

Why is this not an issue for us, humans?





Fribbles



Preparation

Create playgroups of 4

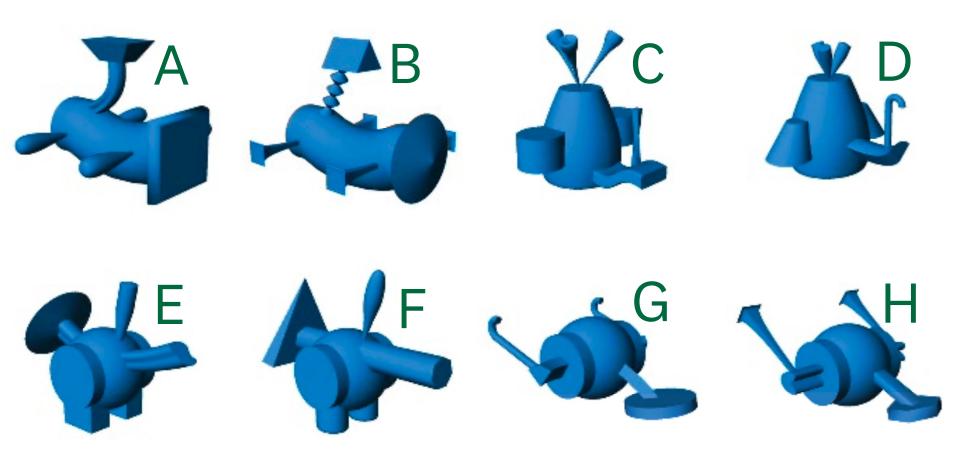
• Each person makes a note sheet, 1, 2, .., 8

(the Fribbles are named A, B, ..., H)



1	
2	
2 3 4 5 6 7 8	
4	
5	
6	
7	
8	

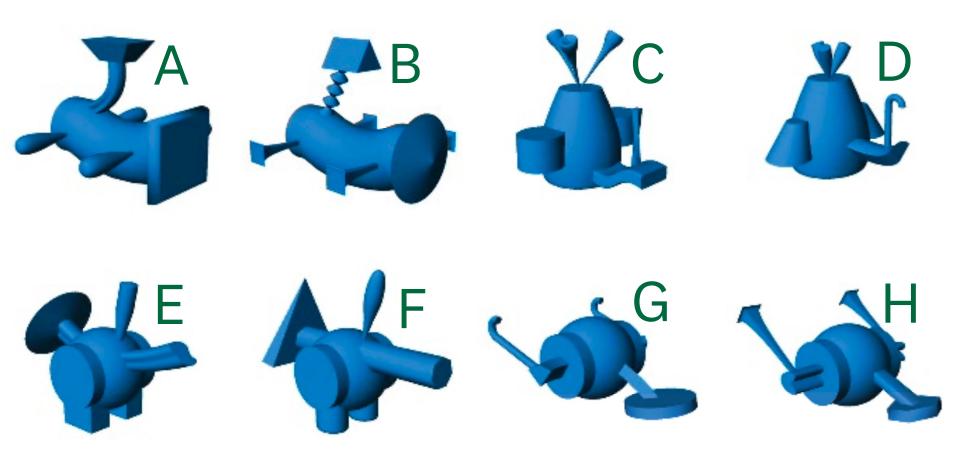




Round I

- Distribute the 8 same-colored Fribbles (2 per person)
- The first person describes one of their two Fribbles (without showing the Fribble or ever mentioning any of the Fribbles' names)
- •Others can ask for clarifications, then write down the presumed Fribble (A, B, .., H)
- •Second person goes, and so on, until all 8 have been described (over two rounds)





Observations I

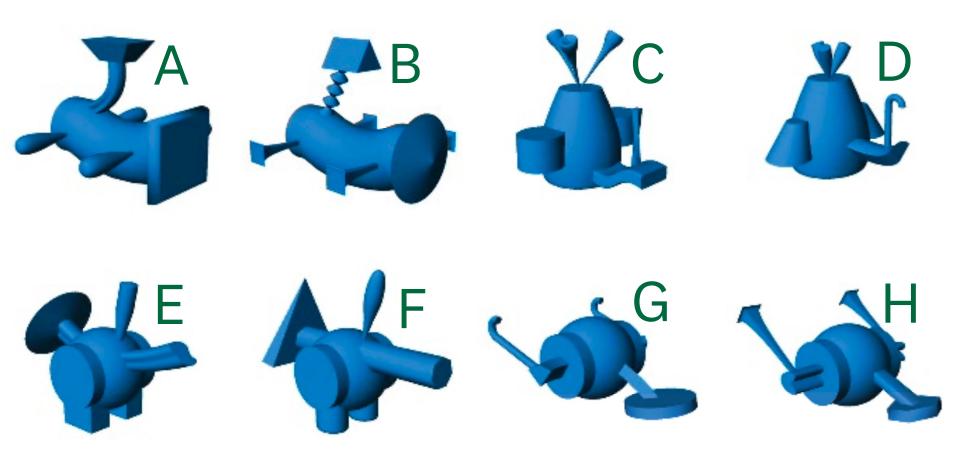
•We humans can rapidly converge on a new reference for an object, flexibly putting even existing words to new use

What did you observe?

