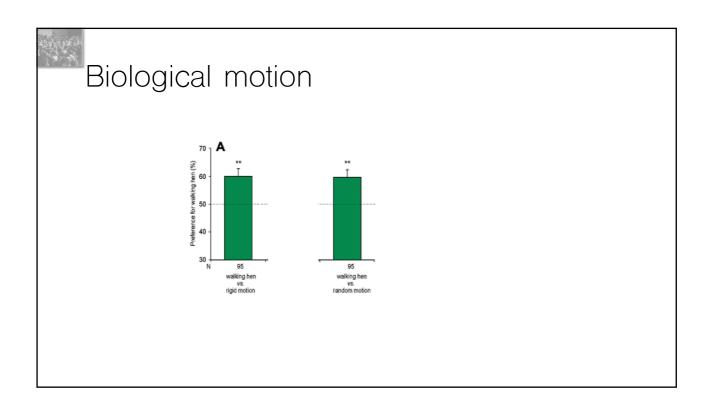
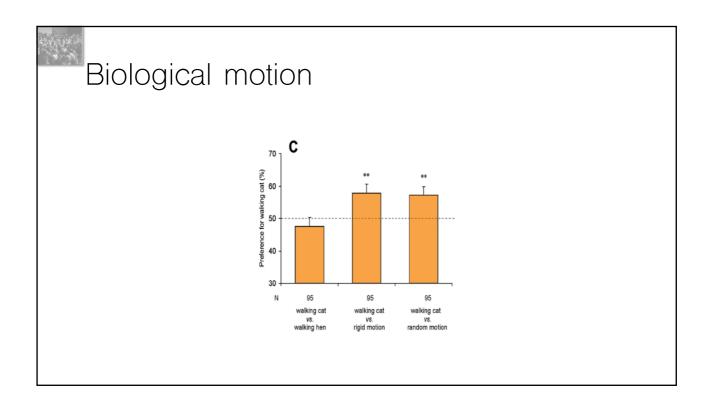
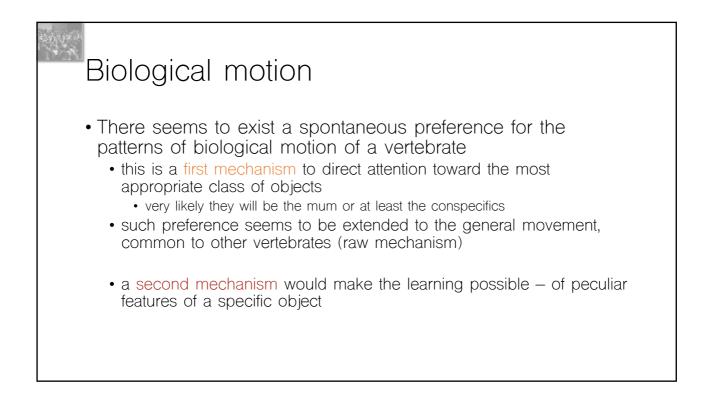


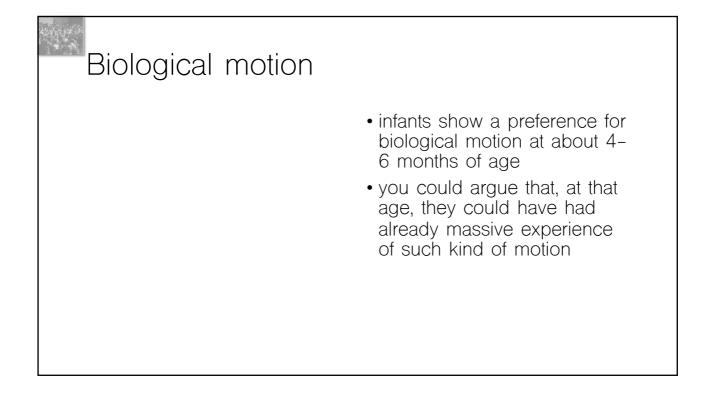
Biological motion – Johansson, 1973 in 200 ms we recongnise the movement of a human body. in 400 ms the peculiar activity in which he/she is engaged. we discriminate the gender, the emotional state, the degree of familiarity, the weight that is lifted up and several complex motor acts. different animal species

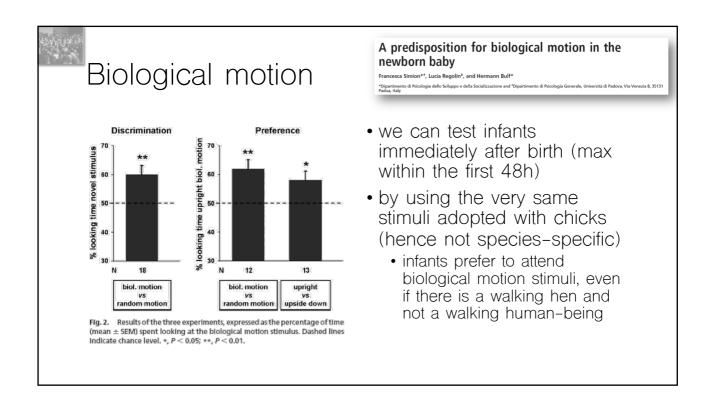
Biological motion It is so automatic that we can expect it to be an innate mechanism (as Johansson hypothesized) domestic chicks are the most suitable animal model to investigate this issue, «God's organims» [Rose, 2000] precocial rapid sensory-motor development tested immediately after hatching in the absence of previous visual esperience

