Lec 8 Laminar Semiotics



Semiotics

Semiotics = Meaning Making

- When some researchers study meaning-making with language, they only look at the WORDS
- Often assume that meaning is "looked up" in memory,
 - Used to decode auditory input and encode vocal output

BUT...

Words *live* in Conversation

- The word's ecology includes multiple types of <u>semiotic resources</u> with which they must coordinate
 - Gesture, Gaze, Facial Expression, Intonation, etc.
 - As well as Cognitive Artifacts & Participants' History

Conversation

From our view...

•Conversation is a collaborative reconfiguring of these semiotic resources

- Meaning is generated anew in each conversation
 - This is NOT to say that memory does not play a part, only that what is remembered is not "meaning"
 - Instead, memory is one more resource for the current, online, context-specific & collaborative meaning-making process

Conversation

 So, meaning is not something you look up, match to the other guy's...



- Meaning is something you <u>do</u>!
- A <u>word is an act</u>, for which you have learned a complex set of contingencies for its use to accomplish various ends...



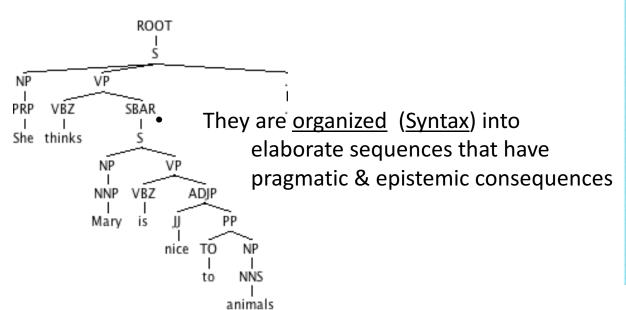
Semiotic Resources

- Semiotic resources are layered together in complex displays,
 creating public structures, transformed by the interlocutors
- We can document these configural transformations by tracking changes in, and relations between, observable media
- What are the **media of information flow** in this dynamic, distributed system?
 - Lexicon
 - Affect
 - Gesture
 - Attention
 - Material environment

Lexicon

- The <u>morphemes</u> of a language
 - "dog", "eat", "-ing", etc.
 - They are involved in complex associations, developed thru experience w/interlocutors,

in material & social contexts





THE INNATE CAPACITY FOR GENERATING SENTENCES

Lexicon

- The <u>morphemes</u> of a language
 - Includes <u>affect</u> terms ("happy" "horrible" "no")



Among the resources that enable speakers to take an

"**Evaluative Stance**" toward a topic

Affect

- Our displays of emotion & arousal
- Visio-spatial
 - Facial expressions
 - Posture, Movement
 - Used as true, exaggerated, or inhibited evaluative displays
- When simultaneous w/lexical, modifies meaning
 - Serious words/silly face

Positive words/doubtful face, etc.



"Ok..."

Affect

- Our displays of emotion & arousal
 - Auditory / Vocal
 - Intonation
 - Prosody
 - Amplitude



- e.g. Emphasis can <u>highlight</u>, disambiguate, implicate:
 - "He insulted her" vs. "He insulted her"
- e.g. Cultural norms of the <u>duration of a pause</u> between turns
 - Can lead to inter-subject or cross-cultural inferences
 - Too slow, seem stupid, resistant, require prompting
 - Too fast, seem aggressive, impatient, disinterested



- Traditionally divided into categories (Mac Neil, 1992)
 - Emphatic
 - Iconic
 - Emblematic
 - Metaphoric
 - Indexical



- These categories are not always mutually exclusive, depending on both particular action and context
- Note that they are dynamic, so TIME is a critical component

Semiotic Resources

Gesture

Emphatic

- (AKA "Beat") Simple, often rhythmic
- Void of propositional or topical content
- Used to add emphasis
 - Especially when synchronized w/other modalities



• Iconic

- Bears <u>perceptual similarity</u> the object or event to which it refers
- Can be mapped to new media (e.g. use hand to rep human),
 or be portion of actual activity referred to (reach part of carry)







Emblematic

- Culture-specific ritual, may/may not be derived from above, but now only conventional
- Can be used in place of words, with established associations



Metaphoric

Create image of object, space, movement, etc.
 to map across domains, or refer to an abstract topic





e.g. Point forward for future, behind for past

(or reverse, if from Aymara culture – see Nunez & Sweetser, 2006)

Indexical

- (AKA "Deictic") <u>Pointing</u> (w/hand, chin, head, etc)
 - Also use Gaze (Eyes/Head orientation); Body Orientation
- Can accompany deictic terms (here, there, you, this, that)
 - Plus nonverbal: Attention-getting noise; Gasp of discovery-like surprise
- Usually <u>environmentally-coupled</u>, with object, place, or person.





