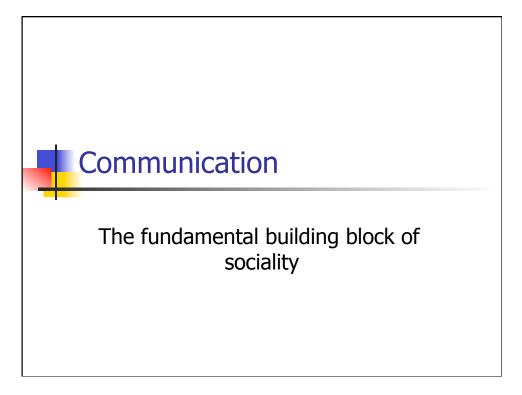




# Social Interaction

Why care?

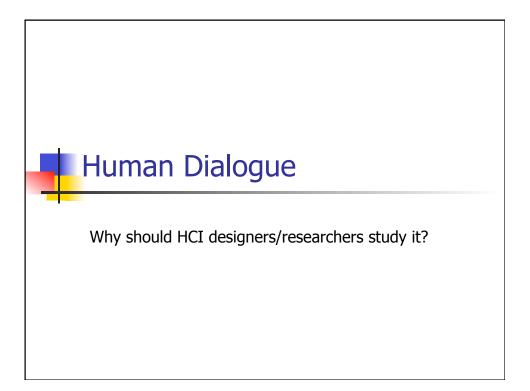
- Humans are social creatures.
- You should consider the social impact of your designs.
- We can facilitate social interaction with tech.
- Disciplines
  - anthropology
  - sociology
  - social psychology

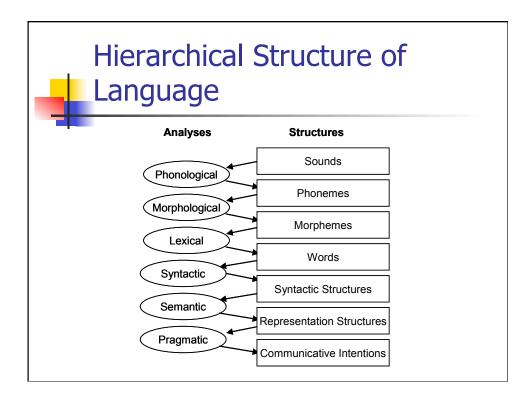


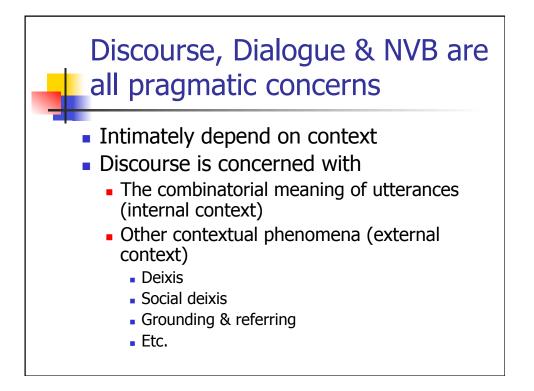
# Notation

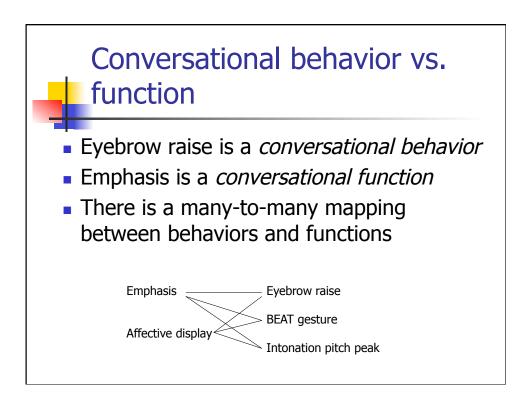
- Each utterance on a new line, preceded by speaker initial (<u>Diane,Beth,N</u>ed).
- B: [1 So what are you looking for]?
  - 1: right hand point at B
- N: Oh, um, I think three bedrooms.

