LECTURE 4

Emotion, Intuition, Reason

Major questions

- Is Moral decision-making and judgment dependent on rational deliberation?
- What is the role of emotion in moral decision-making?
- Why it matters
 - Moral justification and moral knowledge (warranted reasons for actions)
 - Moral realism knowing vs. feeling (are emotions source of knowledge?)
 - Moral disagreement rational appeals to belief revision?

What is ethics for?

Knowing vs. doing...

- Epistemic functionalism the larger structure is a person's representation of the world, and moral thinking is done in order to improve the accuracy and completeness a moral agent's representation of the world
- social functionalism moral thinking is done in order to help the social agent succeed in the social order they are embedded in (instrumentalism)

Example views - Emotion

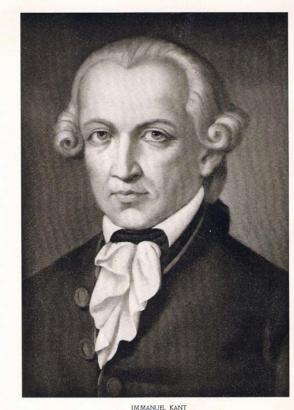
- David Hume (1711-1776), Adam Smith (1723-1790)
 - Principle of sympathy:
 - How selfish soever man may be supposed, there are evidently some principles in his nature, which interest him in the fortunes of others, and render their happiness necessary to him, though he derives nothing from it, except the pleasure of seeing it. Of this kind is pity or compassion, the emotion we feel for the misery of others, when we either see it, or are made to conceive it in a very lively manner. That we often derive sorrow from the sorrows of others, is a matter of fact too obvious to require any instances to prove it; for this sentiment, like all the other original passions of human nature, is by no means confined to the virtuous or the humane, though they perhaps may feel it with the most exquisite sensibility Theory of Moral Sentiments

Contemporary

- Antonio Damasio neurologist (Descartes' Error) Somatic Marker Hypothesis
- Jonathan Haidt social intuitionism

Example Views - Cognitive

- Immanuel Kant (1724-1804)
 - Moral duties are based on considerations of rationality (categorical imperative)
 - Act only according to that maxim whereby you can at the same time will that it should become a universal law without contradiction.
 - Moral agents are beings who are capable of guiding their own behavior on the basis of directives, principles and laws of rationality
- Lying "it is good to lie" can this be a universal law without contradiction?



MMANUEL KANT From a painting

Example Views - Cognitive

- Lawrence Kohlberg (1927-1987) developmental moral psychologist
 - Heinz's wife was near death, and her only hope was a drug that had been discovered by a pharmacist who was selling it for an exorbitant price. The drug cost \$20,000 to make, and the pharmacist was selling it for \$200,000. Heinz could only raise \$50,000 and insurance wouldn't make up the difference. He offered what he had to the pharmacist, and when his offer was rejected, Heinz said he would pay the rest later. Still the pharmacist refused. In desperation, Heinz considered stealing the drug. Would it be wrong for him to do that?

six stages of moral reasoning:

- Stage one (obedience): Heinz should not steal the medicine because he will consequently be put in prison which will mean he is a bad person. Or: Heinz should steal the medicine because it is only worth \$20,000 and not how much the druggist wanted for it; Heinz had even offered to pay for it and was not stealing anything else.
- Stage two (*self-interest*): Heinz should steal the medicine because he will be much happier if he saves his wife, even if he will have to serve a prison sentence. Or: Heinz should not steal the medicine because prison is an awful place, and he would more likely languish in a jail cell than over his wife's death.
- Stage three (conformity): Heinz should steal the medicine because his wife expects it; he wants to be a good husband. Or: Heinz should not steal the drug because stealing is bad and he is not a criminal; he has tried to do everything he can without breaking the law, you cannot blame him.
- Stage four (*law-and-order*): Heinz should not steal the medicine because the law prohibits stealing, making it illegal. Or: actions have consequences.
- Stage five (human rights): Heinz should steal the medicine because everyone has a right to choose life, regardless of the law. Or: Heinz should not steal the medicine because the scientist has a right to fair compensation. Even if his wife is sick, it does not make his actions right.
- Stage six (*universal human ethics*): Heinz should steal the medicine, because saving a human life is a more fundamental value than the property rights of another person. Or: Heinz should not steal the medicine, because others may need the medicine just as badly, and their lives are equally significant.

