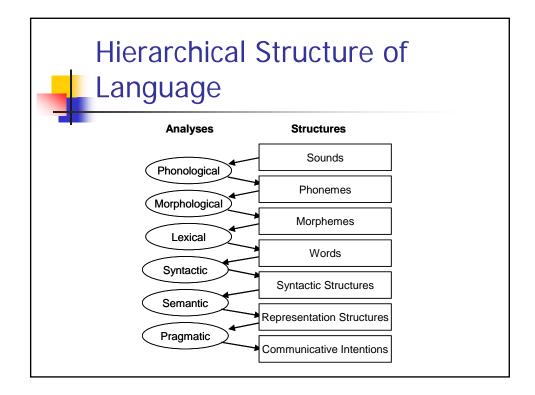
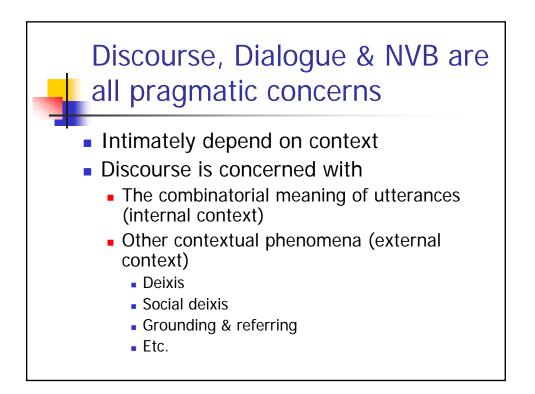


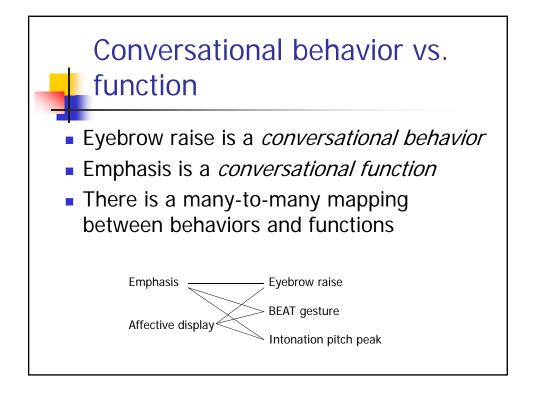


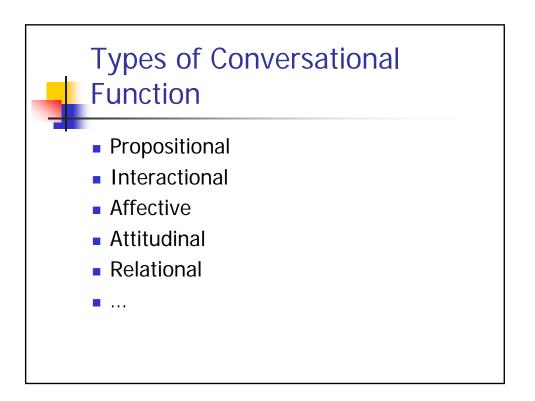
Human Dialogue

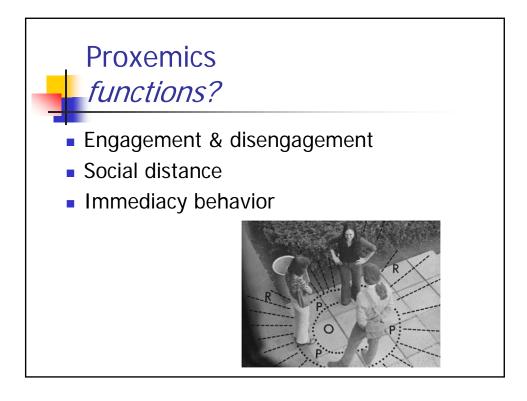
Why should HCI designers/researchers study it?



