

The Mind/Body Problem

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- In this slideshow we examine the major ways of addressing this problem that have been arisen since the scientific revolution first challenged the ancient belief in the existence of the soul.

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- In this slideshow we examine the major ways of addressing this problem that have been arisen since the scientific revolution first challenged the ancient belief in the existence of the soul.
- We'll do this by looking at major theoretical approaches and what might be said both in favor of and against them.

The Mind/Body Problem



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- **Behaviorism:** minds are nothing but certain patterns of behavior which we refer to as intelligent.
- **Mind/Brain Identity Theory:** minds are collections of states of the physical brain.
- **Functionalism:** minds are the software or sets of functions, carried out by the components of physical brains.

The Case for Dualism

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"Minds and bodies are so different that they must be different kinds of things entirely."



Descartes
1596-1650

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- Mental and physical things seem to share no features in common, so he argues that they must belong to entirely different "worlds."
- Physical things are publicly observable, take up space and interact according to the laws of physics, while none of this is true of "mental things" like thoughts, dreams or feelings.

Objections to Dualism

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"If minds and bodies are so different how can they interact?"



Elizabeth of
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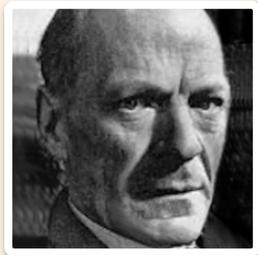


Elizabeth of
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- Princess Elizabeth of Bohemia exchanged many letters with Descartes in which she stressed what has come to be known as "the interaction problem."
- Clearly my mind interacts with my body, yet dualism seems to rule this out as even a possibility.

Objections to Dualism

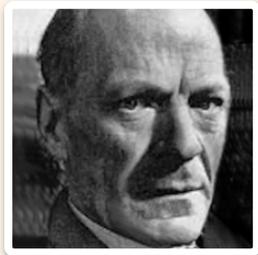
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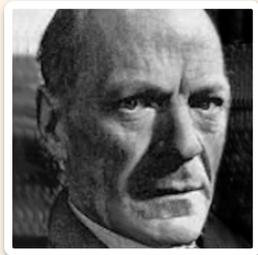


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- Gilbert Ryle offers a diagnosis of where Descartes went wrong. Descartes, in Ryle's view wrongly views the mind as a "thing" and not as a "higher-order" description of what those creatures *with* minds do.

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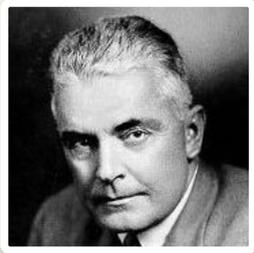
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- Just like we'd be wrong to seek "the desert" alongside of all the cactus, lizards and sand in Nevada, we are mistaken to look for a "mind" alongside our bodily parts.

The Case for Behaviorism

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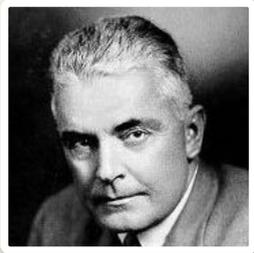
"Psychology is a branch of objective, natural science, which aims at prediction and control."



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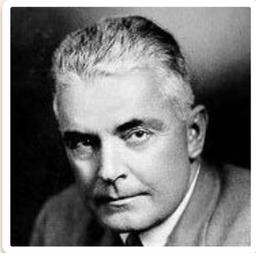


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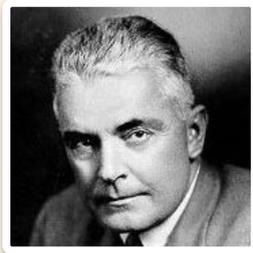


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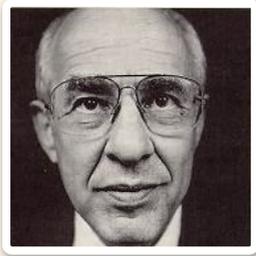
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- This led to the philosophical view that minds just *were* certain kinds of behavior.