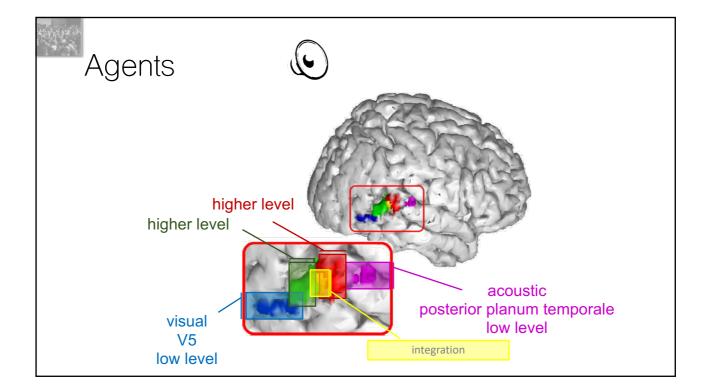


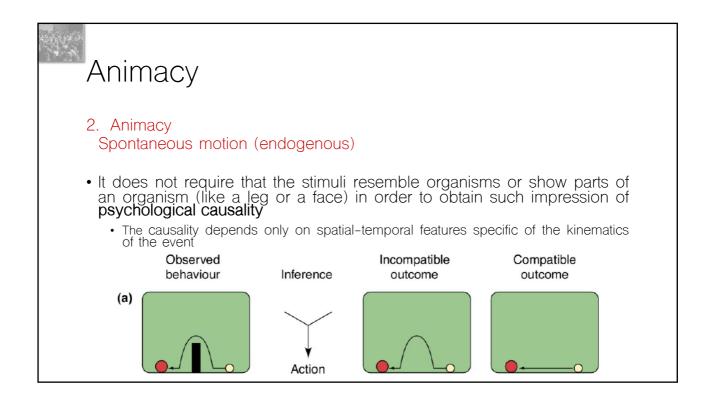


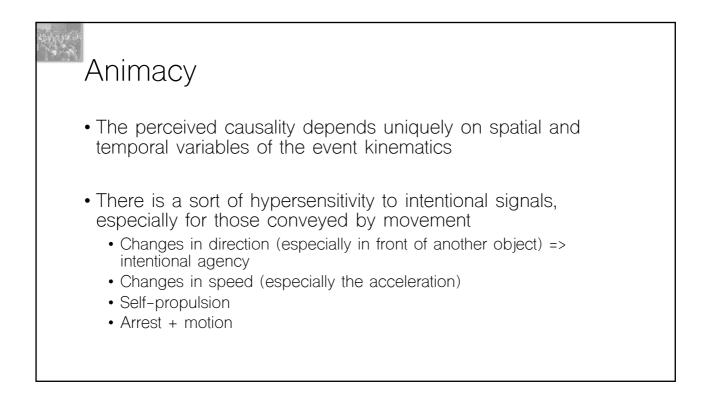


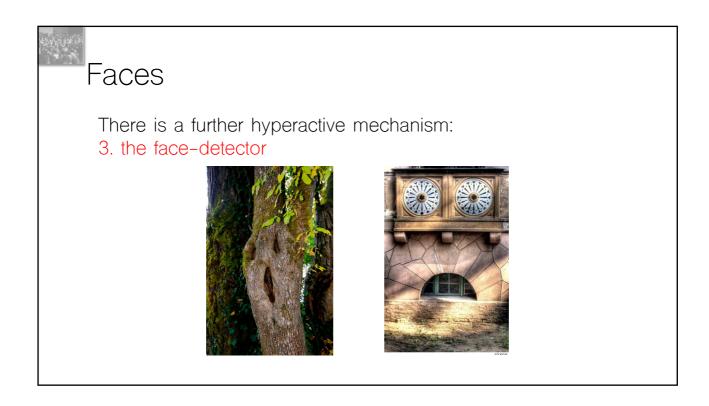


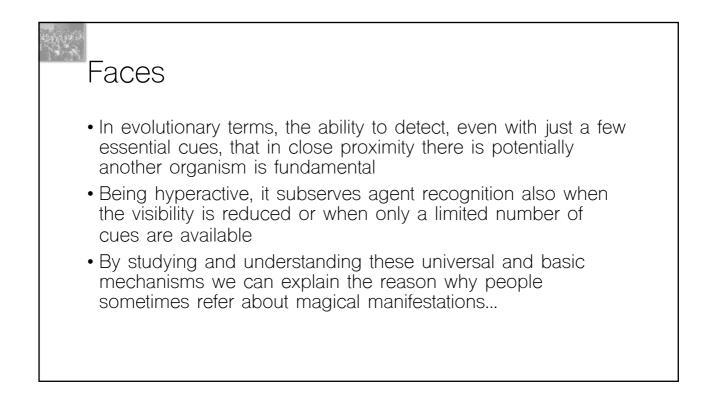














Primary emotions

- Ekman & Friesen (1967) asked to the members of a tribal population of Papua New Guinea to show a feeling with the facial mimic
- How would you expresss
 - A) The arrival of a friend and you are happy