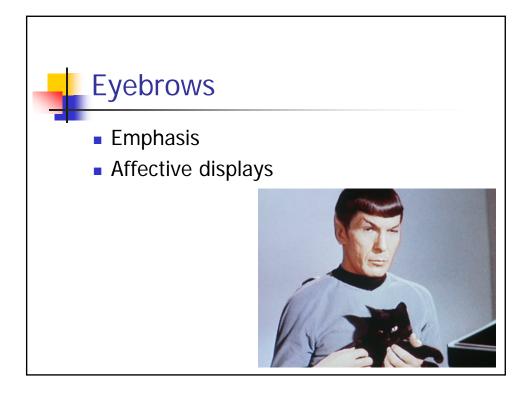


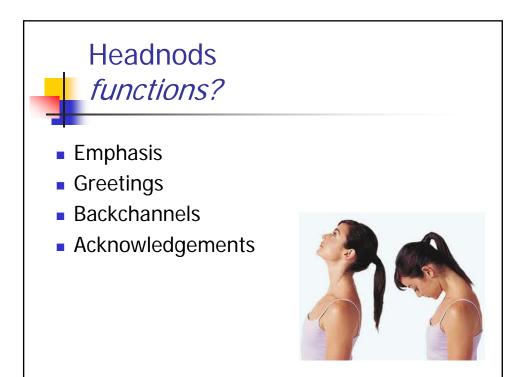












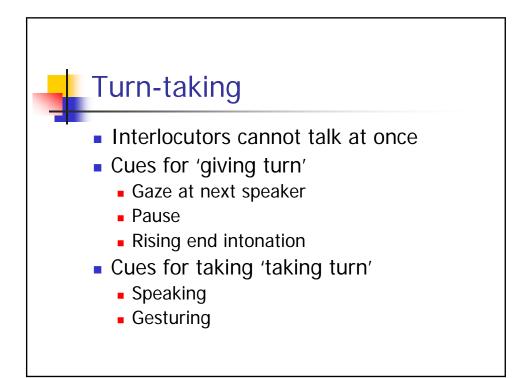
Hand gesture functions?

Form... (from David McNeil)

- Beat
- Deictic
- Iconic
- Metaphoric
- Emblematic

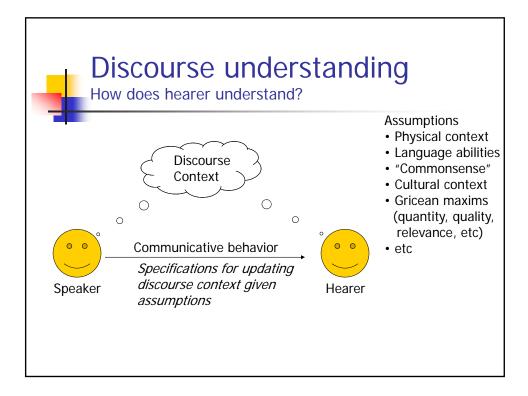
Function

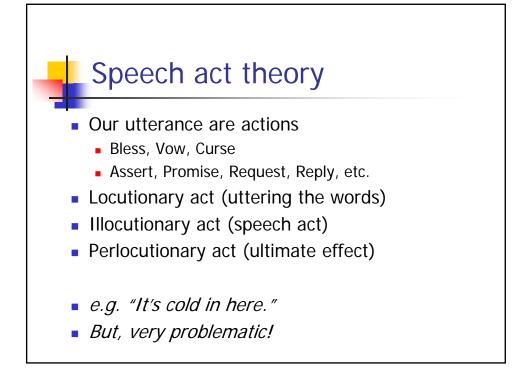
- Emphasis
- Propositional/Semantic
- Turn-taking / interruption