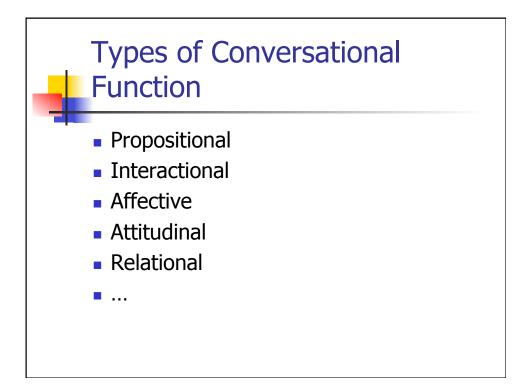


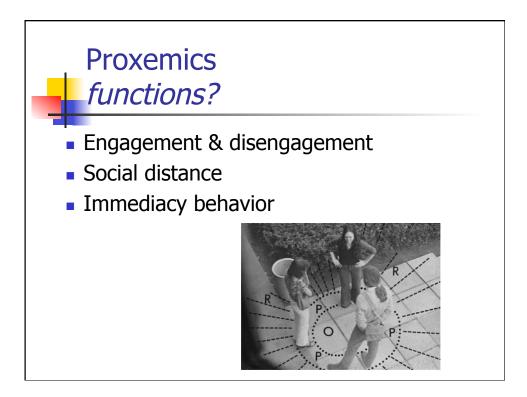




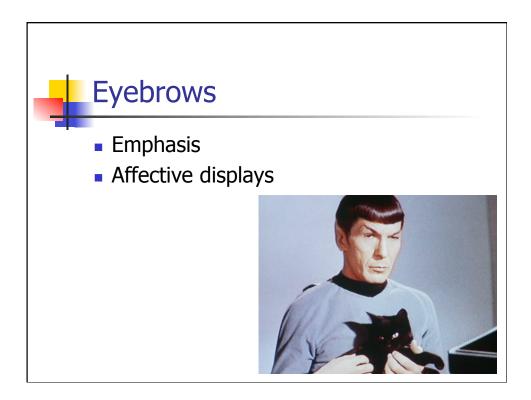




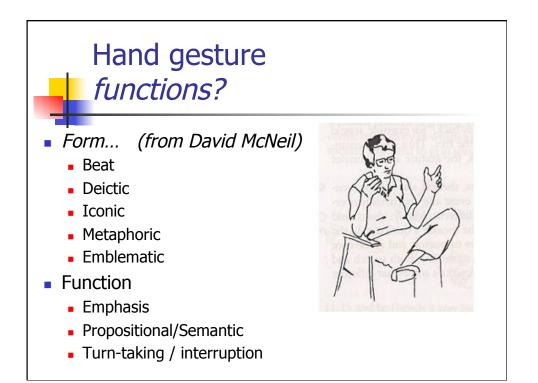


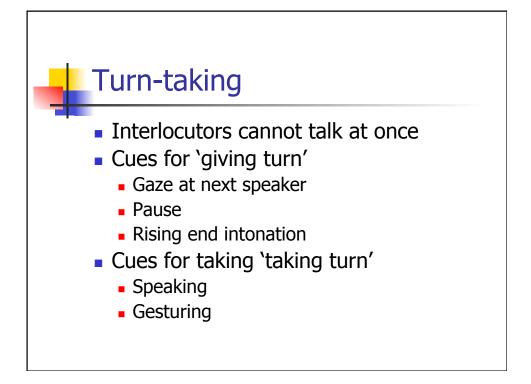


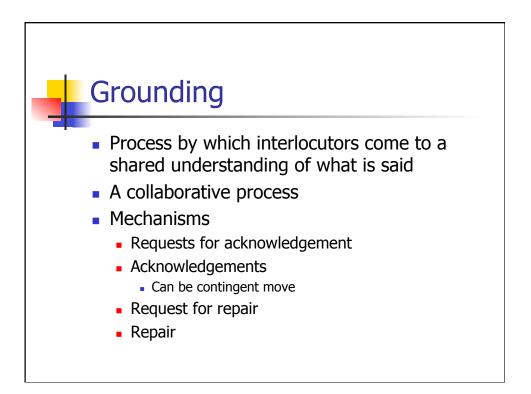


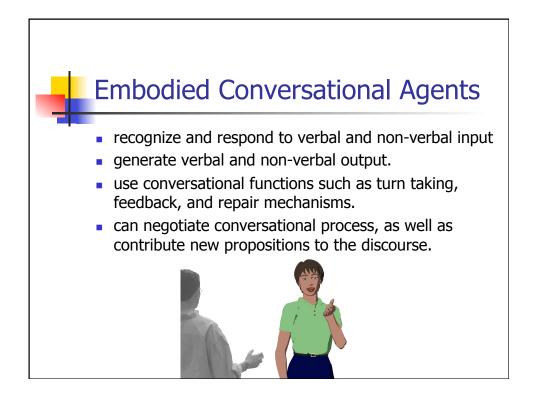


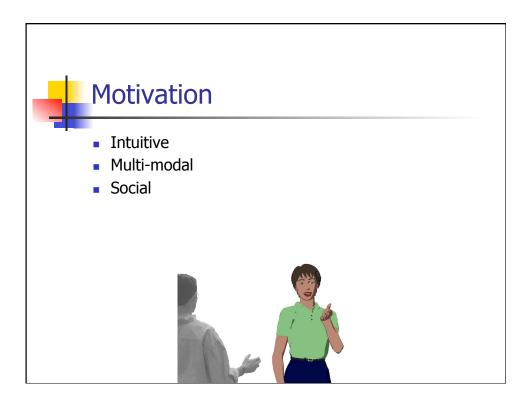
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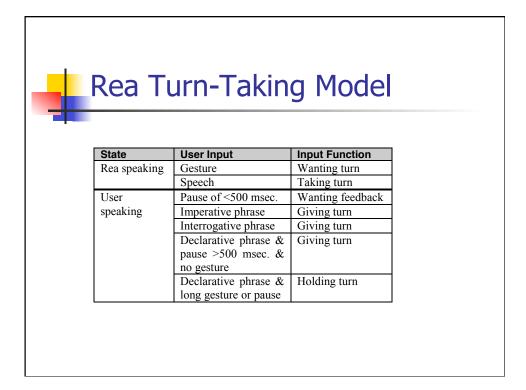