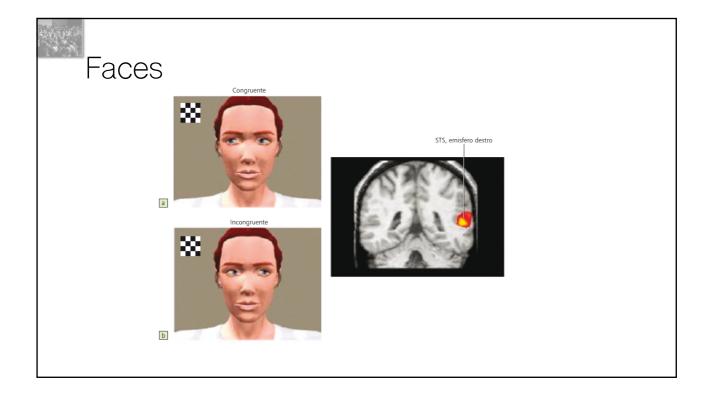
B) Your baby has died

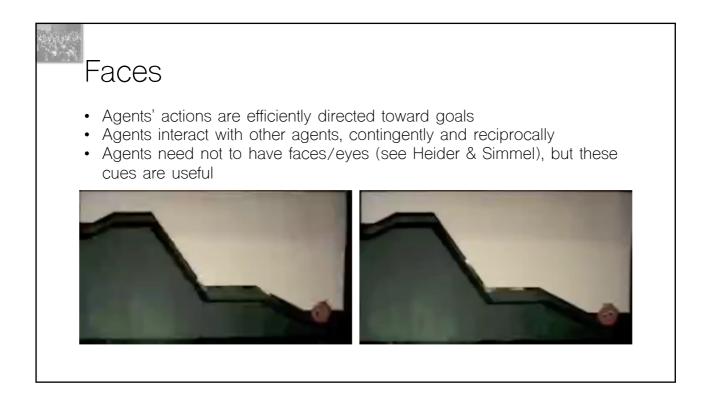
C) You are angry and ready to fight

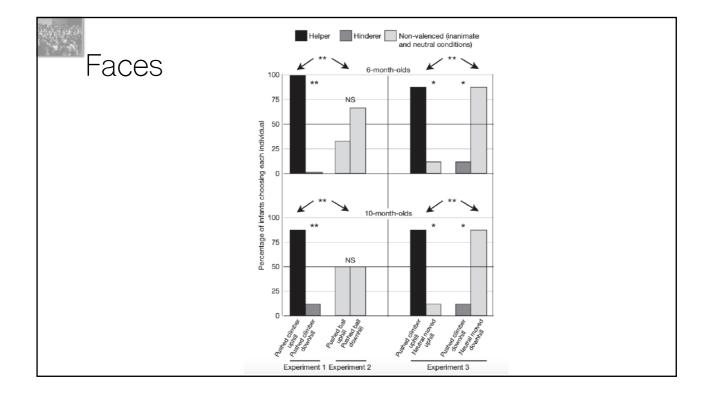
D) You see a died pig (long since)