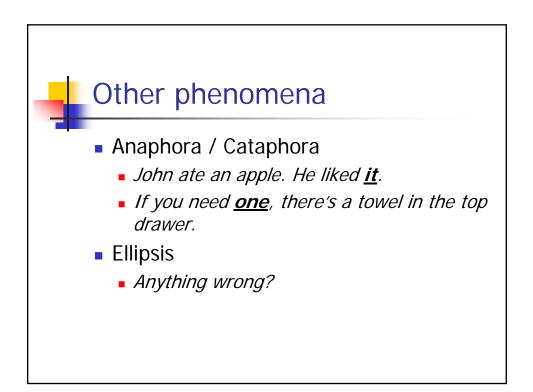


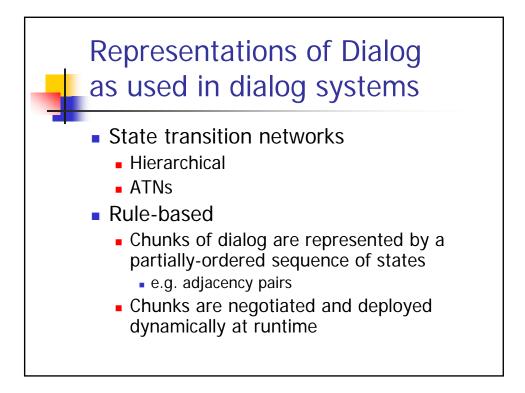
Grounding

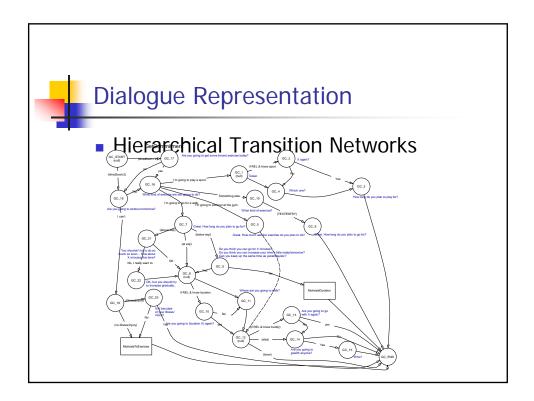
- Process by which interlocutors come to a shared understanding of what is said
- A collaborative process
- Mechanisms
 - Requests for acknowledgement
 - Acknowledgements
 - Can be contingent move
 - Request for repair
 - Repair