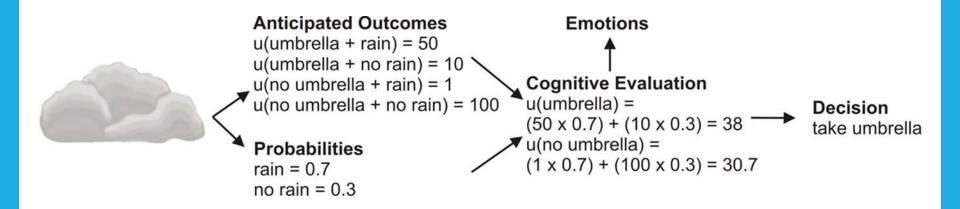
Deliberative cognition



- Only one disk may be moved at a time.
- Each move consists of taking the upper disk from one of the rods and sliding it onto another rod, on top of the other disks that may already be present on that rod.
- No disk may be placed on top of a smaller disk.

Bentham's Central Aim

- Notions of utility were popular in Bentham's day (and before).
- Bentham's aim was to reduce utility to a single measure and develop a method for measuring it.
- Moral science to be based on a hedonic calculus.



Moral Intuition

- Julie and Mark are brother and sister. They are travelling together in France on summer vacation from college. One night they are staying alone in a cabin near the beach. They decide that it would be interesting and fun if they tried making love. At the very least it would be a new experience for each of them. Julie was already taking birth control pills, but Mark uses a condom too, just to be safe. They both enjoy making love, but they decide not to do it again. They keep that night as a special secret, which makes them feel even closer to each other.
 - What do you think about that? Was it OK for them to make love? (Haidt, 2001, p. 814)

Haidt's social intuitionism

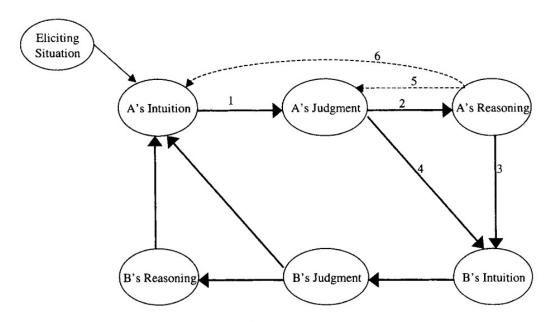


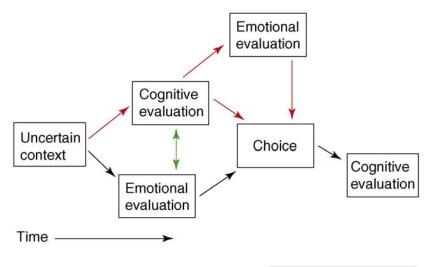
Figure 2. The social intuitionist model of moral judgment. The numbered links, drawn for Person A only, are (1) the intuitive judgment link, (2) the post hoc reasoning link, (3) the reasoned persuasion link, and (4) the social persuasion link. Two additional links are hypothesized to occur less frequently: (5) the reasoned judgment link and (6) the private reflection link.

New Synthesis: INTUITIVE PRIMACY

- 1. People Make Rapid Evaluative Judgments of Others
- 2. Moral Judgments Involve Brain Areas Related to Emotion
- 3. Morally Charged Economic Behaviors Involve Brain Areas Related to Emotion
- 4. Psychopaths Have Emotional Deficits
- 5. Moral Perceptual Abilities Emerge in Infancy
- 6. Manipulating Emotions Changes Judgments
- 7. People Sometimes Can't Explain Their Moral Judgments
- 8. Reasoning Is Often Guided by Desires
- 9. Research in Political Psychology Points to Intuitions, Not Reasoning
- 10. Research on Prosocial Behavior Points to intuitions, Not Reasoning