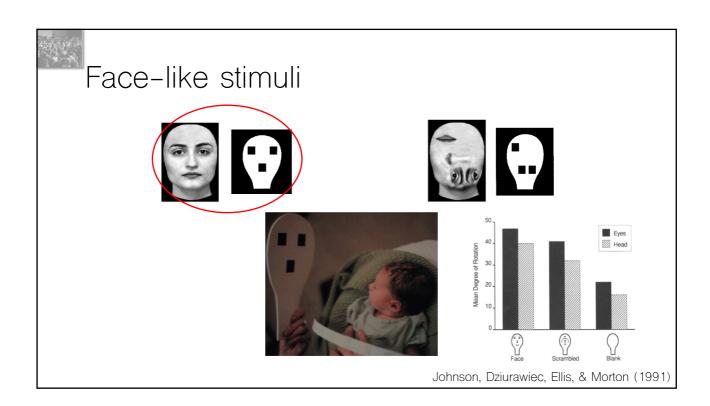


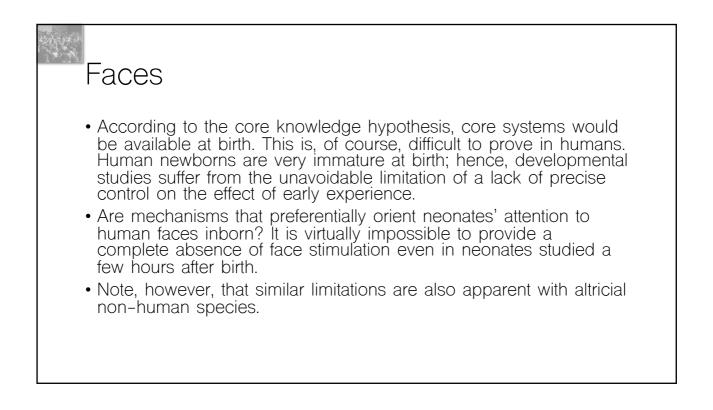


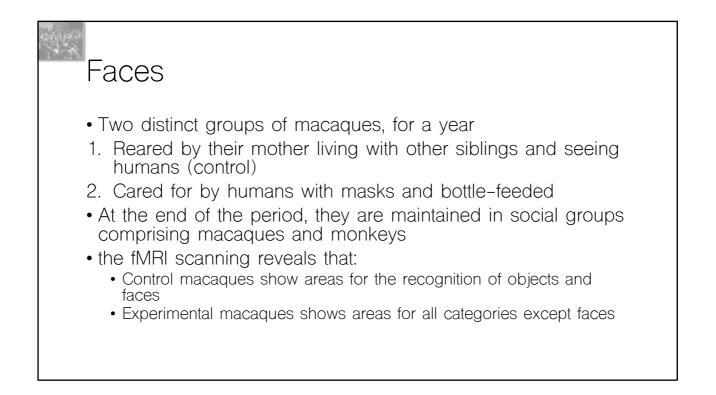


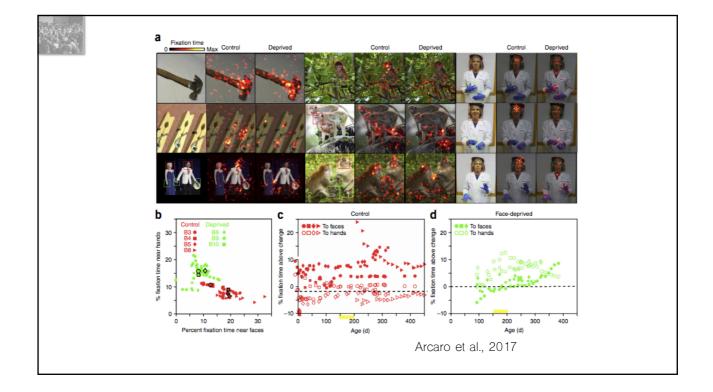


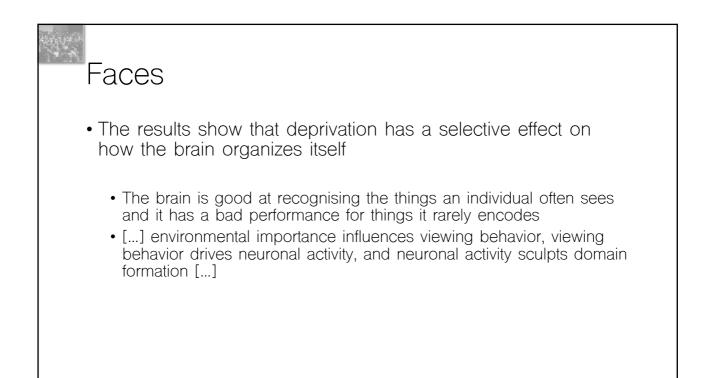


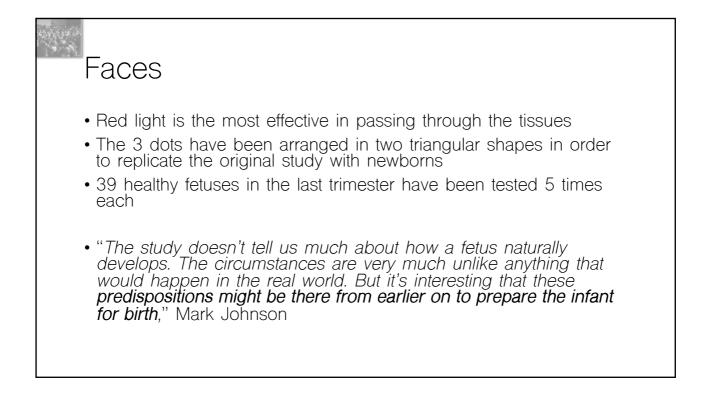


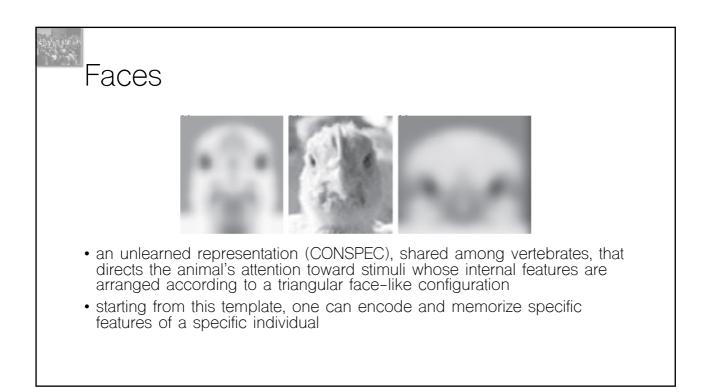


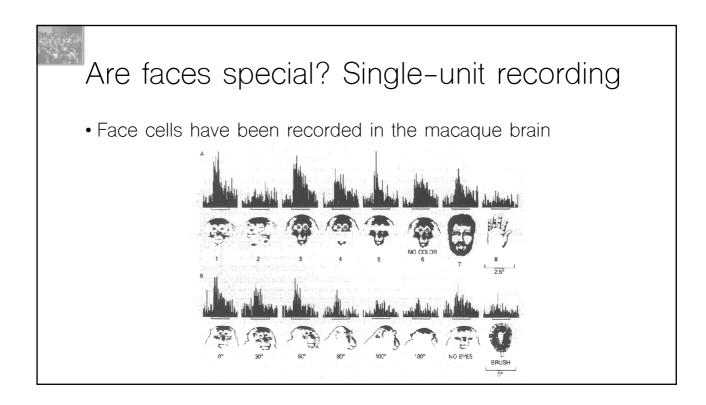


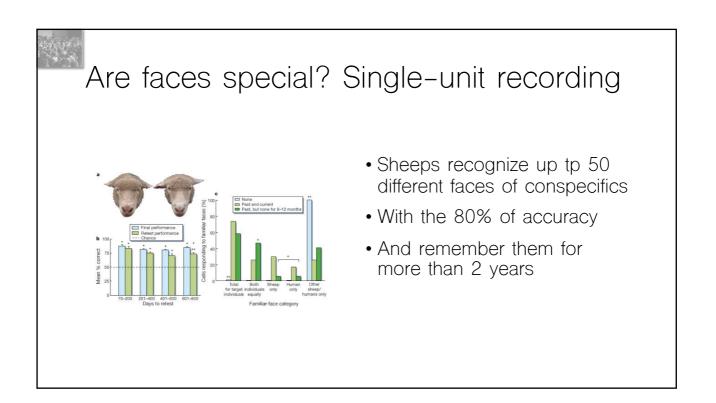


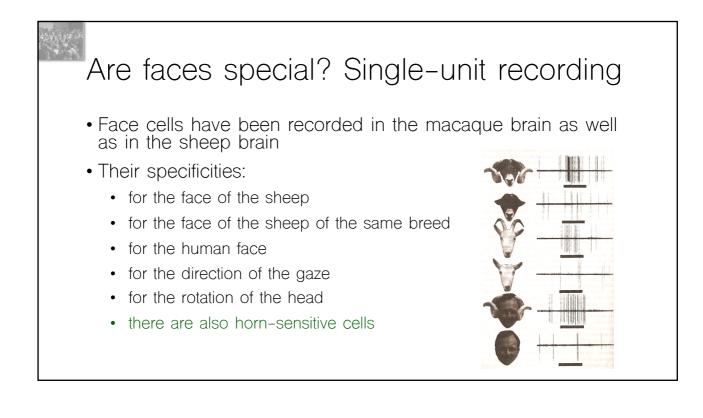


