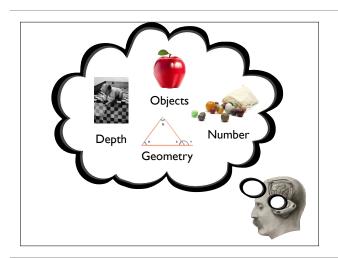
Our Moral Origins





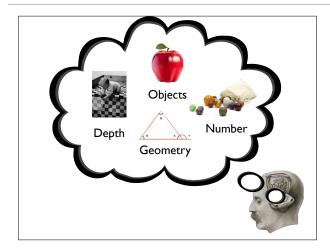
Addition and subtraction by human infants

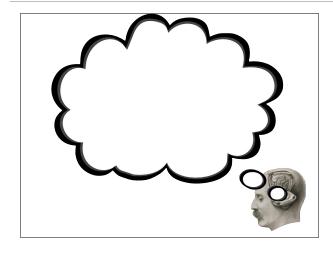
Karen Wynn

Department of Psychology, University of Arizona, Tucson, Arizona 85721, USA

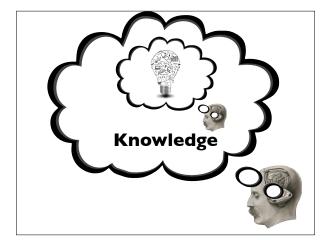
HUMAN infants can discriminate between different small numbers of items "-1, and can determine numerical equivalence across perceptual modalities. "6. This may indicate the possession of true numerical concepts. "4" Atternatively, purely perceptual discriminations may underlie these abilities. "5" This debate addresses the nature of subitization, the ability to quantify small numbers of items without conscious counting. "6.1." Subitization may involve the holistic recognition of canonical perceptual patterns that do not reveal ordinal relationships between the numbers. "6" or may instead be an iterative or 'counting' process that specifies these numerical relationships. "13" Here I show that 5-month-old infants can calculate the results of simple arithmetical operations on small numbers of items. This indicates that infants possess true numerical concepts, and suggests that humans are innately endowed with arithmetical abilities. It also suggests that subitization is a process that encodes ordinal information, not a pattern-recognition process yielding non-numerical percepts.

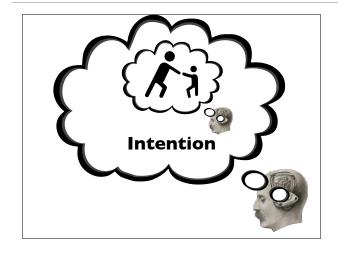


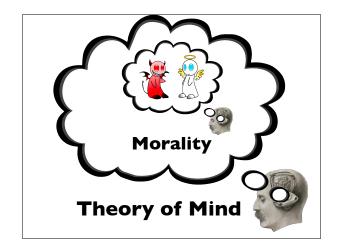












Egocentricism









Performance vs Competence



Do 15-Month-Old Infants **Understand False Beliefs?**

Kristine H. Onishi^{1*} and Renée Baillargeon²

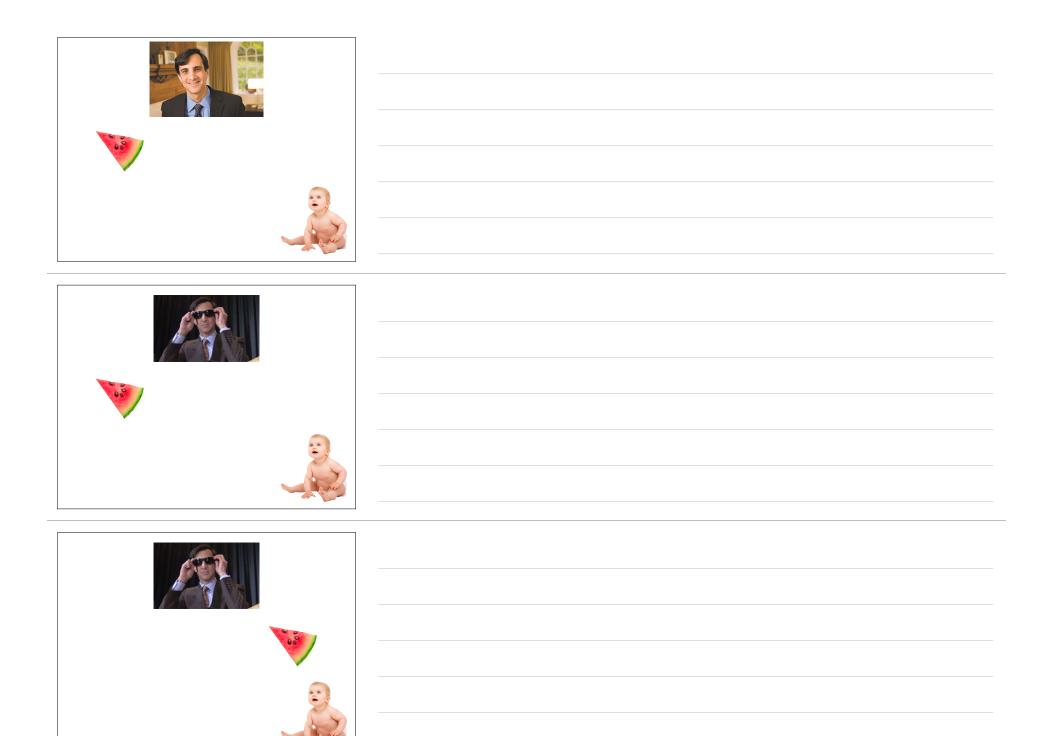
For more than two decades, researchers have argued that young children do not understand mental states such as beliefs. Part of the evidence for this standing that others may hold false beliefs. Here, we used a rowel non-vestual task to examine 15-month-old infants' ability to predict an actor's behavior on the basis of her turn of false belief about a tory's holding place. Results were positive, supporting the view that, from a young age, children appeal to mental seates—goals, preceptions, and beliefs—to explain the subvivoir of others.