Some intuitions

- emotional processes underlie rapid, basic, and automatic evaluations
- low-level processes that elicit strong valenced and stereotyped behavioral responses
- reflect a speed/accuracy tradeoff whereby behavioral options are evaluated only with sufficient resolution to bias behavior in a generally adaptive manner, often described as a crude biasing signal or a heuristic (JDM).
- In cognitive processes are regarded as integrating information regarding the dimensions of risky choices according to some expectation-based calculus, or cost-benefit analysis & are typically regarded to involve controlled processes and are sequential and rule-based



TRENDS in Cognitive Sciences

Dual Systems

Table I General Features of the Two Systems

The intuitive system

Fast and effortless

Process is unintentional and runs automatically Process is inaccessible; only results enter awareness

Does not demand attentional resources

Parallel distributed processing

Pattern matching; thought is metaphorical, holistic

Common to all mammals

Context dependent

Platform dependent (depends on the brain and body that houses it)

The reasoning system

Slow and effortful

Process is intentional and controllable

Process is consciously accessible and viewable

Demands attentional resources, which are limited

Serial processing

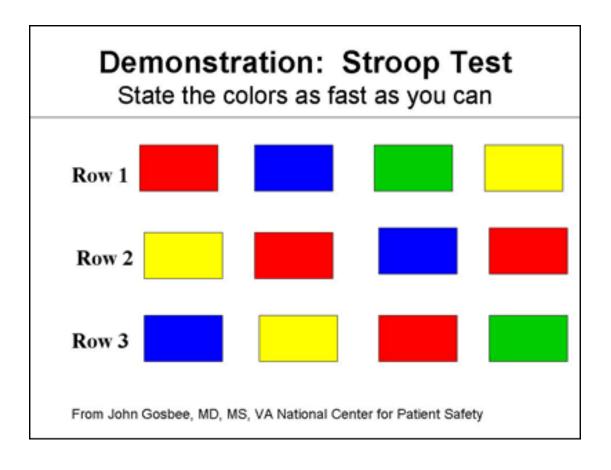
Symbol manipulation; thought is truth preserving, analytical

Unique to humans over age 2 and perhaps some language-trained apes

Context independent

Platform independent (the process can be transported to any rule following organism or machine)

Example: Conflict - Stroop



Stroop

Now state the colors as fast as you can

Row 1 Red Blue Green Yellow

Row 2 Yellow Green Blue Red

Row 3 Green Red Yellow Blue

From John Gosbee, MD, MS, VA National Center for Patient Safety

stroop

Again, state the colors as fast as you can

Row 1 Red Blue Green Yellow

Row 2 Yellow Green Blue Red

Row 3 Green Red Yellow Blue

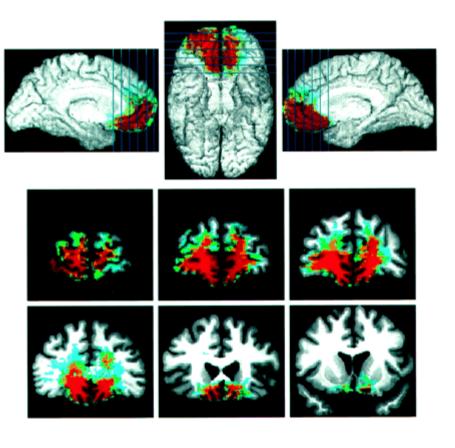
From John Gosbee, MD, MS, VA National Center for Patient Safety

Emotions in Contemporary science

- 1950s rise of cognitive science
 - Chomsky and language
 - Mental states are computational states
 - Thought = symbol manipulation (LOT)
 - Emphasis on problem solving
 - Newell & Simon's Logic Theorist (1955-56) first "Al" program designed to mimic (implement?) human problem-solving:
 - Proved 38 theorems of Principia Mathematica (23/100 nonfiction works of 20th century), one more elegantly than Russell & Whitehead (submitted to Journal of Symbolic Logic, rejected)
 - [We] invented a computer program capable of thinking non-numerically, and thereby solved the venerable mind-body problem, explaining how system composed of a matter can have the properties of mind Simon, 1956
 - Little room for emotions, which did not fit well with computation, emphasized emotions as normatively inadequate