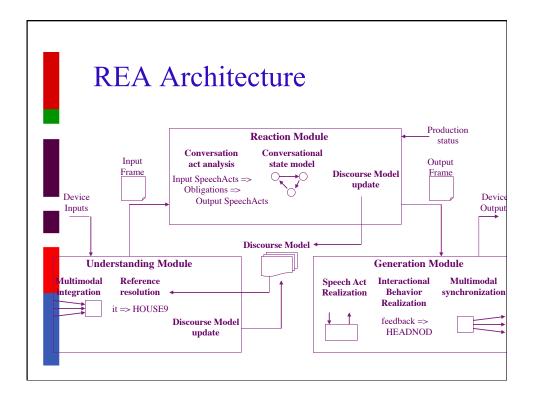


# Example: REA

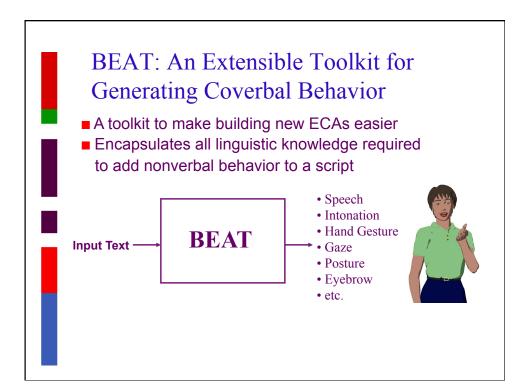
- Acknowledgment of user's presence
  - Proxemics, facial display
- Feedback function
  - Headnod, paraverbal (e.g. "mmhmm"), eyebrows
- Turntaking function
  - User speech, gesture
  - Rea gaze
- Greeting, Farewell
- Emphasis
- Multimodal propositional output

