	LEFT						SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
48			R down						away			
49								X				
50			R fiddles w/shoe	away					to			
51					A							
52					G							
53					F						nods	
54				to	H							
55					C							
56					W							
57		nod						L	away			
58		nod						E				
59		nod						B				
60		nod						Y	to			
61					Z		8:23:15					
62								Right.				
63								There's one				



**Table 8: Verbatim transcript for Session 4, Sequence 2**

EVENT #	LEFT					SMPTE CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
64							that I think				
65							you changed				
66							in there.				
67					Yeah						
68				away			That time around				
69				to			That seemed right to me.				
70		nod			OK						
71							Let's				
72							Let's run through				
73							it one more time.			smiles	
74	3:18:47	smiles		away			<laughs>				
75					O	8:32:09					
76				to							
77								away			

**Table 8: Verbatim transcript for Session 4, Sequence 2**

EVENT #	LEFT						SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL			VERBAL	EYES	HANDS	FACE/ BODY	TIME
78								S				
79								O				
80					O							
81					S							
82					E							
83	3:18:52			away				X				
84					eff							
85									to			
86			waves L		A							
87									away			
88					G							
89												
90								g(ee)				
91				to	F							
92								F				
93					H						nods	
94					C						nods	

**Table 8: Verbatim transcript for Session 4, Sequence 2**

EVENT #	LEFT					SMPT CODE	RIGHT				
	TIME	FACE/ BODY	HANDS	EYES	VERBAL		VERBAL	EYES	HANDS	FACE/ BODY	TIME
95					W						
96							L				
97							E				
98							B				
99							Y	to			
100					Z	8:50:00					
101		nod		away		8:50:26		away		nods	
102							yeh...				
103							th... we got it.				



**Table 9: Gaze/Turn pattern for Session 1, Sequence 1**

event#	L verbal	L eyes	R eyes	R verbal
2		>	<	start
5				stop
7	start	<		
8		>		
12	stop			
13			>	start
18				stop
19	start		<	
20		<		
23	stop			
24			>	
25				start
26		>		stop
27	start	<	<	
33	stop	>		start
34				stop
35	start			
37		<		
39	stop			
40		>	>	start
41				stop
42			<	
43	start			
47		<		
49			>	

**Table 9: Gaze/Turn pattern for Session 1, Sequence 1**

event#	L verbal	L eyes	R eyes	R verbal
50	stop			
51			<	
52	start			
56		>		
58	stop			
59			>	start
61				stop
62	start/stop			
63			<	start
64		<		
66				stop
67	start	>		
69	stop			
70				start/stop
71	start			
72	stop			
73				start
74				stop
75				
77				start
80				stop
81	start			
82		<		
83		>		
92	stop			
93				start

**Table 9: Gaze/Turn pattern for Session 1, Sequence 1**

event#	L verbal	L eyes	R eyes	R verbal
96				stop
98			>	start
99	start/stop		<	
101	start			stop
102	stop			
103				start
104				stop
105	start/stop			
106				start
108				stop
109	start			
110			>	
112	stop	<		
113			<	start
114	start/stop	>		stop
115		<		
117			>	
118			<	
119	start			
121				start
122				stop
124	stop			
125				start/stop
126	start/stop			
128				start
129				stop

**Table 9: Gaze/Turn pattern for Session 1, Sequence 1**

event#	L verbal	L eyes	R eyes	R verbal
130	start/stop			
131				start
134				stop
135	start			
136		>		
138	stop		>	start
139			<	
142				stop
143	start/stop			
144				start
148		<		
149				stop
150	start			
154	stop			
156	start			
157		>		
158		<		
159				start/stop
160	stop			



**Table 10: Gaze/Turn pattern for Session 1, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal	comment
0		>	>		
1			<	start	
2				stop	
3	start/stop				
4			>		
5				start/stop	
6		<			
7	start	>			
10	stop			start	
13				stop	
14	start/stop		<		
15				start/stop	
16	start/stop				
17			>	start	
21			<		
23				stop	
24		<			
25	start				
28		>			
29	stop		>		
31				start/stop	
32	start		<		
33	stop				
34				start/stop	
35	start/stop				

