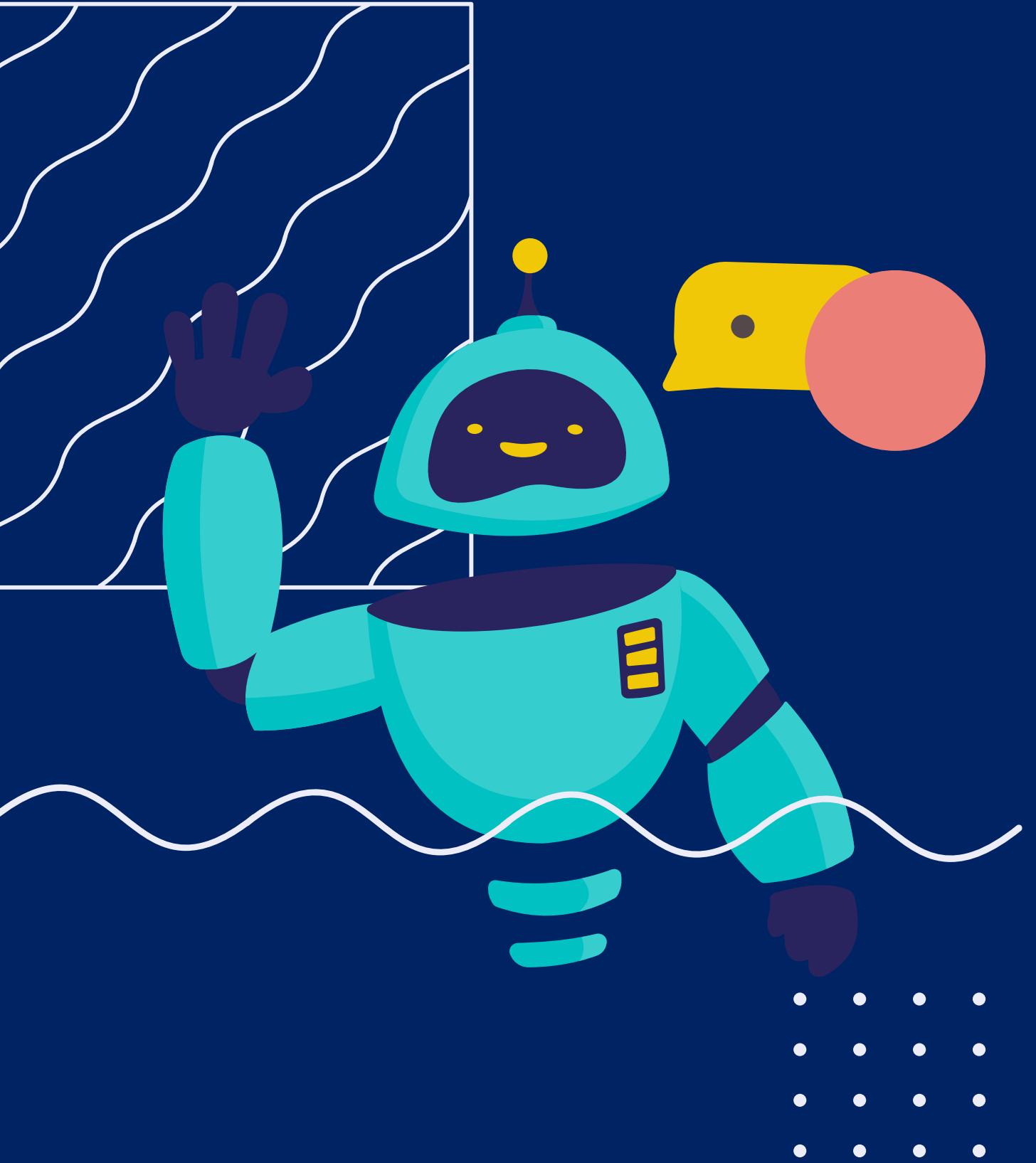


Almost "Alive": Robots, Consciousness, Problem Of Other Minds

Performing Robots
Yoki Xue



Interviewer: Could a robot be conscious?

David Chalmers: It's unlikely in my opinion, although I'm a little uncertain on this issue. Robot's consciousness would require that it have mental states with the right kinds of contents.

Interviewer: But if a robot did have states with the right kind of mental content, it would be conscious in your opinion?

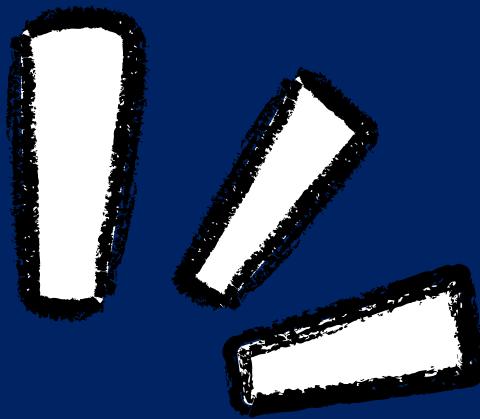
Dave: Yes. It's not the content of the states that is important, but rather the fact that it has any mental content at all. And we can see this by the fact that your cat is probably conscious.