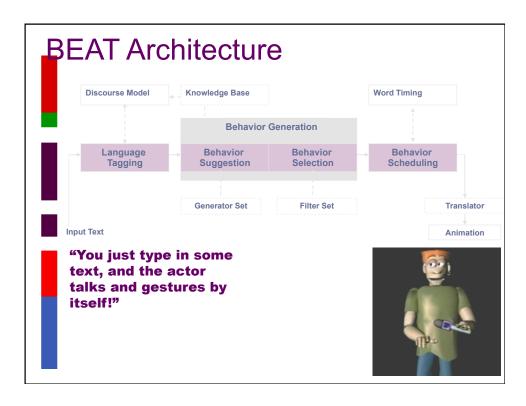


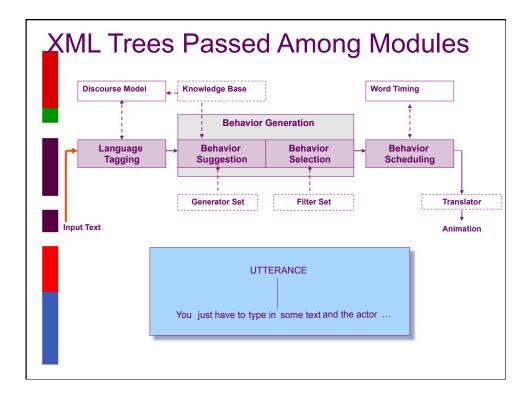
Rea C	Convei	rsation	al Behaviors
Qu. L	0 ( ) F /	Behaviors	1
State User Present	Output Function Open interaction	Look at user. Smile. Headtoss.	
	Attend	Face user.	
	End of interaction	Turn away.	
	Greet	Wave, "hello"	
Rea Speaking	Give turn	Relax hands. Look at user. Raise eyebrows	
	Signoff	Wave. "bye"	
User Speaking	Give feedback	Nod head Paraverbal	
	Want turn.	Look at user. Raise hands. Paraverbal("umm").	
	Take turn.	Look at user. Raise hands to begin gesturing. Speak.	