Emotions reevaluated

Damasio's patients



Phineas Gage





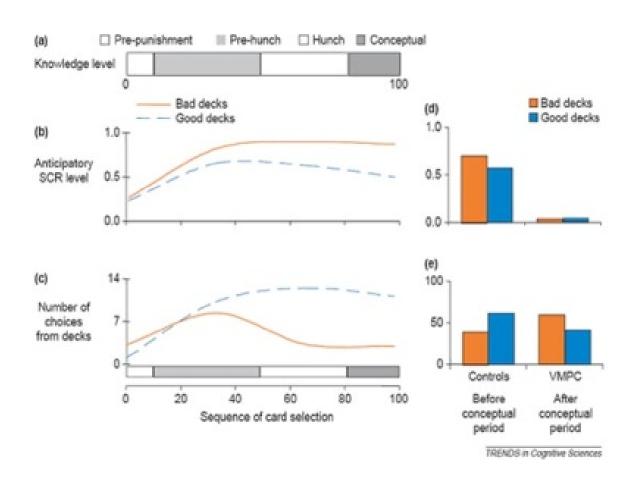
Bechara

• "Most theories of choice assume that decisions derive from an assessment of the future outcomes of various options and alternatives through some type of cost-benefit analyses. The influence of emotions on decision-making is largely ignored. The studies of decision-making in neurological patients who can no longer process emotional information normally suggest that people make judgments not only by evaluating the consequences and their probability of occurring, but also and even sometimes primarily at a gut or emotional level."

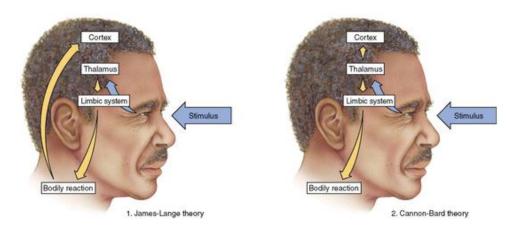
Iowa gambling task

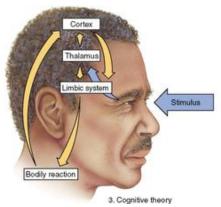


Intuition: doing without knowing?

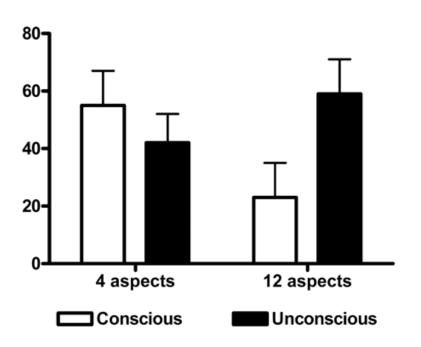


Cognitive vs somatic theory





Deliberation without attention?



- One car was characterized by 75% positive attributes, two by 50% positive attributes, and one by 25% positive attributes
- Percentage of participants who chose the most desirable car as a function of complexity of decision and of mode of thought

- The Hatsdun has good mileage
- The Hatsdun has good handling
- The Hatsdun has a large trunk
- The Hatsdun is very new
- The Hatsdun is available in many different colors
- For the Hatsdun service is excellent
- The Hatsdun has poor legroom
- With the Hatsdun it is difficult to shift gears
- The Hatsdun has cupholders
- The Hatsdun has a sunroof
- The Hatsdun is relatively good for the environment
- The Hatsdun has a poor sound system

6 or 7 Universal emotions

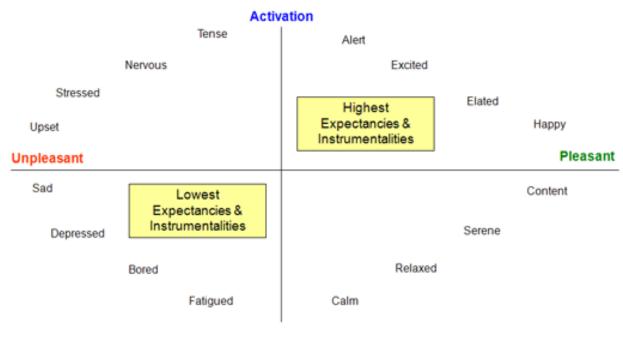


2 additional emotions



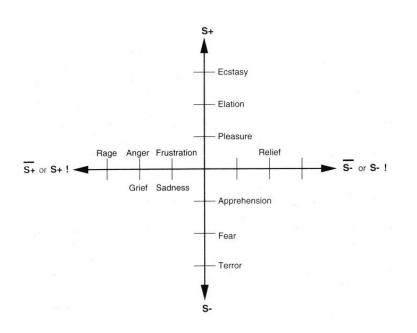


Do emotions have structure?