Interviewer: Well, I don't have a cat, but I take the point. So what do you think would be required for an artificial system to have mental content in the first place?

Dave: Now that's a much harder question. I think it requires some sort of inner presentation.

Interviewer: I see. When you say inner presentation, are you talking about some kind of acquaintance relation?

Dave: Well I think it would have to be something like acquaintance, but I don't think we really know enough about consciousness to say exactly what's going on. I think one thing we can say is that if an organism has a central nervous system with a brain, then there's some chance it might be conscious.



Now the reveal

“Dave” is actually a ChatBot, responding to a human interviewer

A feeling of being deceived by a robot would be a strong indicator that the human treat the robot as an intentional entity (K. Terada and A. Ito).







RISE





The Most Realistic Humanoid Robots in The World



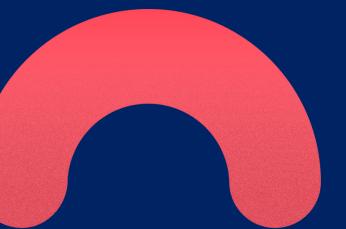
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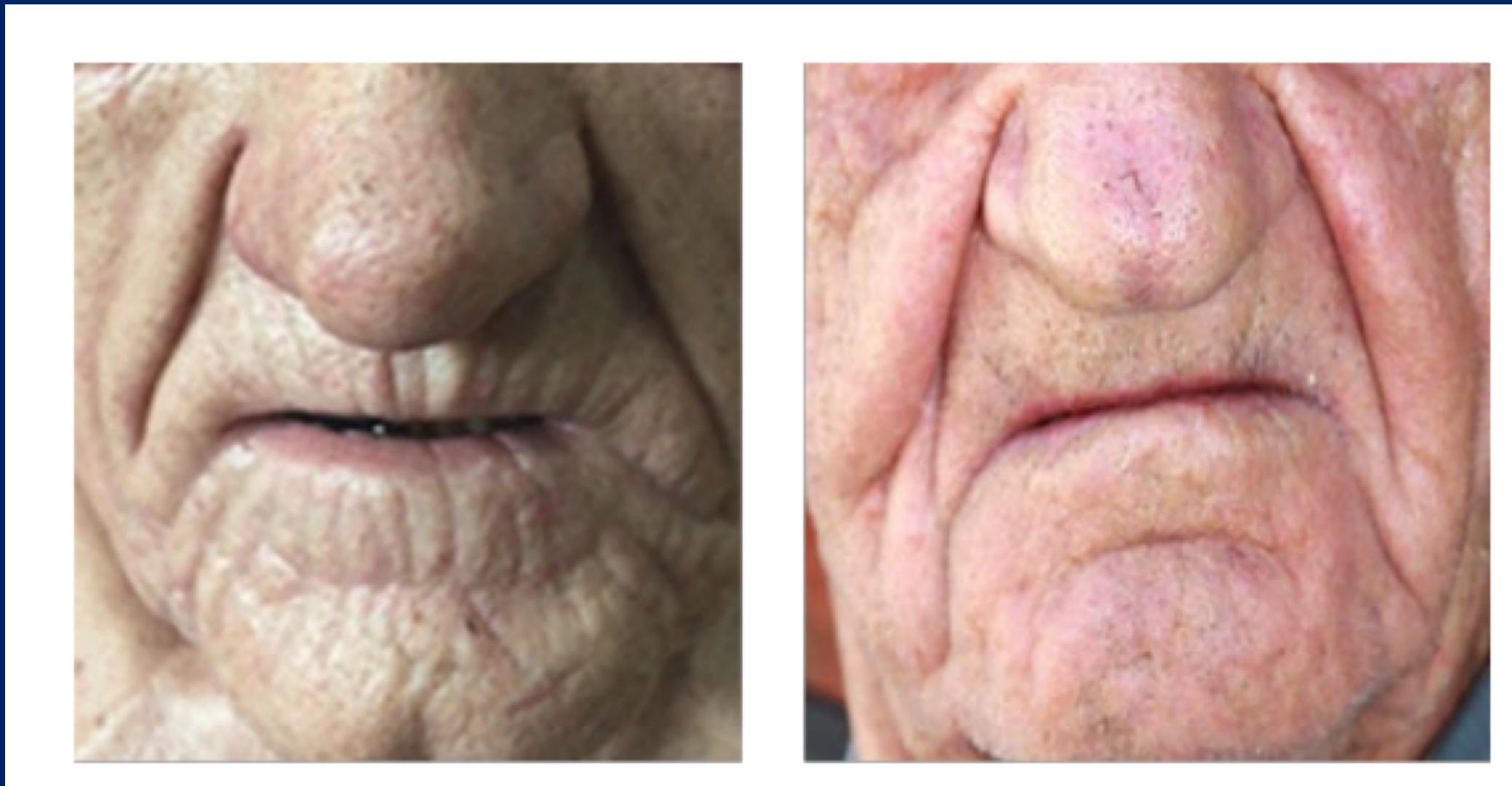
Turing Test for realistic humanoid robots?