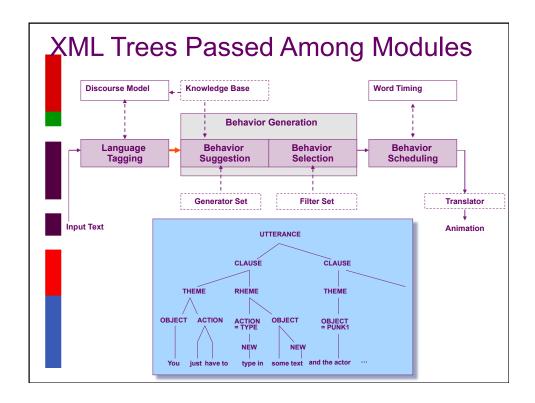


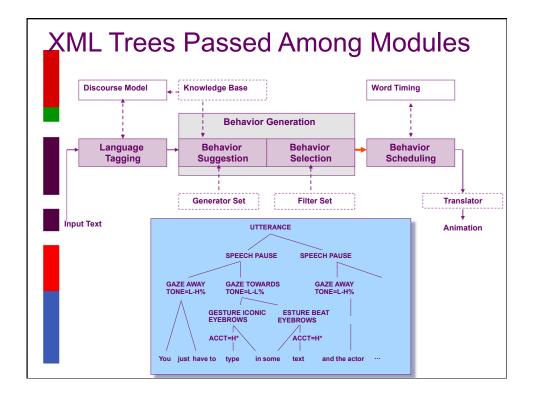


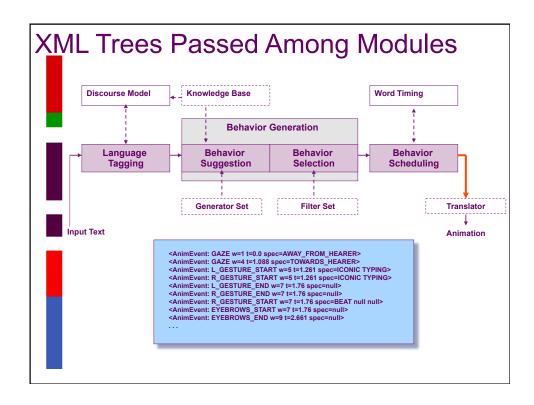


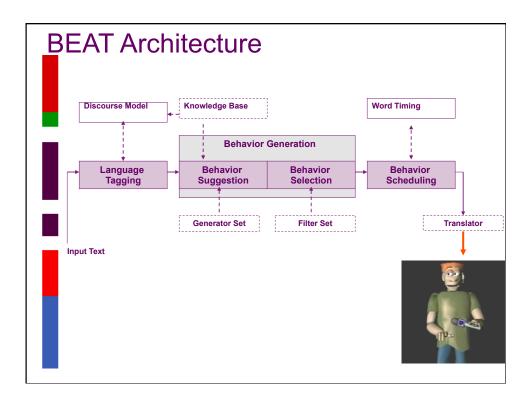




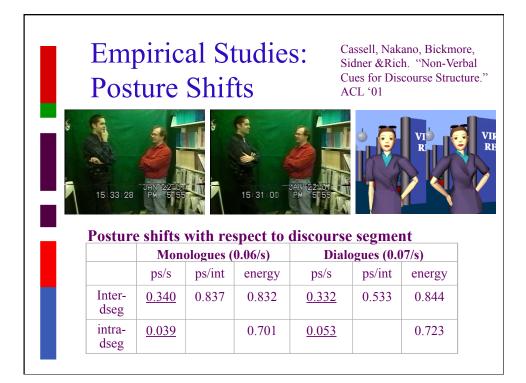








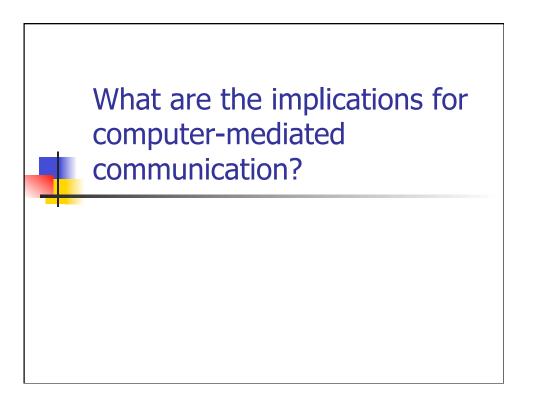


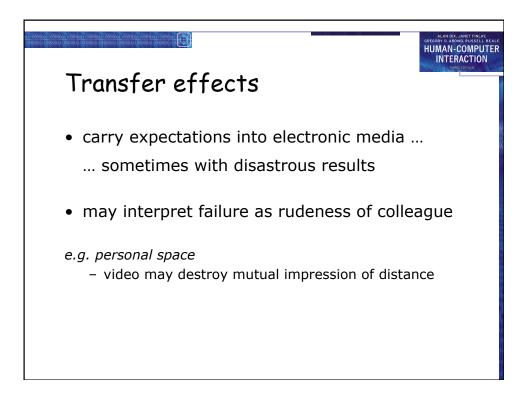




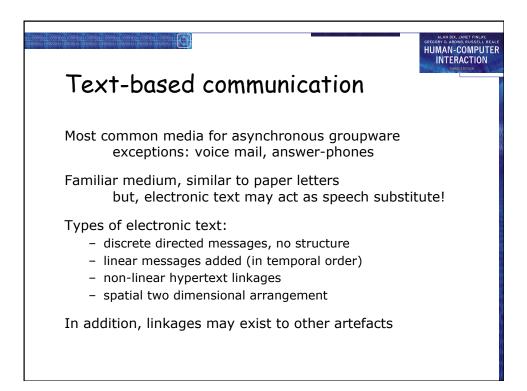


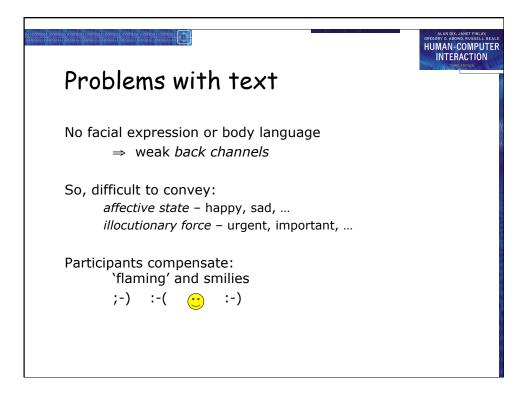
	Gesture			
New Topic Level	NONE	POINT	REGION	