**Table 10: Gaze/Turn pattern for Session 1, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal	comment
36				start	
44				stop	
45	start	<			
48		>			
49	stop		>		
50		<			
51				start	
52		>			
53		<		stop	
54	start	>			
58	stop				
60				start/stop	
61	start				
63	stop				
64				start	
66			>		
67			<		
74				stop	
75	start/stop				
76			>		
77				start	
83			<		
84				stop	
85	start/stop				
86				start	
88			>		

**Table 10: Gaze/Turn pattern for Session 1, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal	comment
90			<		
92				stop	
93		<			
95	start	>			
96	stop				
97				start	
99	start			stop	
101				start	
102	stop				
103				stop	
104	start				
105	stop				
106				start/stop	
107	start	<			
108		>			
109	stop				
110				start	
119				stop	
120		<			
122	start	>			
127	stop				
128				start	
129			>		
134			<		
136				stop	
139	start				

**Table 10: Gaze/Turn pattern for Session 1, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal	comment
142	stop	<			
143		>		start/stop	
144	start/stop				
146	start/stop			start	
148	start			stop	
149			>		
150	stop				
152				start	
159			<		
162	start			stop	
171	stop				
174				start/stop	
175	start				
177	stop				
178				start	
182			>		/* to interviewer */
184				stop	/* to interviewer */
185		<			/* to interviewer */
186		>	<		
187				start	
188			>		/* to interviewer */
194				stop	
196	start	<	<		/* to interviewer */
197					
198	stop				
200			>		/* to interviewer */

**Table 10: Gaze/Turn pattern for Session 1, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal	comment
201	start/stop				
203	start/stop	>		start	
204			<	stop	
205	start/stop	<			
206				start	
207			>		
208				stop	
209	start				
210			<		
211	stop	>			
212		<		start	
213		>		stop	
214	start/stop	<			
215		>	>		
215			<	start/stop	
216		<			
217	start				
220	stop				
221		>			
222				start	
223		<			
225		>			
227	start			stop	
228		<			
232		>			
234	stop				

**Table 10: Gaze/Turn pattern for Session 1, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal	comment
235				start	
236				stop	

**Table 11: Gaze/Turn pattern for Session 2, Sequence 1**

event #	L verbal	L eyes	R eyes	R verbal	comments
1		>	<		
2	start/stop				
3			>		
4				start/stop	
5			<		
6	start				
11	stop			start	
14				stop	
16	start				
17		<			
24	stop				
25			>		
26				start	
27		>			
28			<		
30				stop	
31	start	<			
38	stop				
39			>		
40	start				
42		>			
43	stop				
45			<		
46	start/stop				
47				start	

**Table 11: Gaze/Turn pattern for Session 2, Sequence 1**

event #	L verbal	L eyes	R eyes	R verbal	comments
55			>		
56			<		
58	start			stop	
60	stop				
61				start/stop	
62	start	<			
63			>		
65	stop				
66			<		
67				start/stop	
68	start/stop	>			
69				start	
70	start			stop	
71		<			
76	stop	>			
77				start	
80			>	stop	
81	start				
86	stop				
87				start	
88			<		
90				stop	
91			>		
92		<			
93		>			
94				start	



**Table 11: Gaze/Turn pattern for Session 2, Sequence 1**

event #	L verbal	L eyes	R eyes	R verbal	comments
96			<		
107				stop	
108	start				
109		<			
116	stop				
117				start	
121			>		
122				stop	
123	start/stop				
124		>			
125				start	
128			<		
131				stop	
132		<			
133	start				
138		>			
139	stop		>		
140			<	start/stop	
141	start				
142		<			
143		>			
144		<			
145			>		
146			<		
149		>			
152				start/stop	

**Table 11: Gaze/Turn pattern for Session 2, Sequence 1**

event #	L verbal	L eyes	R eyes	R verbal	comments
153	stop				
154				start	
155				stop	
157	start				
160				start/stop	
162	stop				
163		<		start/stop	
164	start				
166	stop				
168			>	start	/* to investigator */
170				stop	
171	start				
172	stop				
173		>		start	
175			<	stop	