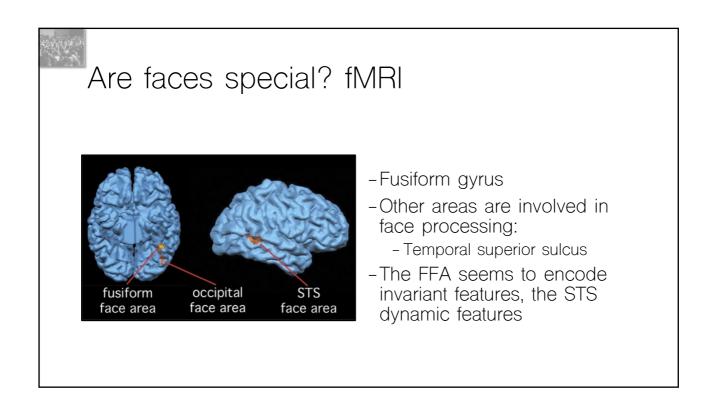


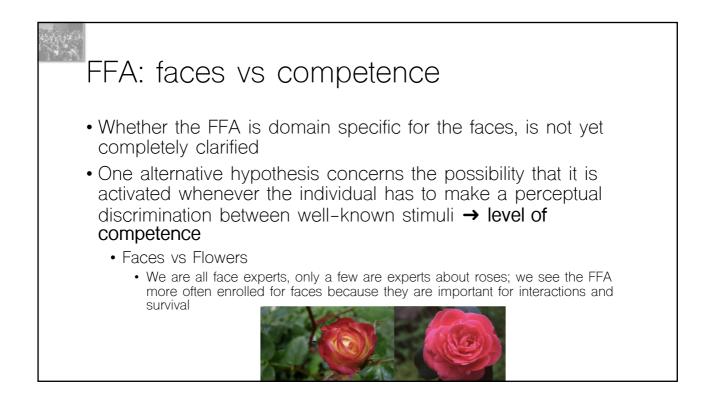


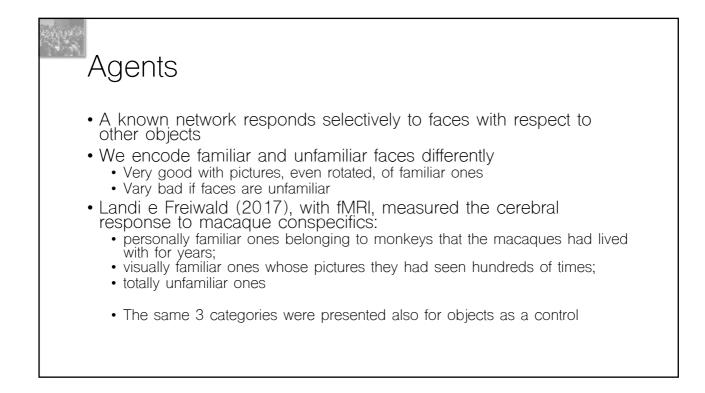


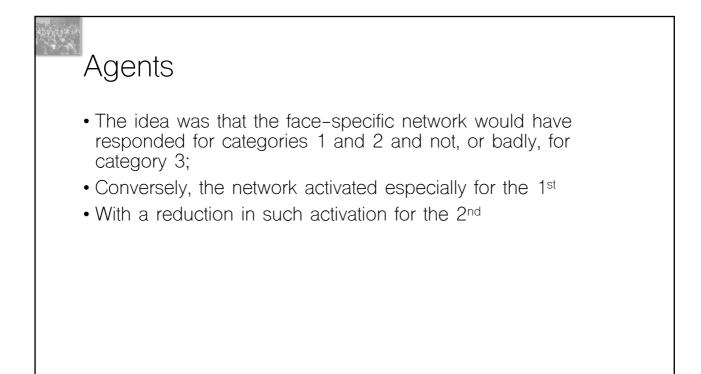


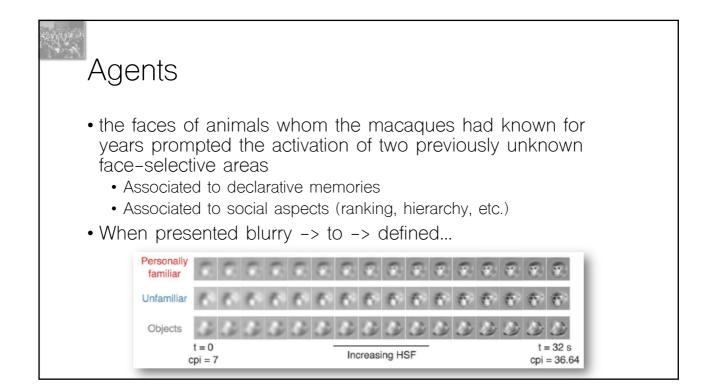


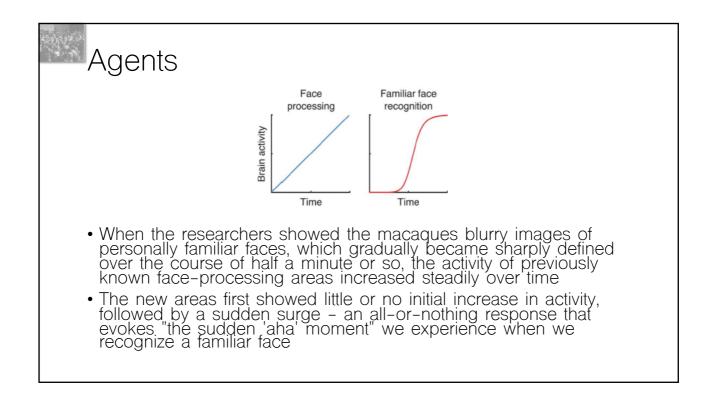


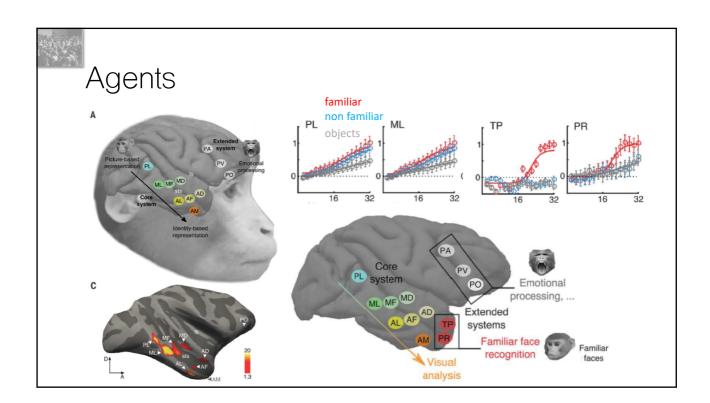


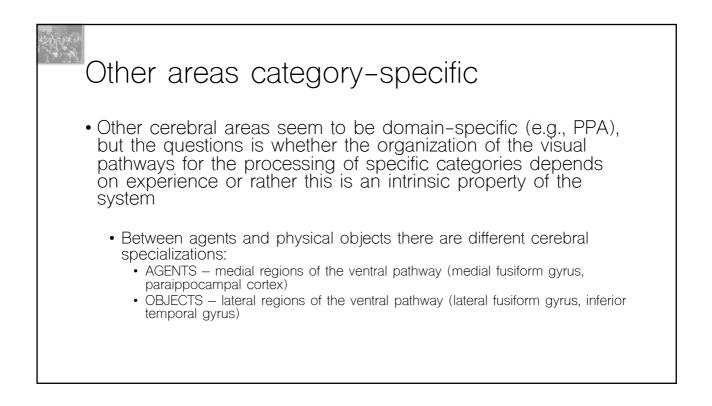


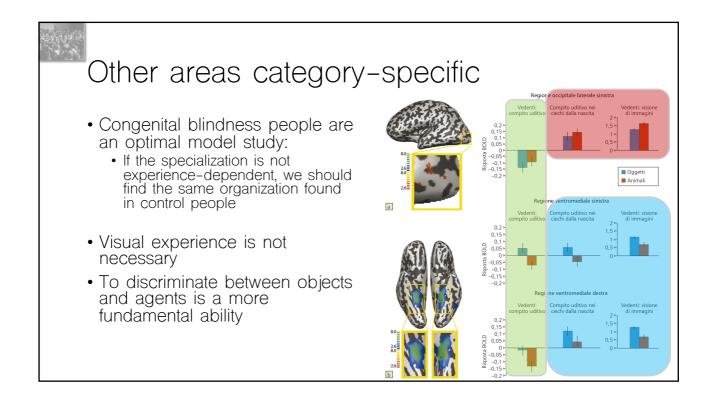


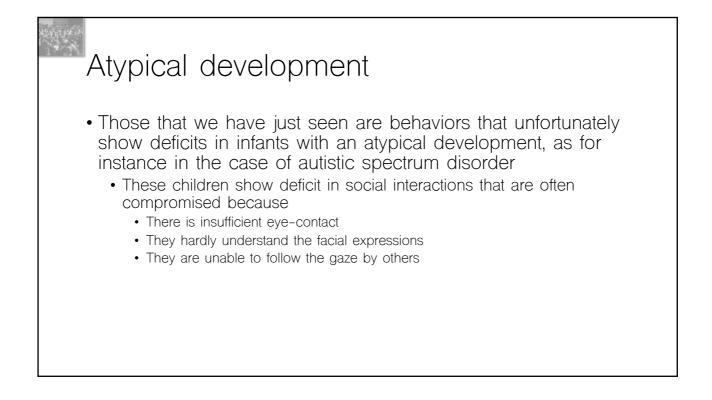




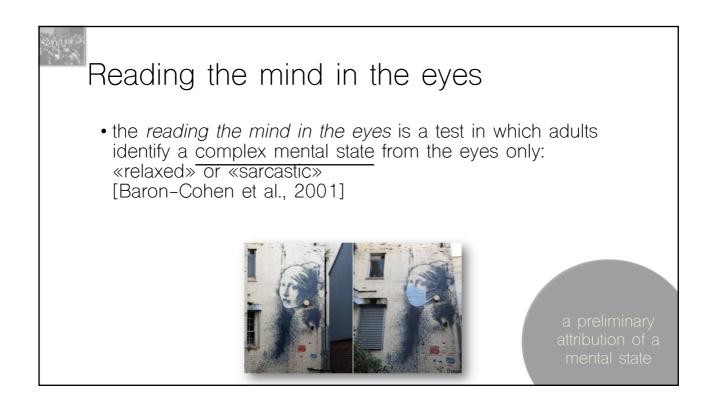