No Change	80.8%	13.1%	6.1%	
PAGE	63.6%	13.6%	22.7%	
SECTION	48.3%	32.8%	19.0%	
ITEM	31.2%	65.9%	2.9%	

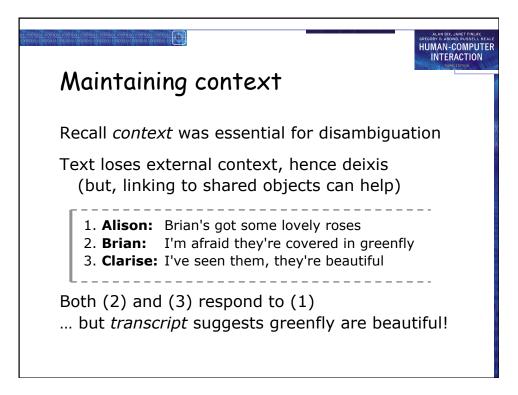


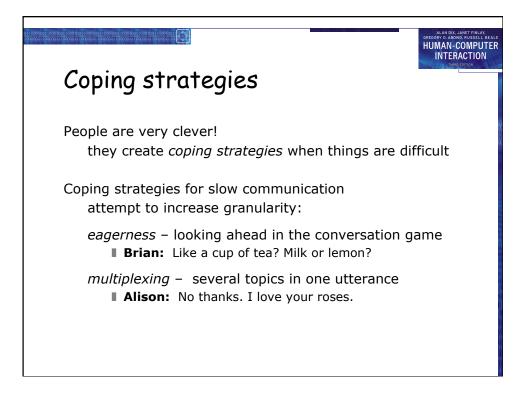


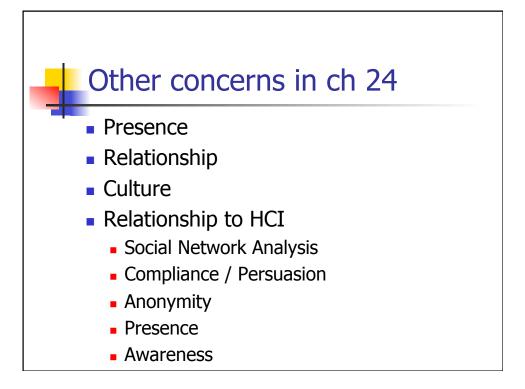
Back channels (grounding) - media effects
Restricting media restricts back channels
video – loss of body language audio – loss of facial expression half duplex – lose most voice back-channel responses text based – nothing left!