Deactivation

Reward & emotions

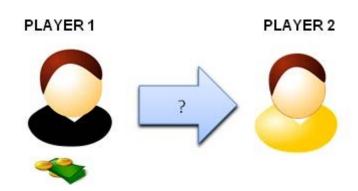


- 1. the presentation of a positive reinforcer S+
- 2. the presentation of a negative reinforcer S-
- 3. the omission of a positive reinforcer S+
- 4. the termination of a positive reinforcer S+!
- 5. the omission of a negative reinforcer S-
- 6. the termination of a negative reinforcer S-!

A Framework for Human Social Exchange

- the framework of behavioral game theory: How games are actually played
 - Driven by models of normal human thinking
 - Disciplined by experimental rigor and formal models
 - Utilizes real monetary payoffs (+/-)
 - Moral notions pervade BGT (e.g., selfishness, altruism, cooperation, trust, punishment, fairness, reciprocity)
 - Emphasis on action avoid potential confound of invoking goal system by task features/demands (moral judgment/scenarios)

Dictator Game



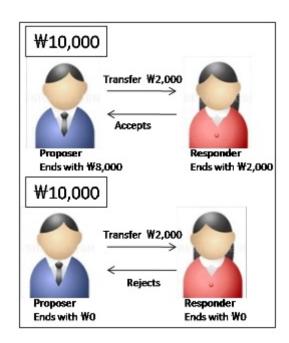
- No strategic interaction player 2 has no say in how the money is distributed
- Play is anonymous
- Only 40% of players (player 1) keep the entire sum
- On average, players transfer ~20% to player 2
- Different scenarios give different results

 how blind the conditions are (do the experimenters know the distribution)
- If both players must first take a quiz to participate, but only player 1 is given the allocation, the transfer rate increases.
 But if only player 1 must do some work for the money, the transfer rate decreases

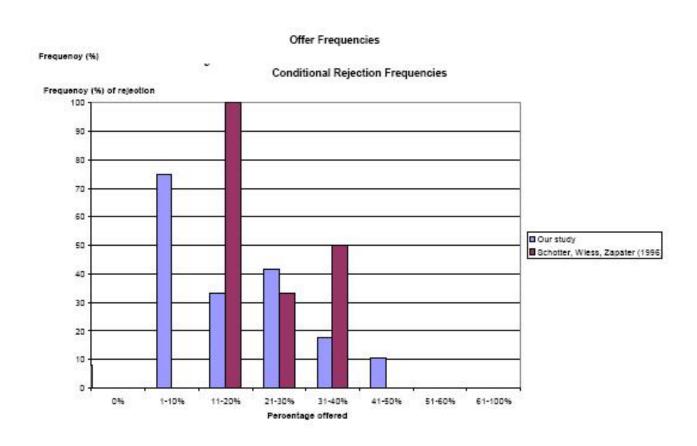
16th ANNUAL CONFERENCE OF THE INTERNATIONAL SOCIETY FOR BIPOLAR DISORDERS Seoil, South Kinns March 16-72, 2014

Ultimatum game

- Proposer vs. Responder
- Proposer: divide \$10 into 2 shares
- Responder: decide to accept proposer's offer
- If responder accepts the offer, players receive money
- If responder do not accept the offer, neither player receives any money.