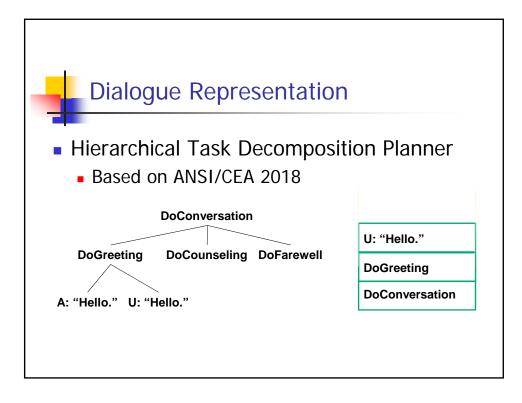


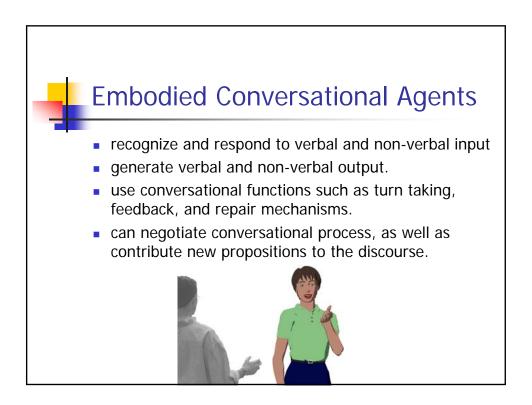


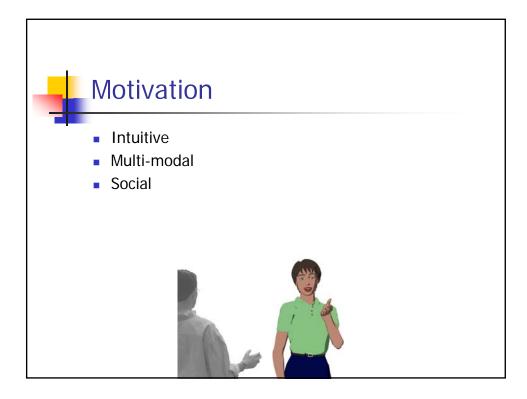


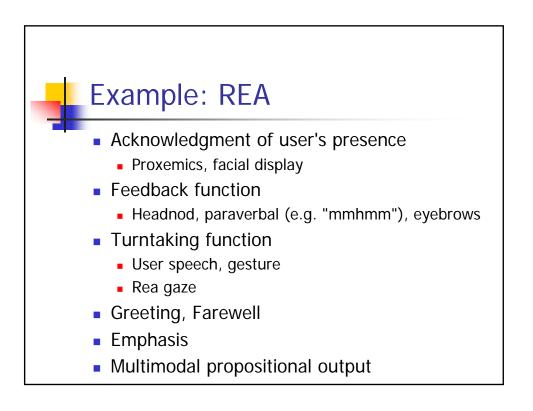




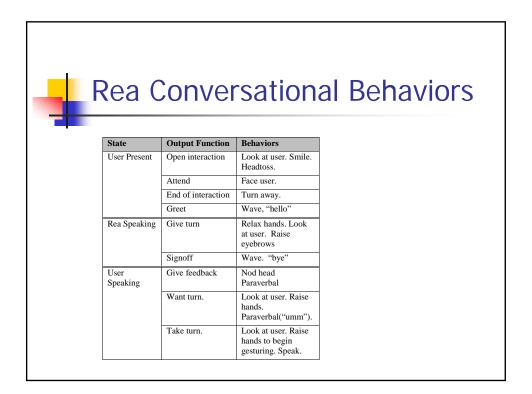


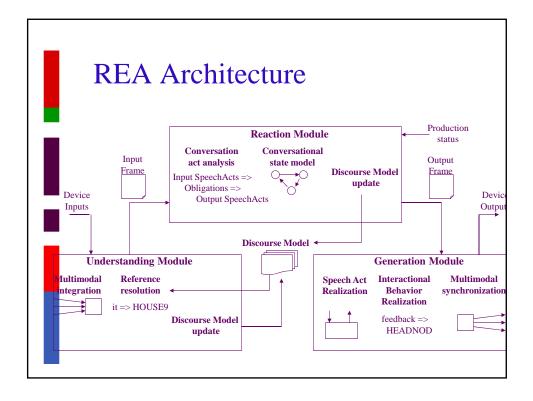




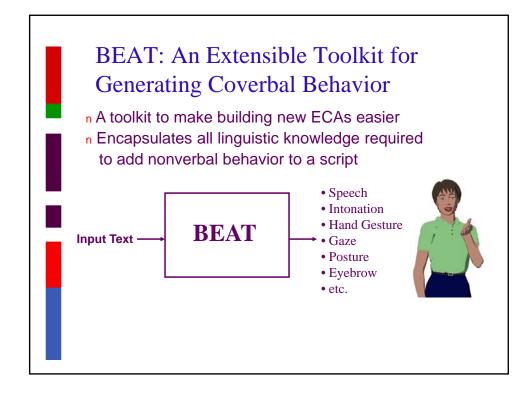


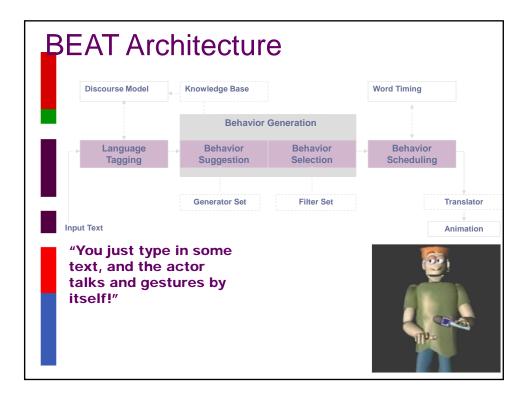
Rea Tu	urn-Takin	g Mode
State	User Input	Input Function
Rea speaking	Gesture	Wanting turn
	Speech	Taking turn
User	Pause of <500 msec.	Wanting feedback
speaking	Imperative phrase	Giving turn
	Interrogative phrase	Giving turn
	Declarative phrase &	Giving turn
	pause >500 msec. &	-
	no gesture	
	Declarative phrase &	Holding turn
	long gesture or pause	