**Table 12: Gaze/Turn pattern for Session 2,  
Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
1	start	>	<	
4	stop			
6				start/stop
7		<		
8	start			
9	stop			start
11				stop
12	start			
14	stop			
15		>		
16				start/stop
17	start/stop	<		
18			>	start/stop
19	start			
24	stop			
25		>		
26		<		
27	start			
28	stop	>		
29			<	
30	start			
31	stop	<		
32			>	
33			<	start/stop
34	start			

**Table 12: Gaze/Turn pattern for Session 2,  
Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
35			>	
37	stop			
38			<	
39			>	start/stop
41	start			
42	stop			
43				start
45			<	
46				stop
47	start			
48			>	
54			<	
55			>	
59		>		
72		<		
73		>		
75				start/stop
76	stop			
77				start
79				stop
80			<	
81		<		
82			>	
83	start/stop			
84			<	
85			>	

**Table 12: Gaze/Turn pattern for Session 2,  
Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
86				start
89			<	
91			>	
92			<	stop
94	start			
95			>	
97			<	
99			>	
114			<	
115			>	
119			<	
123		>		
125			>	
126			<	
131			>	
135			<	
139			>	
146	stop			
147				start
150			<	
152	start		>	
153	stop			
155			<	
157			>	
158			<	stop
159	start			

**Table 12: Gaze/Turn pattern for Session 2,  
Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
160		<		
166		>		
167		<		
173			>	
175			<	
176			>	
178	stop			
179			<	
180	start			
182		>		
183	stop			
184			>	
185			<	
186			>	start
187			<	
188			>	stop

**Table 13: Gaze/Turn pattern for Session 3, Sequence 1**

event #	L verbal	L eyes	R eyes	R verbal
1		>	<	
2				start/stop
3	start	<		
6	stop	>		
7				start
8			>	
10			<	
12				stop
13		<		
14	start			
17	stop	>		
18			>	
19				start
20			<	stop
21		<		
22	start			
23		>		
24	stop			
25			>	
26				start
28		<		
29			<	
31				stop
32	start			
33		>		

**Table 13: Gaze/Turn pattern for Session 3, Sequence 1**

event #	L verbal	L eyes	R eyes	R verbal
34	stop		>	
35				start
36		<		
37			<	
39				stop
40	start			
42		>		
44	stop			
45			>	
46				start
49			<	
50				stop
53				start/stop



**Table 14: Gaze/Turn pattern for Session 3, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
1		<	>	start
2			<	
3		>		stop
4	start	<		
6	stop	>		
7			>	start
8			<	stop
9		<		
10	start			
16	stop			
17		>	>	
18				start/stop
19		<	<	
20	start			
25	stop	>		
27			>	
28				start
29		<		
31			<	
32				stop
34		>		
35		<		
36	start/stop	>	>	
37				start
40	start/stop			

**Table 14: Gaze/Turn pattern for Session 3, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
41				stop
42	start/stop			
43				start/stop
44		<		
45		>		start
46			<	stop
47		<		
48	start/stop			
49		>		
50				start
53		<		stop
54	start			
55		>		start
57		<	>	stop
58			<	
60		>		
62	stop			
63			>	
64			<	
65			>	start/stop
66	start/stop			
67			<	
68			>	
69				start
70		<	<	
71	start/stop			
72		>		

**Table 14: Gaze/Turn pattern for Session 3, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
73		<		
74	start			
79	stop	>	>	
80				start
82		<		stop
83			<	
84	start			
87	stop			
88		>		
89			>	
90				start
91			<	stop
92		<		
93		>		
94	start/stop			
97			>	start
98				stop
99	start			
100			<	
103			>	
105			<	
108		<		
109		>		
110	stop			
113			>	
114				start
118				stop

**Table 14: Gaze/Turn pattern for Session 3, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
119			<	
120				start
121	start			
122	stop			stop
125		<		
126			>	
128	start			
129	stop			
131			<	
132	start	>		
133		<		
143	stop			
146	start/stop		>	
148				start
150		>		
155			<	
157			>	
158				stop
162		<	<	
163	start			
164				start/stop
169		>		
173	stop			
174		<		
175	start			
180				start/stop
182		>		