Semiotic Resources

Relations between Gesture and Lexicon

Gestures can <u>augment</u> (convey same info)
 <u>complement</u> (convey additional, related info)
 or <u>contradict</u> the other resources





These distinctions will be critical in today's LAB . . .



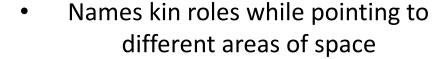
Complement

("I'm taking this from you, but is all in fun")

Gestures can Create Spaces

These spaces then <u>become semiotic resources</u>:

- e.g. Speaker from Laos
- Describes rules governing marriage



- He & wife at mid height (R & L), their older siblings aligned above, younger aligned below, then...
- "Draws" connections between spaces/people who are (parallel) vs. are not (diagonal) allowed to marry



Fig. 18. "But—the one who is—my wife,"



Fig. 19. "she has an older sister—right!"



Fig. 20. "But [I] have a younger sibling—."



Fig. 21. "(for him) to marry (her)—is not possible."



FIG. 22. "If my younger sibling"



Fig. 23. "would marry the younger sibling of my wife . . . (that's) possible."

Attention

- Acts/displays that procure, share sensory information
 - Eye direction, head & body re-orientation, reaching, pointing, etc.
 - Communicate focus of speaker's attention
 - Help coordinate attention across interlocutors



Material Environment

- Including Objects (in-/animate, artifacts), Substrates, and Ambient Stimuli (lights, sounds, smells, etc)
- Objects are handled, pantomimed, pointed to, named
- Substrates used as "canvas"
- Ambient stimuli named, imitated, etc.



Laminar Semiotics

 The above semiotic resources are laminated by a speaker into a multi-modal display



VIDEO: Wedge



e.g. A lexical layer + a gestural layer

"...a hybrid service..." + form wedge with 2 hands

"...you went to do service..." + move 1 hand away & back

"...you went to learn..." + move other hand away, back

Laminar Semiotics

Plus, in <u>conversational exchanges</u>, interlocutor may transform certain layers of other's output, while retaining others

TONY: "Why don't you get out of my yard?!"

CHOPPER: "Why don't you *make me* get out of the yard?!"

JOHN: "I am going to the store"

MARY: "Which store are you going to?"

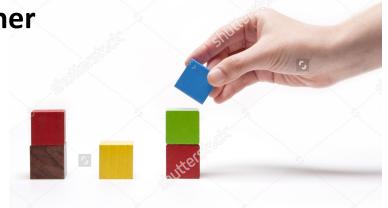
SUE: "There is a new Chris Pine movie coming out"

MARY: "Oooo! I loved him in Star Trek"

Transform from one medium to another

- e.g. A says "Pick up the blue one",
 - B picks up the blue object
 - Transform from lexical to action

 e.g. Mimic of audible oscillation in a machine's operation converted to up/down motion





VIDEO: Rowww

Imitation

"Reported speech"

- Lexical copying, quoting other's words or co-referring

e.g. "And so she says, 'well I just don't care!' "

e.g. "Dad said it was ok"

e.g. "They say it's going to rain"

Imitation

- Social imitation/synchrony indicates attunement to other
- Promotes pro-sociality (e.g. people more helpful if imitated)



e.g. Excited friends imitate posture and to/from arm movements

VIDEO: RollingChairs

Imitation

- Can <u>pantomine</u> routines associated w/procedure or w/present (or imaginary) object;
- Used to refer, tease, teach, etc. etc.



e.g. She says "pitcher" to
describe shape of bay,
He mimics pouring to
ask if that kind of pitcher



VIDEO: Pitcher

Imitation

- Impersonate: Replay gestures, strike attitudes, etc.
- Used to refer to/comment on absent (or present) person or view

e.g. He changes voice, posture when he adopts the role of 'The Authority'



VIDEO: DoNotFlush

GOODWIN, 2000, 2013

"Chil" suffered a left frontal lobe stroke . . .