Consider the following situation: A clisic was a water of the consideration of the first characteristic of the consideration of the consideration of the first characteristic of the consideration of the first characteristics of the consideration of the first characteristics of the consideration of the consideration of the first characteristics of the consideration of the first characteristics of the consideration of the consideration of the first characteristics of the consideration of the consideration of the first characteristics of the consideration of the consideration of the first characteristics of the consideration of the con

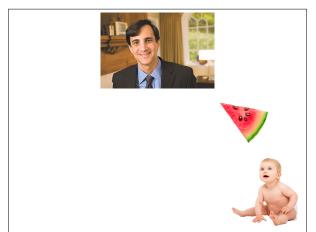












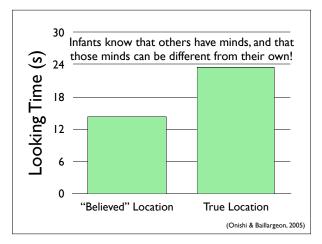












What kinds of minds?

Social evaluation by preverbal infants

J. Kiley Hamlin¹, Karen Wynn¹ & Paul Bloom¹

The capacity to evaluate other people is assential for novigating the social world. Hemmen must be able to secure the extinous and interiors of the people secured them, and must be excurate decisions done who is friend and who is for, who is an appropriate social expective to interior in the property of the first production of the people in the property of the first principles and the property of the first principles and the property of the first principles and automatically on the property of the first production of the second property of the first production of the property of the first property of the first property of the first property of the first property of the property of the



Babies know "good" from "bad" (and **prefer** good!)

The native language of social cognition

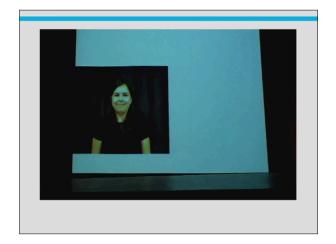
Katherine D. Kinzler*†, Emmanuel Dupoux^{‡5}, and Elizabeth S. Spelke*†

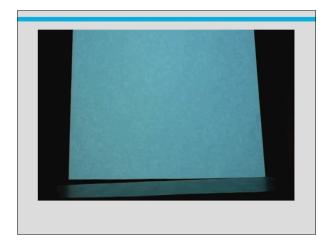
*Department of Psychology, Harvard University, Cambridge, MA 02138; *Laboratoire de Sciences Cognitives et Psycholinguistiques, Ecole des Hautes Etudes en Sciences Sociales, Département d'Études Cognitives, Ecole Normale Supérieure, Centre National de la Recherche Scientifique, 75005 Paris, France; and Matternité Port Reyol-Cochin, Assistence Publique Hospitzus de Paris, Université Rend Decarte Paris V, 75005 Paris, France

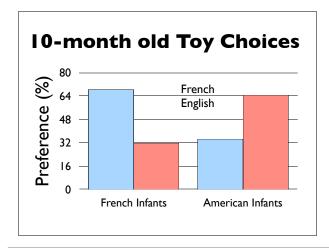
Contributed by Elizabeth S. Spelke, June 9, 2007 (sent for review April 4, 2007)

PNAS

Contributed by Ellacheth S. Spillach, June 9, 2007 (pert for review April 4, 2007)
White lated, humans to diside the souls of using surgue, performing their own group and distreving other? Experiments with infants and young children suggest these tendencies are based on perfect and young children suggest these tendencies are based on perfect and performent performance of a spensor who previously contributed in the performance of the performance o







Later this semester...