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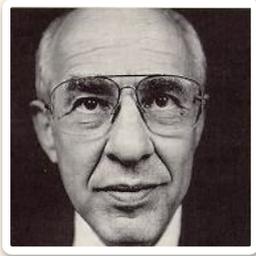
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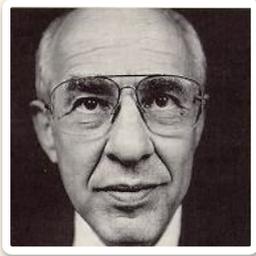


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- If you can *act* like you are happy but not really be happy, or *pretend* not to feel pain when you have just cut yourself, your state of mind cannot be the same as your behavior.

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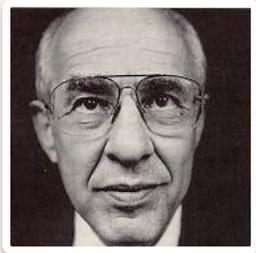


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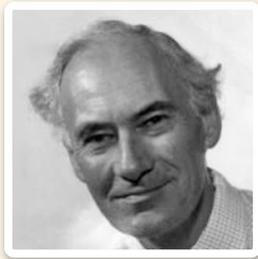
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- Can we predict and control human behavior like we can predict and control things in the physical world? The American philosopher Hilary Putnam had his doubts.

The Case for Mind/Brain Identity Theory

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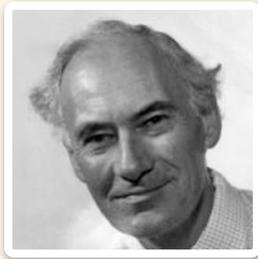
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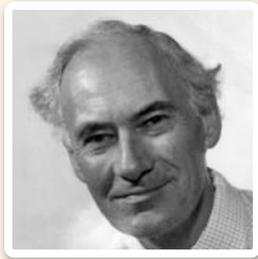


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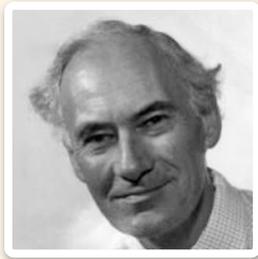


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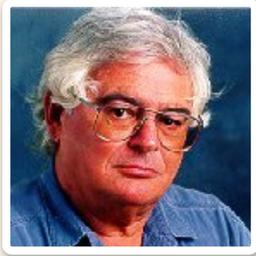
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- Recent advances in brain imaging technology would seem to finally give us a way of peering into other people's minds in real time.

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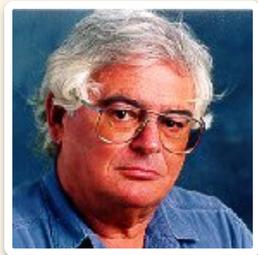
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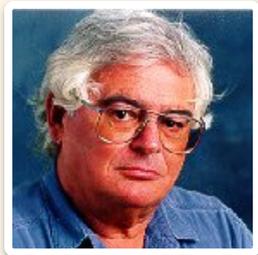


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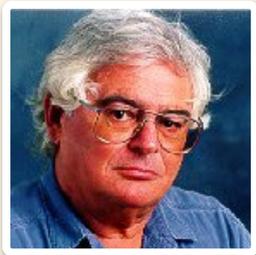


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- After all our brains are all very different in their details and yet we can all think similar thoughts.
- Thus while brain imaging technology can show exactly what my brain is doing, that doesn't mean it can be used to read my mind.

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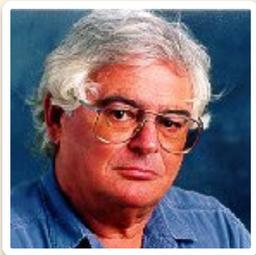
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- So, for example, a visually impaired scientist with no color vision might know all of the facts about human color vision, but there would be something else she would learn about it should her color vision be restored.

The Case for Functionalism

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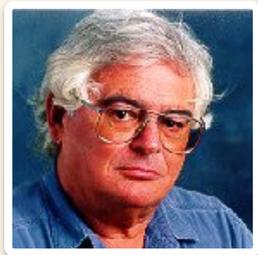
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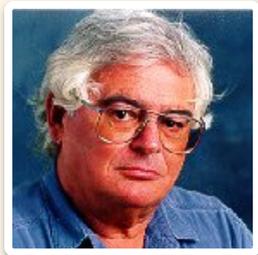


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- This view of the nature of the mind as a set of "information processing functions" carried out by the physical machinery of the brain and nervous system is widely shared by cognitive scientists.

