Infants' Generalization of Causal and Non-causal Actions Across Social Groups Lindsey J. Powell¹, Adena Schachner² & Elizabeth Spelke³ ¹Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology; ²Department of Psychological & Brain Sciences, Boston University; ³Department of Psychology, Harvard University

preverbal infants also expect common behaviors amongst social groups (Powell & Spelke, 2013).

separate core domains of social vs. agentic reasoning in infancy (Spelke, Bernier & Skerry, 2013).

Participants: 48 7.5- to 9.5-month-olds and 46 11.5- to 13.5-month-olds (The 24 infants in each age range assigned to the non-causal condition were reported in Powell & Spelke, 2013a, 2013b)

Introduction





Introduction: The two groups of characters took turns dancing in synchrony

characters from the other group slid back and forth on it.

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character matched its group (group consistent trials), and one did not (group inconsistent trials).

second time.

Results:

-There was a significant trial type x condition interaction, F(1,86)= 7.84, P < 0.01. There were no significant interactions with age.

-Infants in the non-causal condition looked significantly longer at group inconsistent trials, t(47) = 3.56, P < 0.001.

-In the causal condition, looking times to consistent and inconsistent trials did not differ significantly, t(45) = 0.09, P > 0.9.

Discussion: The reliable violation of expectation response that infants show to group inconsistent non-causal actions does not occur when they are presented with causal actions. Infants may interpret causal actions in terms of their instrumental goals rather than their social relevance.



Discussion: Although the results are weak, infants' reaction to the first test pair suggests the outcome of the causal actions does not prevent them from learning agent-action contingencies. The lack of effect in the second test pair may be a product of the individual actor's highly variable action profile across the two rounds of trials in this condition.

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