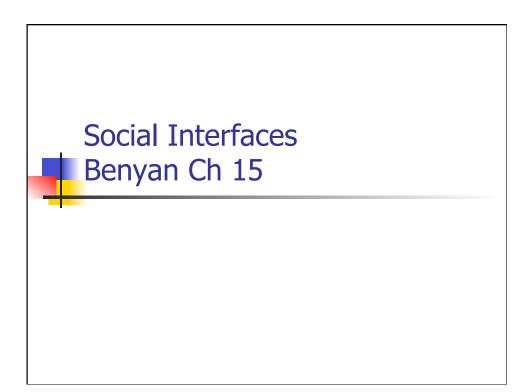




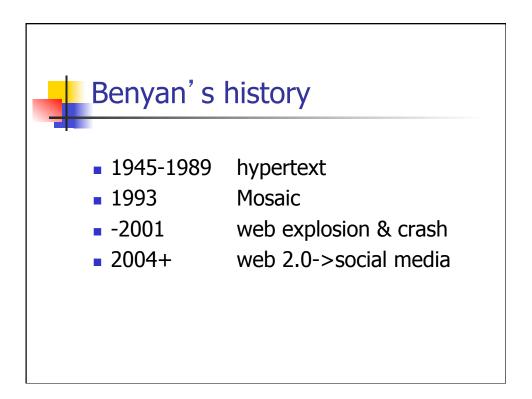








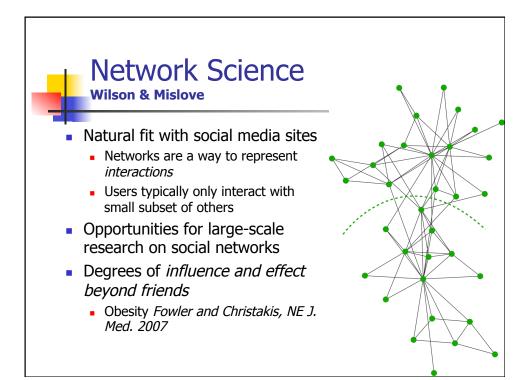


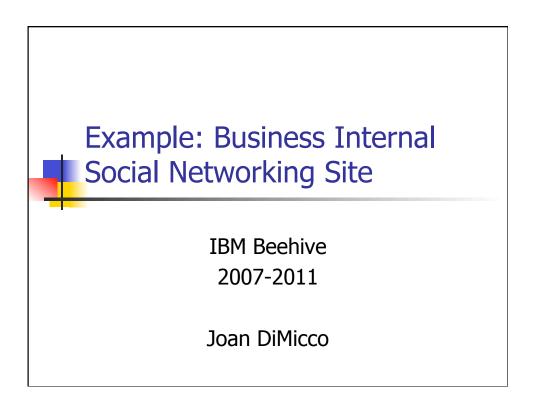


### Social Media Wilson & Mislove

- Social media has transformed society
  - Reduced barriers to communication
  - Democratized content publication
- As a computer scientist...
  - Tend to ignore users
  - Social media makes users a part of the system
- Important to understand interactions
  - Within the system (traditional CS)
  - Between users and system (HCI)
  - Among users (sociology)







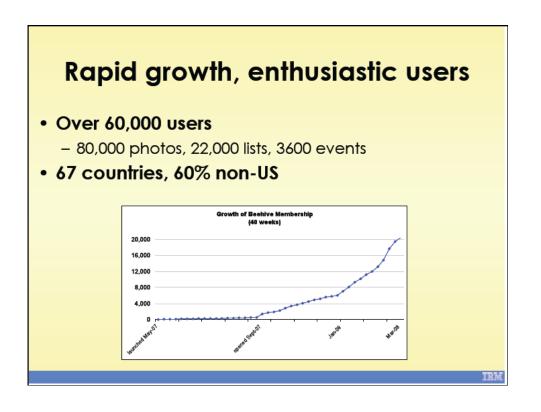
### **IBM Today**

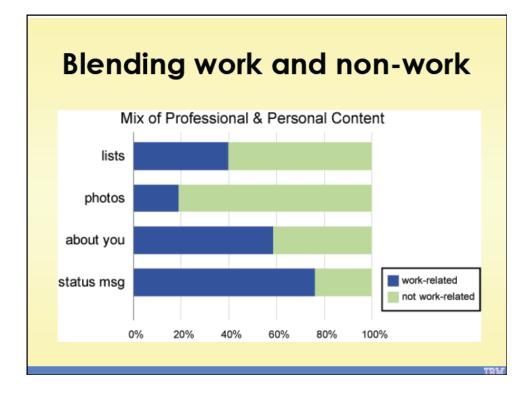
- IBM's business: software, consulting, information technology (IT) services
- 350,000 employees
- 170 countries
- intranet:
  - employee directory
  - blogs
  - forums
  - social bookmarking