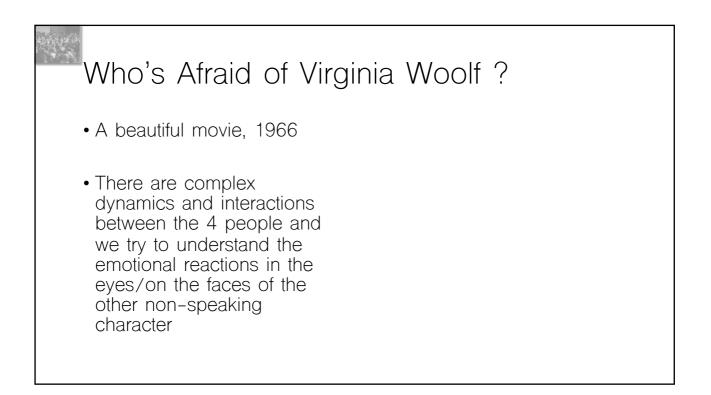


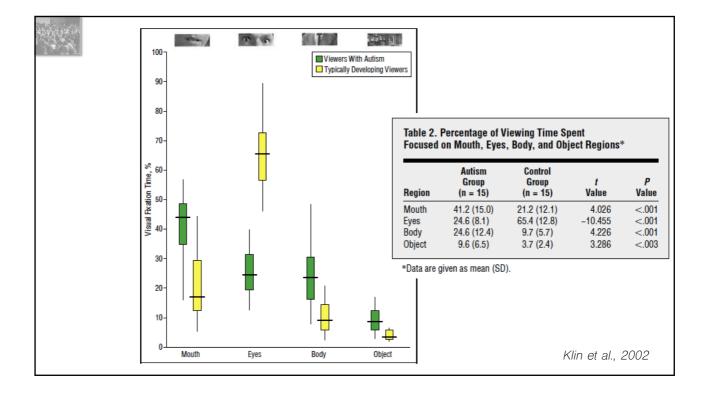


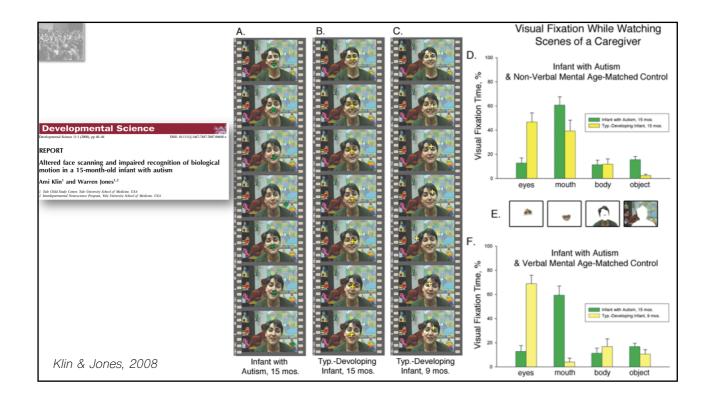


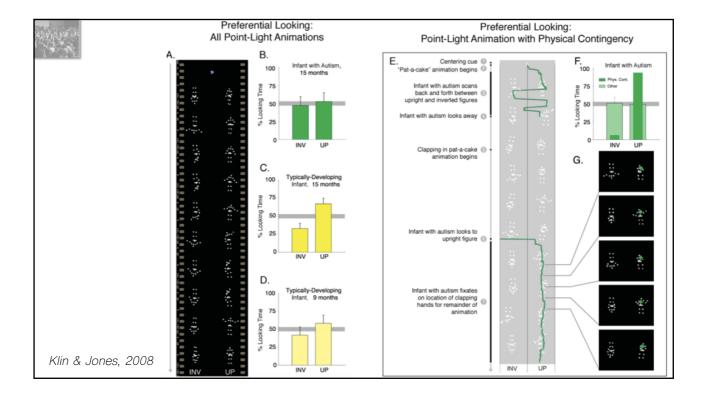






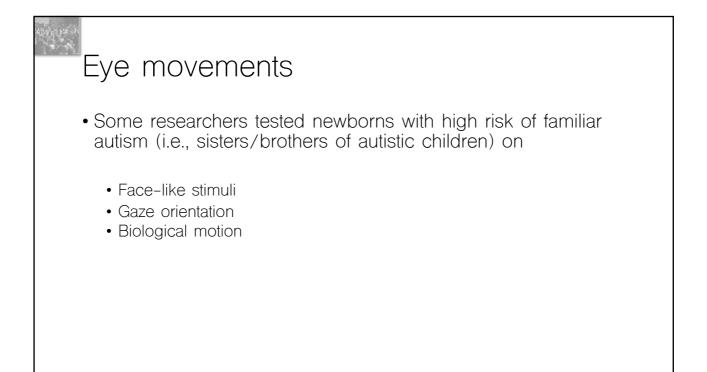


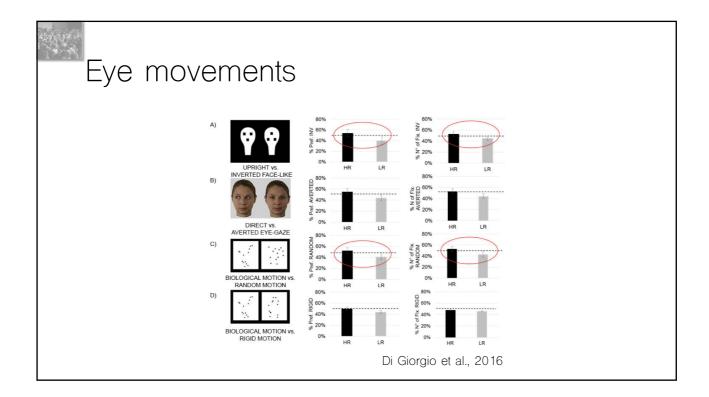


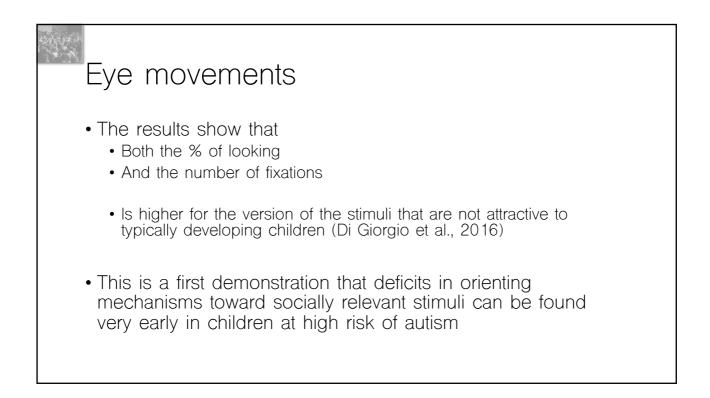


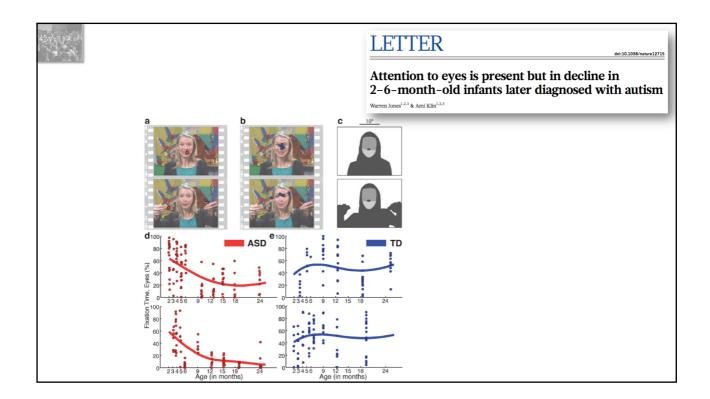


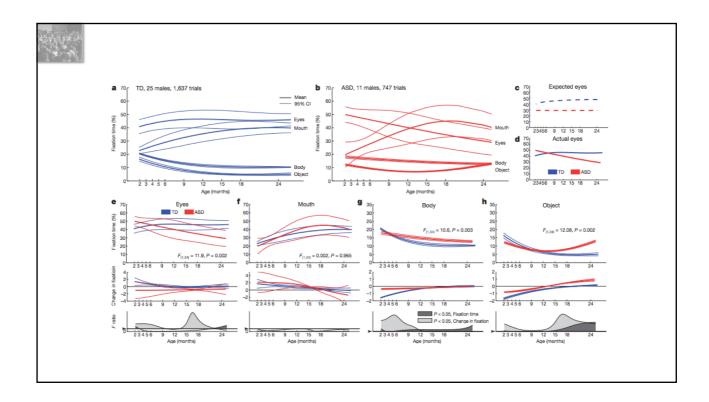
- trajectory: they have already learnt that the coincidence of light and sounds is more salient than other social info
- Eye fixation correlates with the level of social disability
 The lesser the eye fixation, the higher the disability (Jones et al., 2008)











Eye movements The results show that Eye gaze/fixation is an important signal The previous hypothesis is falsified There is a brief temporal window during which the process derails This is a first demonstration that deficits in orienting mechanisms toward socially relevant stimuli can be found

very early in children at high risk of autism

Core knowledge The criteria hypotheized by Spelke (2000) seem to be satisfied as for the system of knowledge that support our reasoning on the behaviour of agents: Given at birth Independent from experience and formal culture/acculturation Largely shared between species At the basis of learning processes