Today...





Moral Diversity

major

sexual orientation ethnic background

view on abortion

Differentiating Diversities: Moral Diversity Is Not Like Other Kinds¹

JONATHAN HAIDT, 2 EVAN ROSENBERG, AND HOLLY HOM University of Virginia

Diversity is widely celebrated in American society. But from a social psychological point of view, diversity ought to cause a number of problems, such as divisiveness and conflict. A resolution of this paradox is proposed: There are several kinds of diversity, with different profiles of costs and benefits, in particular, moral diversity is identified as being problematic and even self-contraditory. Three studies of attitudes and desires for interaction among college students confirmed that moral diversity reduces desires for interaction more than does demographic diversity, and that both kinds of diversity are dualed more in a classroom than in other social settings. These findings have important implications for discussions of diversity, multiculturalism, affirmative action, identity politics, and immigration policy.

gration polic,

a classroom than in other social settings. These findings have important implications for discussions of diversity, multiculturalism, affirmative action, identity politics, and immi-

What is morality even about?









Greg Johnson (of Texas vs. Johnson)



Moral Foundations

Harm
Fairness
Group Loyalty
Authority
Purity

Moral Foundations

Harm

Fairness

Group Loyalty

Authority

Purity

Moral Foundations



Group Loyalty Authority

"independent-minded and relates to its owner as a friend and equal" "extremely loyal to its home and family, and doesn't warm up quickly to strangers"

OK or NOT OK?

ATTITUDES AND SOCIAL COGNITION

Affect, Culture, and Morality, or Is It Wrong to Eat Your Dog?

Jonathan Haidt, Silvia Helena Koller, and Maria G. Dias

Are disgusting or disrespectful actions judged to be moral violations, even when they are harmless? Stories shout victimiles set offensive actions (such as cleaning one's tollet with a flag were premented to Brazilian and LIS, admits and children of slight and to resoluce-occoronic status (** 560), convention or of personal preference. Most other Sc. operculally in Brazil, took as mentaling stance toward these actions. For these latter Sc., most judgment were better predicted by affective convention or of personal preference. Most other Sc. operculally in Brazil, took as mentaling stance toward these actions. For these latter Sc., most judgment were better predicted by affective statements of the standard statement of the standard statement of cultural psychology (R. A. Stewbedz, 1991) and august that clutural norms and outlurally shaped emotions have a substantial impact to the domain of morally and the process of moral judgment. Suggestions are made for building consociationally with a model of moral judgment.

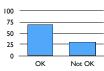
building cross-cuiturally valid models of moral judgment.

Shweder, 1991 a) and suggest that cultural norms and culturally shaped emotions have a substantial impact on the domain of morality and the process of moral judgment. Suggestions are made for

OK or NOT OK?

Can there be "victimless crimes"?

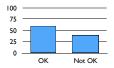
A woman is cleaning out her closet, and she finds her old American flag. She doesn't want the flag anymore, so she cuts it up into pieces and uses the rags to clean her bathroom.



Haidt et al. (1993)

Can there be "victimless crimes"?

A woman was dying, and on her deathbed she asked her son to promise that he would visit her grave every week. The son loved his mother very much, so he promised to visit her grave every week. But after the mother died, the son didn't keep his promise, because he was very busy.



Haidt et al. (1993)

Can there be "victimless crimes"?

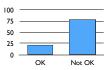


A family's dog was killed by a car in front of their house. They had heard that dog meat was delicious, so they cut up the dog's body and cooked it and ate it for dinner.

Haidt et al. (1993)

Can there be "victimless crimes"?

A brother and sister like to kiss each other on the mouth. When nobody is around, they find a secret hiding place and kiss each other on the mouth, passionately.



Haidt et al. (1993)

Emotion vs. Reason The trolley problem OK or not OK? A. OK B. Not OK Emotion vs. Reason The **trolley problem**

OK or not OK?

A. OK

B. Not OK

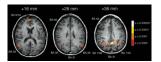


deontology rules and obligations

utilitarianism

"the greatest good for the greatest number"





An fMRI Investigation of Emotional Engagement in Moral Judgment

Joshua D. Greene, 1,24 R. Brian Sommerville, 1 Leigh E. Nystrom, 1,3 John M. Darley, 3 Jonathan D. Cohen 1,3,4

The long-it schooling distinuist of sales have in moral psychology emphasizes for the relation of the control of the control

we argue that mote disemmas vary systematically in the extent to which they engage emotional processing and that these variations in emotional engagement influence moral judgment. These results may shed light on some puzzling patterns in moral judgment observed by contemporary philosophers.