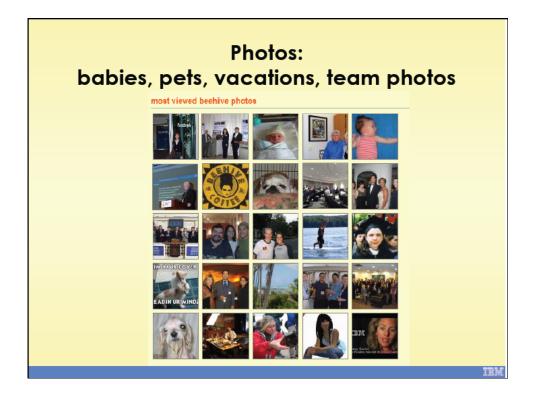


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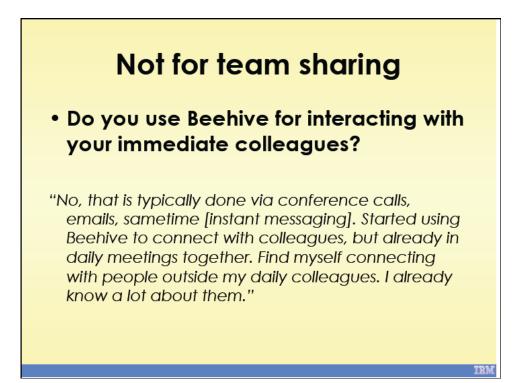




### Sharing with their colleagues

 More sharing with "weak ties" than close colleagues

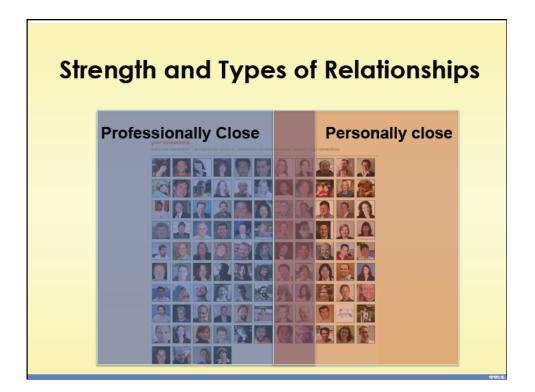
"[Beehive] helped me ... maintain loose social ties with people I don't have a close, frequent connection with (which is based on a work or friendly relationship), but would like to do some maintenance to my connection with them, for the future's sake."

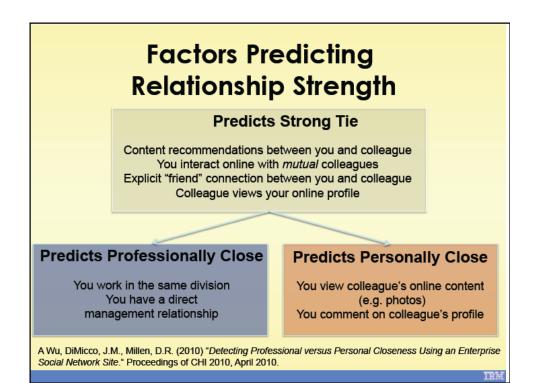


### **Discovering new colleagues**

serendipitous discovery of new colleagues

"Browsing contact lists of my contacts [on Beehive] also helped me get better knowledge of who should I know within IBM (by seeing who appears in multiple contact lists). I also learned about informal communities that exist within IBM - the cat lovers, the photographers, and maybe even the people who play strange musical instruments."







# Design Considerations for Social Media

- What's different from single-user desktop UI design?
  - Identity
  - Privacy
  - Trust
  - Credit / Reputation
  - Motivating use/contribution
  - Moderating content & behavior