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- Thus, minds must be something more than sets of functions carried out by brains.

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- We can imagine a "philosophical zombie" processing all of the information we process while being empty of any conscious experience.
- Such a mythical creature shows that minds are more than information processing.

The Case for Artificial Intelligence

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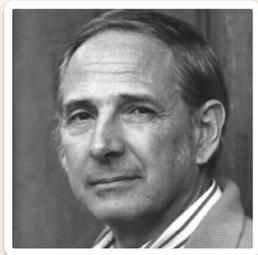
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- Contemporary research into Artificial Intelligence is seeking ways to capture the complexity of human thinking in equally complex computer programs.

Against Artificial Intelligence

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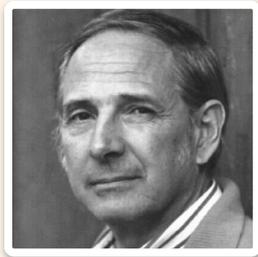
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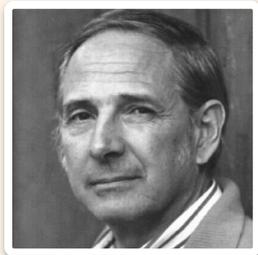


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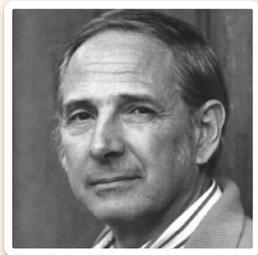


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- He argues that since all computers can ever do is manipulate symbols according to rules with no understanding of the meaning of those symbols, they will always fail to grasp meaning as human beings can.
- Thus while we may produce convincing "fake" intelligence, the prospect of computers actually having minds that grasp meanings is forever beyond our reach.

Open Questions

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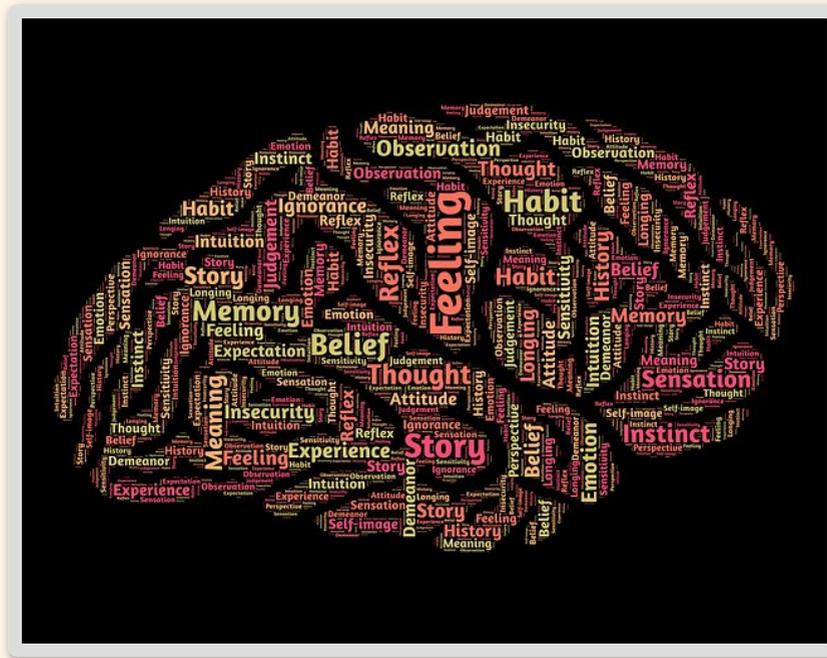
Can we build a machine that can really count as truly intelligent?

Find out more

Where does your mind reside? This Crash Course video briefly explains the Mind/Body problem.

Artificial Intelligence and Personhood: another great Crash Course video on philosophical problems related to the concept of Artificial Intelligence.

Artificial Intelligence: this School of Life video describes three different concepts of Artificial Intelligence and the prospects for building a mind in the real world.



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