VIDEO: Seven

Can produce 3 words ("Yes", "No", "And"), nonverbal sounds, and gesture with only his left hand

But, <u>in collaboration</u> with his interlocutors, he can <u>engage in coherent</u>, <u>meaningful conversation</u>

<u>Semiotic Resources</u> include ...

Words, Intonation, Gaze, Hand shape, position & motion, Facial expression, Orientation, Shared history

Transforms of configurations of these are done thru, among others, the following <u>co-operations</u>...

Chil and Family Converse



VIDEO: Seven

Some Co-Operations for Meaning Making

- Securing Orientation
- Parsing Activity
- Negotiating "Activity Frame"
- Taking an Evaluative Stance

Securing Attention

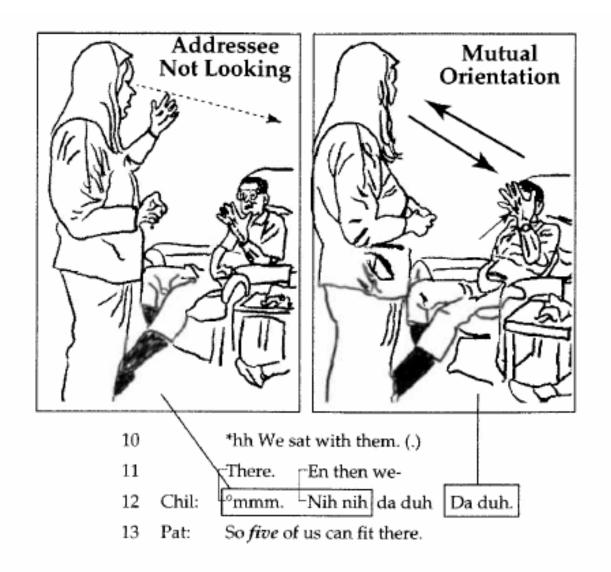
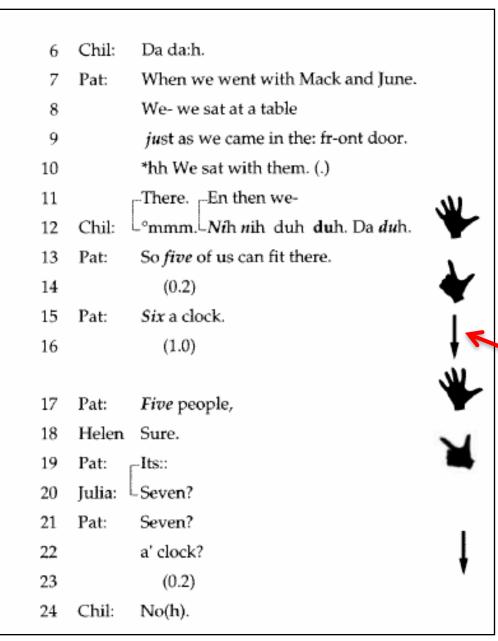


Figure 4.2.

Securing Attention



VIDEO: Linosite



Parsing the activity

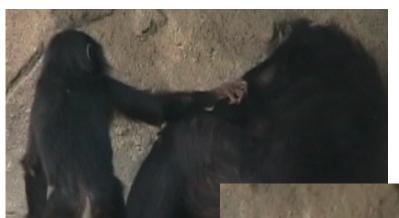
Establishes a "stage" by positioning hand signals In, and out of, area of space

7	Pat: When we went with Mack and June.
8	We- we sat at a table
9	just as we came in the: fr-ont door.
10	*hh We sat with them. (.)
11	There. En then we-
12	Chil: ommm. Nih nih duh duh. Da duh.
13	Pat: So five of us can fit there.
14	(0.2)
1.2	
15	Pat: Six a clock.
16	(1.0)
17	Pat: Five people,
18	Helen Two.
	\\ \\ \
19	Pat: Its::
20	Julia: LSeven?
21	Pat: Seven?
22	a' clock?
	a clock;
24	Chil: No(h).