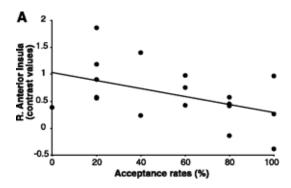


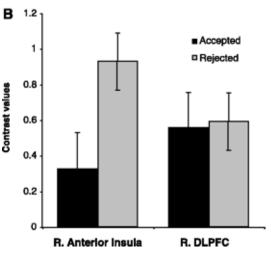
results



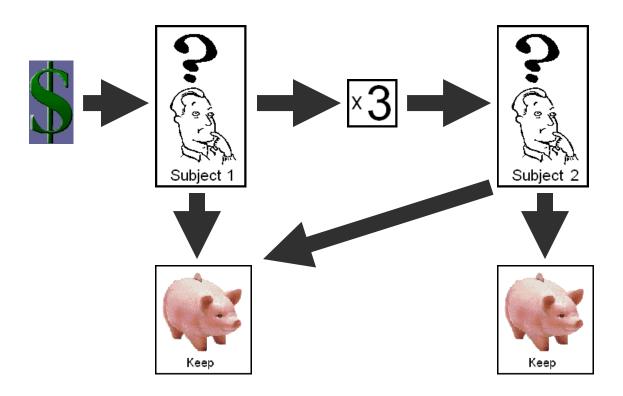
3. Emotion & Morally Charged Economic Behaviors

- Violations of rationality in behavioral game theory
- Ultimatum game rejections and anterior insula
- Unfair offers result in spiteful behavior – a "social instinct" punishment without looking
- Converse is 'cooperation without looking'- people prefer social partners who are not 'strategic' in calculating the costs before cooperation – detectable by reaction times.
- Emotions may drive this





Investor / Trustee Task



10 Prosocial Behavior Points to Intuitions

Table 1 | Median and average transfer behaviour of investors

	Trust experiment		Risk experiment	
	Oxytocin group	Placebo group	Oxytocin group	Placebo group
Mean average transfer (MU)	9.6	8.1	7.5	7.5
Median average transfer (MU)	10	8	8	8
Standard deviation of transfers (MU)	2.8	3.1	3.3	3.4
Number of observations	29	29	31	30

Emotional deficits

• Impaired moral judgment?

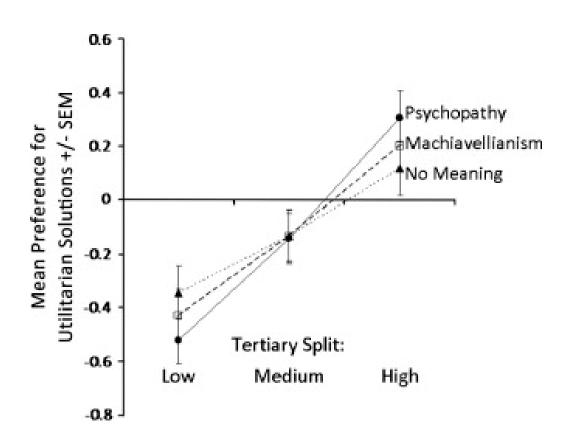
Mismeasure of morals study

- Psychopathy: a personality style characterized by low empathy, callous affect, and thrill-seeking
- Machiavellianism: degree to which people are cynical, emotionally detached from others, and manipulative
 - Both share emotional coldness, aggression, and willingness to engage in or rationalize deceit
- No Meaning Scale measures people's melancholic existential concerns—how meaningful they perceive life to be. If life is perceived to be meaningless, we reasoned, then the question of whether to kill one to save five may well reduce to a simple "math problem"—a dispassionate comparison of utilities.

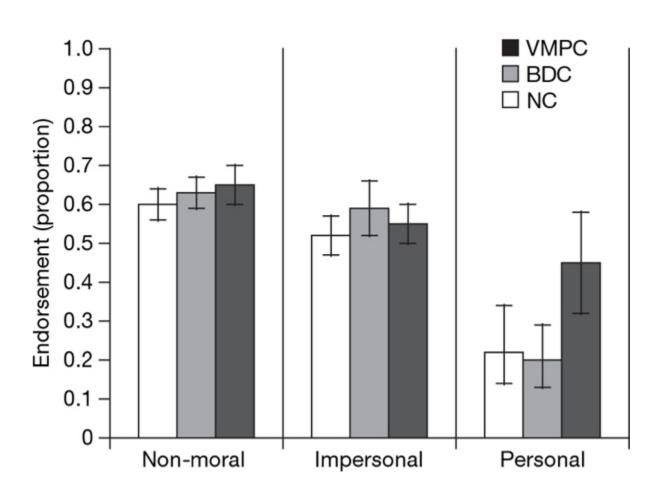
• You are the captain of a small military submarine traveling underneath a large iceberg. An onboard explosion has dramatically decreased the oxygen supply and has injured a member of the crew. He may die from his injuries. The remaining oxygen is not sufficient for the entire sixman crew to make it to the surface. If you shoot the injured crewmember, there will be just enough oxygen for everyone else to survive In this situation, would you shoot the crewmember?