Round II

•Same as round I, but shuffle the Fribbles. Everyone gets two again





Observations II

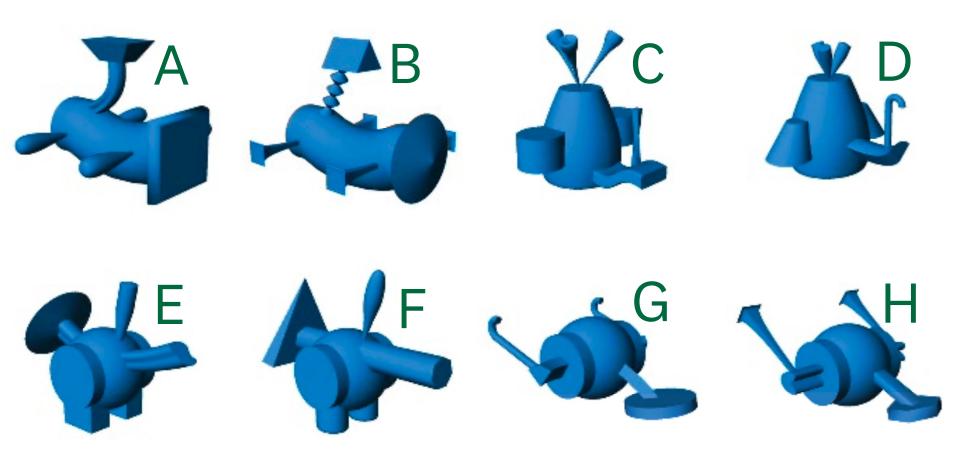
- Communicative history helps in achieving mutual understanding of the references
- Simplification of conceptual pacts

What did you observe?

Round III

•Same as rounds I & II, but shuffle the groups such that 2 players from group A form a new group with 2 players from group B





Observations III

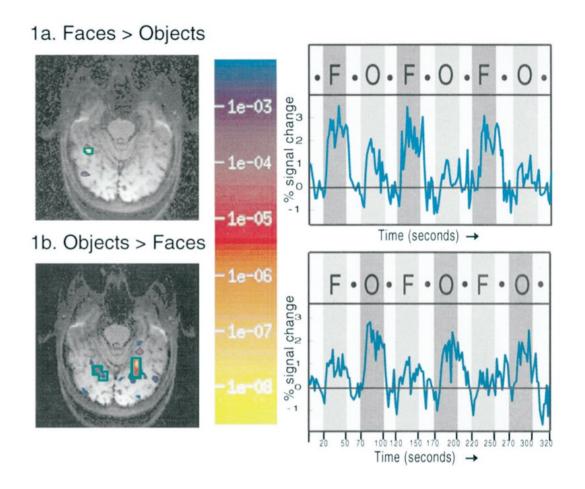
- Again, communicative history helps
- Pair-specificity of the conceptual pacts
- Assumptions about background knowledge

What did you observe?

- 1. Motivation for studying human interaction

 The "dark matter" of social neuroscience
- 2. Course expectations



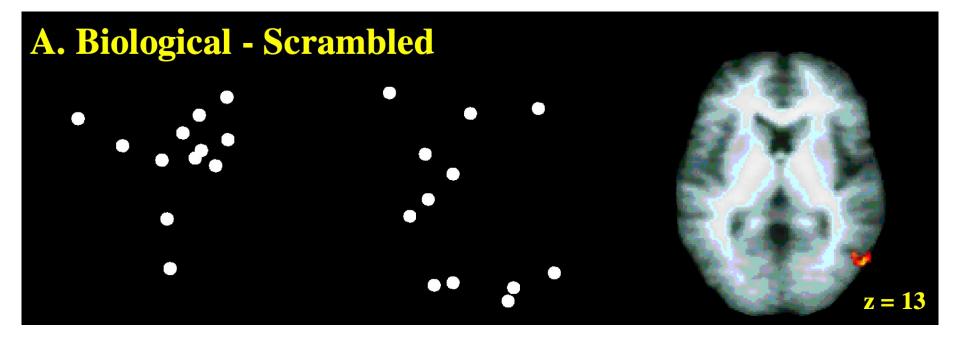


The Journal of Neuroscience, June 1, 1997, 17(11):4302-4311

The Fusiform Face Area: A Module in Human Extrastriate Cortex Specialized for Face Perception