Negotiating an Activity Frame

Each speaker transforms and adapts to the resources presented by the other . . .

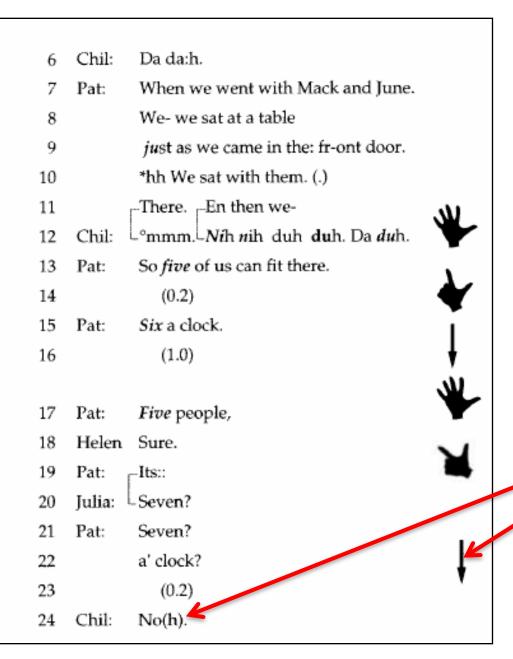
. . . as they work out whether appropriate frame is SUM (# of people) or TIME



Parsing Activity



VIDEO: Frustration

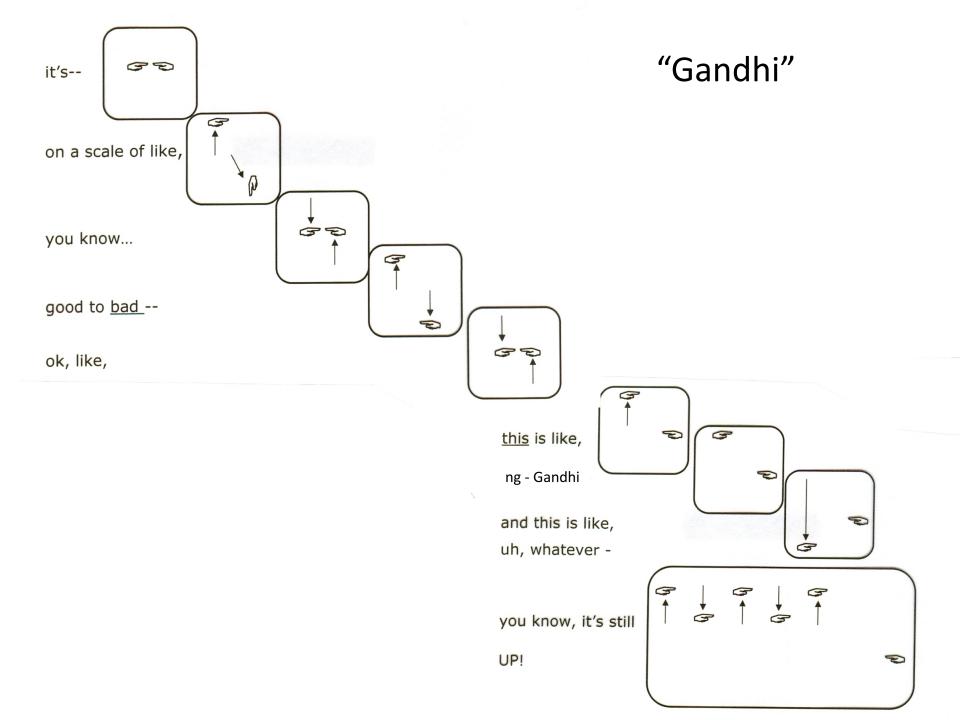


Taking an "Evaluative Stance"

Taking an Evaluative Stance



VIDEO: Ghandi



LAB 6:

How will YOUR subjects

laminate & transform their semiotic resources???

Lab 6 Submit your videos to the following link NOTE: Link has been emailed to all...

https://drive.google.com/drive/folders/1GzlYOY0hgscLNu7j6p57 N0-lm3cabkiG?usp=sharing