• You and five others are exploring a seashore cave. A rock falls and blocks your exit. The tide is rising. You spot a hole elsewhere and let a large man in your group out first. He gets stuck, and unless you get out soon, everyone but this man (whose head is sticking out of the cave) will drown. You have a stick of dynamite that will not move the rock, but will blast the man out of the hole. He does not want to die; neither do you or the others In this situation, would you blast him out?

Utilitarian preferences



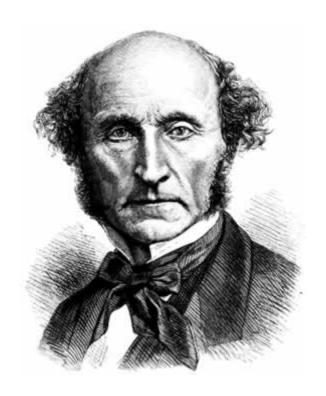
VMPC and Utilitarian judgment



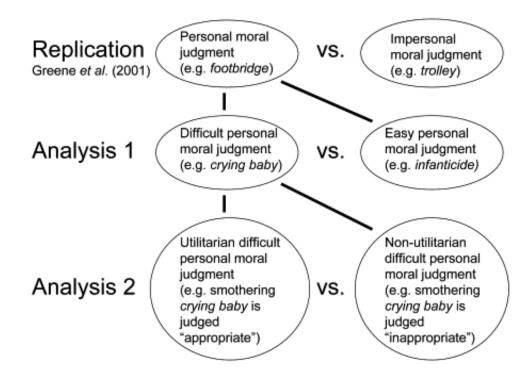
Intuition & ethics

- are intuitions a source of moral knowledge?
- What is the relation between intuition and implicit learning

John stuart mill



Greene

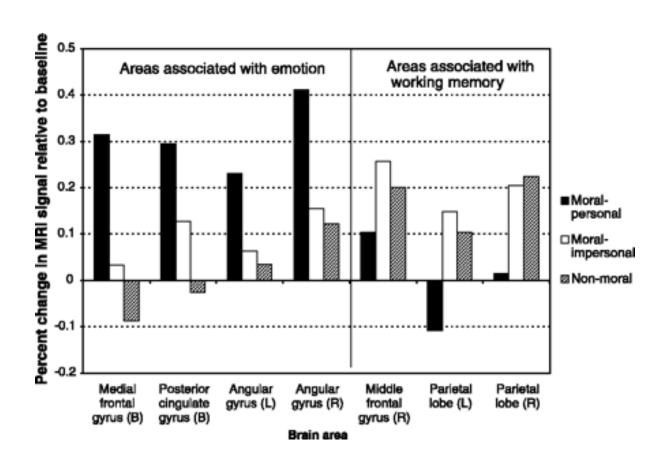


Moral Philosophy

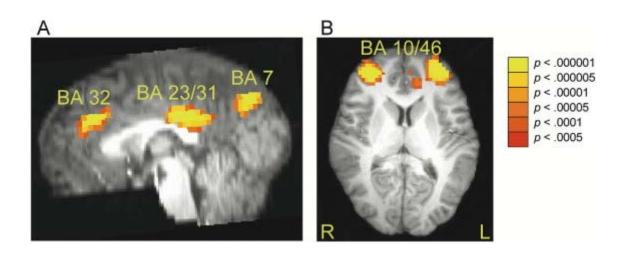
- Scenarios that probe moral intuition.
 - Much used in moral philosophy
 - One of the most famous is the "trolley" dilemma
- A runaway trolley is about to kill 5 people
 - a) Push lever to change track -- kill 1 to save 5.
 - b) Push man down foot bridge -- kill 1 to save 5.
- Deontological (emotion) /utilitarian (reason)



Footbridge/Switch



Difficult vs Easy personal dilemma



Utilitarian vs non-utilitarian