Nancy Kanwisher, 1,2 Josh McDermott, 1,2 and Marvin M. Chun^{2,3}

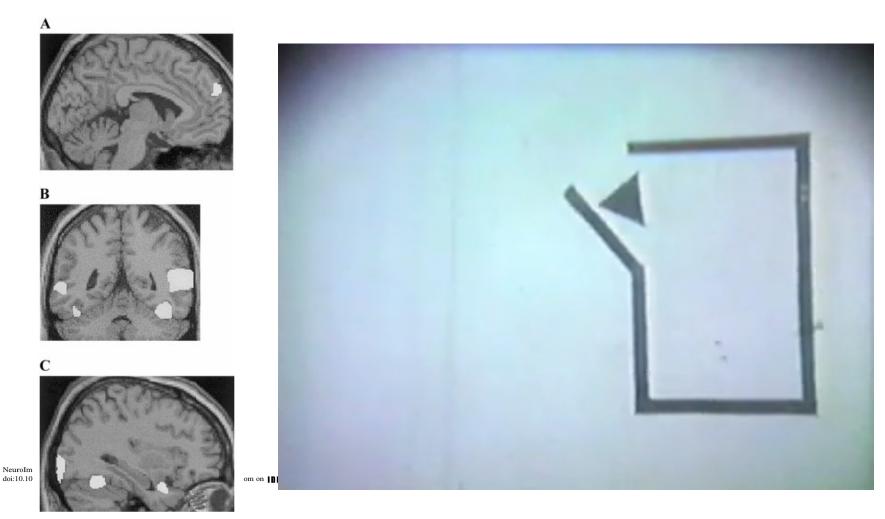
Social cognition as social recognition



Brain Areas Involved in Perception of Biological Motion

E. Grossman, M. Donnelly, R. Price, D. Pickens, V. Morgan, G. Neighbor, and R. Blake



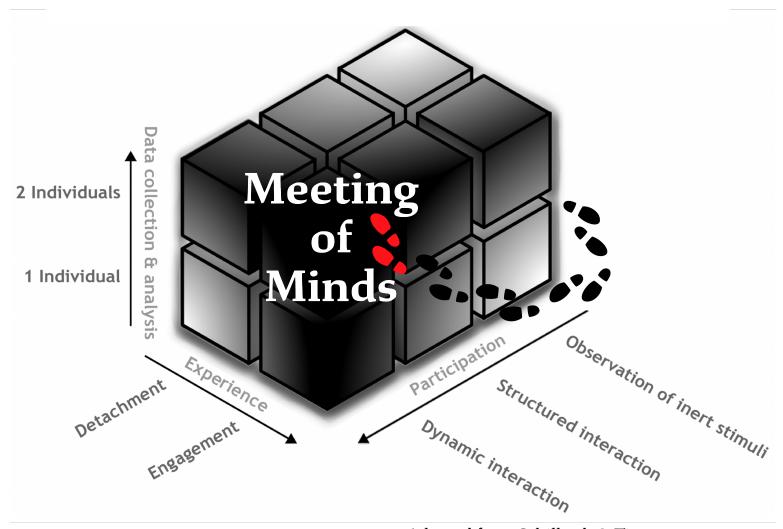


Movement and Mind: A Functional Imaging Study of Perception and Interpretation of Complex Intentional Movement Patterns

Fulvia Castelli,* Francesca Happé,† Uta Frith,* and Chris Frith;

Social cognition as mental state attribution





Adapted from Schilbach & Timmermans, 2013

The "dark matter" of social neuroscience

- 1. Motivation for studying human interaction

 The "dark matter" of social neuroscience
- 2. Course expectations

stolkarjen.github.io/human-interaction

Module I:

- Paper review
- Exam
- Exam questions (4)

Module II:

Research project

- •In the real-world, e.g., conversation analysis
- •In the lab, e.g., interpersonal synchrony, online communication, autistic misalignment
- •In simulated scenarios, e.g., artificial agents
- •On social media, e.g., conceptual pacts on Twitter/Reddit
- More on this later, in Module 2

- •Humans share a *special capacity* that enables them to use anything, including language and gestures, as a communicative tool
- •Social neuroscience has largely focused on how individuals process social stimuli, isolated from the context of interaction with others
- •Accordingly, how exactly human minds meet in interaction, also the dark matter of social neuroscience, has remained largely elusive



Beyond Alexa and Siri