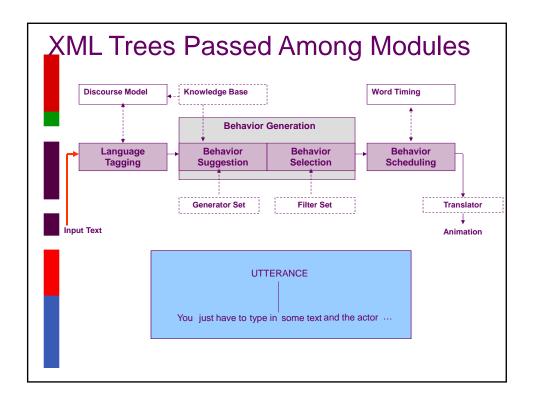


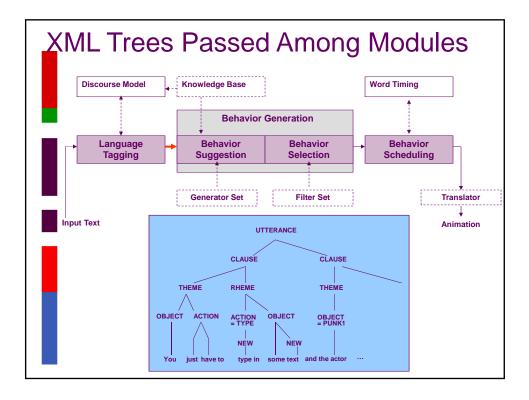


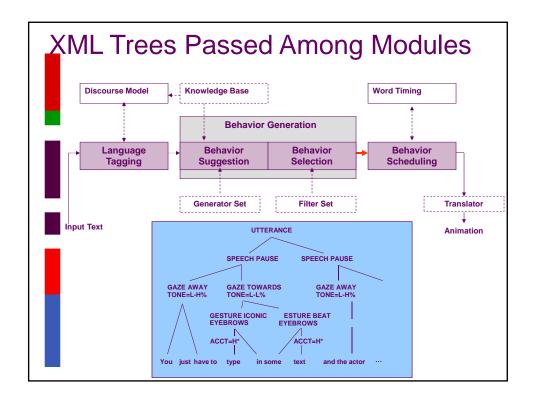


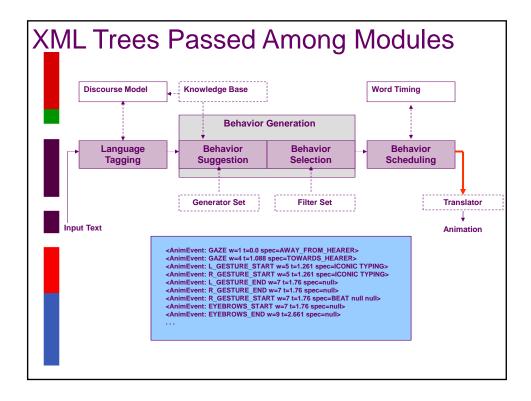


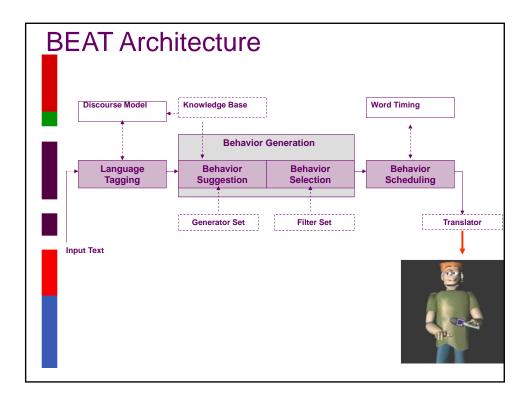














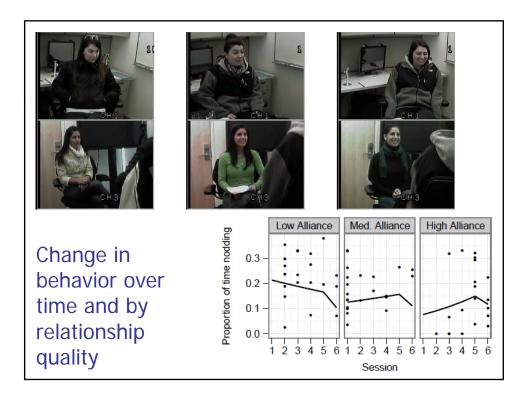
-	piric ture		tudie: ts	C	assell, Nak idner &Ric ues for Dis .CL '01	h. "Non-"
-	1		*			VIR
15:33:28 Postur	e shifts		15:31:00			
	e shifts Mone	ologues (spect to o 0.06/s)	Dial	ogues (0.0)7/s)
	e shifts		spect to o			
	e shifts Mone	ologues (spect to o 0.06/s)	Dial	ogues (0.0)7/s)