**Table 14: Gaze/Turn pattern for Session 3, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
183	stop			
185			>	
186				start
187	start			stop
188	stop			
189				start
191			<	
193	start			
195		<		stop
196	stop			
197				start/stop
198	start			
199	stop	>		
200			>	
201				start
202				stop
203			<	
204		<		
205	start			
206	stop	>		
207			>	
208		>	<	start/stop
209	start			
211				start/stop
213		>		
214	stop			
215			>	

**Table 14: Gaze/Turn pattern for Session 3, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
216				start
217			<	
219		<		
220				stop
221	start			
223	stop			
224				start
225		<		
227				stop
228		<		
229	start/stop	>		
230		<	>	start/stop

**Table 15: Gaze/Turn pattern for Session 4, Sequence 1**

event #	L verbal	L eyes	R eyes	R verbal
1	start/stop	<	>	
2		>	<	start
5				stop
6	start/stop			
7				start
10	start/stop			
11			>	
15		<		
16		>		
17		<		
18				stop
19			<	
20	start/stop			
21			>	
22		>		
23				start
24		<		
26				stop
27			<	
29		>		
30		<		
31	start			
38		>		
41			>	start/stop
42			<	

**Table 15: Gaze/Turn pattern for Session 4, Sequence 1**

event #	L verbal	L eyes	R eyes	R verbal
43	stop		>	
44				start
45				stop
46			<	
47	start			
49		<		
49		>		
52	stop			
53			>	start
57			<	
61		<		
62			>	
63	start/stop			
66			<	stop
67	start			
68	stop			
69		>		
70			>	
71				start
73		<		
75			<	
76				stop
78	start			
80	stop			
81			>	
82				start



**Table 15: Gaze/Turn pattern for Session 4, Sequence 1**

event #	L verbal	L eyes	R eyes	R verbal
83				stop
84			<	
85	start			
87	stop			
88			>	
89		>		start
90			<	stop
91	start			
93	stop			



**Table 16: Gaze/Turn pattern for Session 4, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
0		>		
1	start/stop		<	
2			>	
3		<		start/stop
4			<	
6	start			
7	stop	>	>	
8				start/stop
9			<	
10	start	<		
11		>		
12			>	
14		<		
16		>		
20	stop			
23				start
25		<		
26				stop
27			<	
28	start/stop	>		
29			>	
30				start
32			<	
35		<		
37				stop

**Table 16: Gaze/Turn pattern for Session 4, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
38	start/stop			
39		>		
40			>	
41				start
42	start			stop
43		<	<	
46	stop			
47		>		
48			>	
49				start/stop
50		<	<	
51	start			
54		>		
56	stop			
57			>	start
60			<	stop
61	start/stop			
62				start
66				stop
67	start/stop			
68		<		start
69		>		stop
70	start/stop			
71				start
73				stop
74		<		

**Table 16: Gaze/Turn pattern for Session 4, Sequence 2**

event #	L verbal	L eyes	R eyes	R verbal
75	start/stop			
76		>		
77			>	
78				start
79				stop
80	start			
82				
83		<		start/stop
85			<	
87			>	
90				start
91		>		
92				stop
95	stop			
96				start
99			<	stop
100	start/stop			
101		<	>	
102				start
103				stop



Verbatim transcript for Session 1, Sequence 1	49
Verbatim transcript for Session 1, Sequence 2	61
Verbatim transcript for Session 2, Sequence 1	79
Verbatim transcript for Session 2, Sequence 2	91
Verbatim transcript for Session 3, Sequence 1	105
Verbatim transcript for Session 3, Sequence 2	109
Verbatim transcript for Session 4, Sequence 1	125
Verbatim transcript for Session 4, Sequence 2	133
Gaze/Turn pattern for Session 1, Sequence 1	141
Gaze/Turn pattern for Session 1, Sequence 2	145
Gaze/Turn pattern for Session 2, Sequence 1	151
Gaze/Turn pattern for Session 2, Sequence 2	155
Gaze/Turn pattern for Session 3, Sequence 1	159
Gaze/Turn pattern for Session 3, Sequence 2	161
Gaze/Turn pattern for Session 4, Sequence 1	167
Gaze/Turn pattern for Session 4, Sequence 2	171