- Launched by Alan Turing in 1950
- Hypothetical test to determine if a machine is intelligent or not



The Multimodal Turing Test

provides such a methodology and offers a foundation for creating higher levels of human likeness (Strathearn and Ma 5)



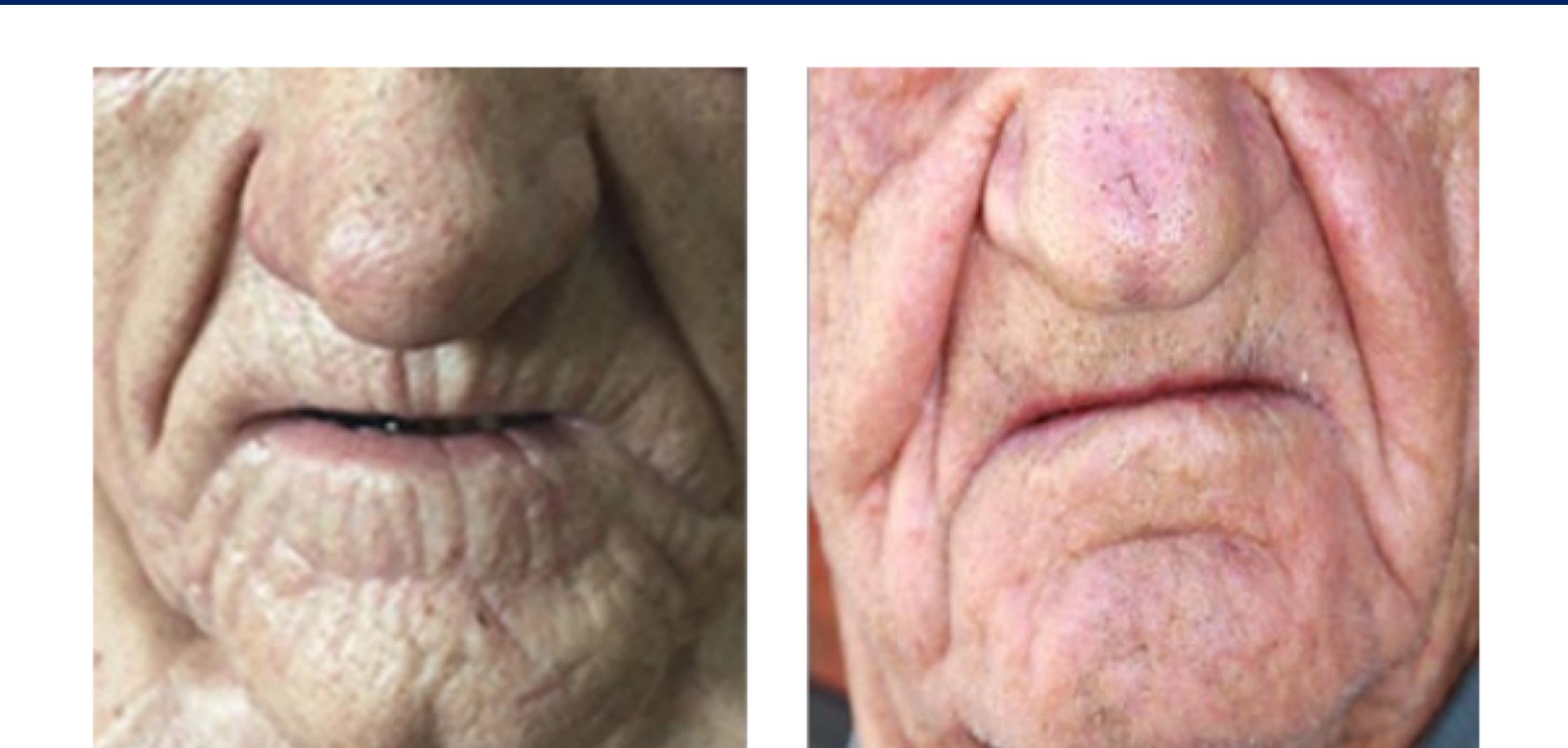


Fig. 5: *Mouth comparison* Left: RHR. Right: Human



Problem of Other Minds

Given that I can only observe the behavior of others, how can I know that others have minds?

How can we tell whether any body other than our own has a mind when the only way to know is by being the other body?



Discussion

- Can a robot be designed to pretend to be alive or it must be in an honest way that clearly shows it is a machine?
 - Life-like robot has advantages in communicating with humans. Is it because we believe it to be alive or we react instinctively to life-like behavior as it allows us to better predict its actions?
 - Do you agree that robots appear more persuasive when pretending to be human?
 - If having consciousness is not a prerequisite of being able to "deceive" people, is the imitation of human intelligence an overhyped goal?
- 