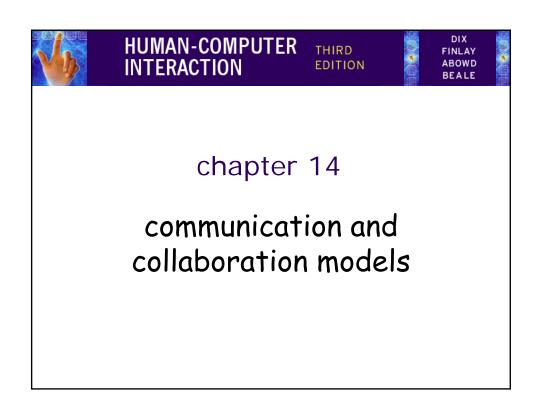


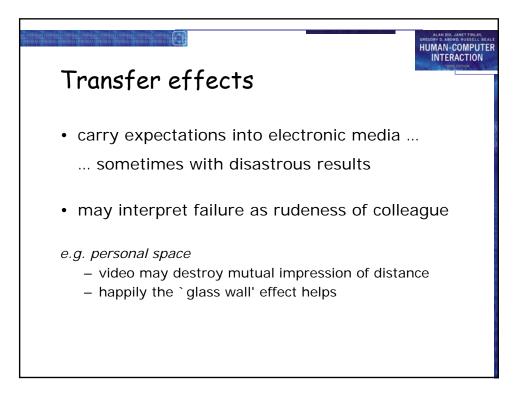
Resulting	Models
Resulting	MOGCIS

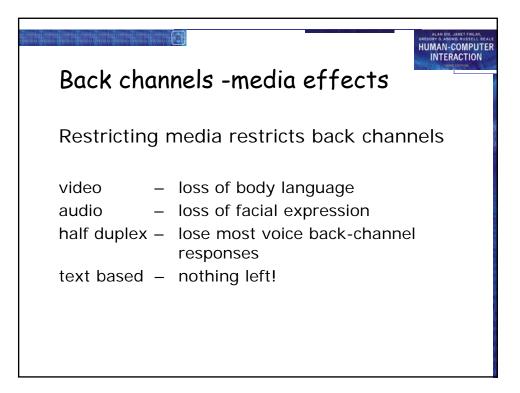
New Topic Level	NONE	POINT	REGION
No Change	80.8%	13.1%	6.1%
PAGE	63.6%	13.6%	22.7%
SECTION	48.3%	32.8%	19.0%
ITEM	31.2%	65.9%	2.9%

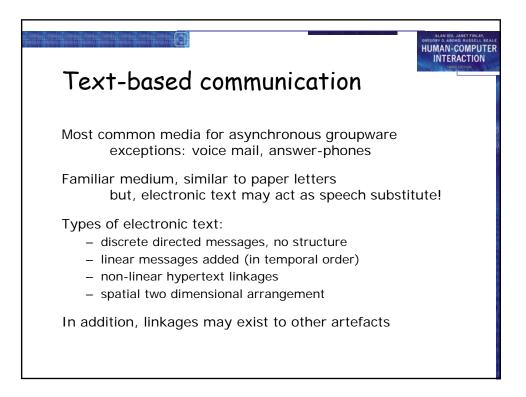
Speaking and gesturing: gaze at document 83%











Problems with text	ALAN DK, JANET FILLAY, GEGODY D. AND DR. RUSSELL BEALE HUMAN-COMPUTER INTERACTION UNDER STORE
No facial expression or body language ⇒ weak <i>back channels</i>	
So, difficult to convey: <i>affective state</i> – happy, sad, <i>illocutionary force</i> – urgent, important,	
Participants compensate: 'flaming' and smilies ;-) :-(:-)	

