Descartes: Interactive Dualism

The Creation of Mechanistic Science

Copernicus—Kepler: the mechanization of the heavens

Galileo: the mechanization of terrestrial physics

Rejection of Aristotlean substantial forms and formal causation

Behavior of terrestrial object explained in terms of matter in motion

Descartes: The Supreme 17th Century Mechanist

Physical objects for Descartes were defined by extension

The entire universe comprised of time corpuscles

Maintained that a vacuum was impossible

Motion involved corpuscles moving in to replace those that moved, creating vortices



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Descartes' Account of the Magnet

All properties of matter to be explained in terms shape, size, and motion of the corpuscles that comprised them

Thus, magnetism was explained in terms of screw shaped particles which would be drawn into appropriate receptors



Goal: Epistemic Foundations for the New Mechanistic Science

- > A major challenge for the new mechanistics was the prevelence of Artistotelian science
 - Galileo, Descartes, and others were trying to replace the established view which they took to be false
 - · That is, what they learned in school was FALSE
- If what passed as knowledge in the past was wrong, how could one do better?
 - · Clear the decks by calling into question all that could be doubted
 - Starting fresh by building from new foundations— build up from indubitable foundations using only valid aruments

Not just the physical world, but the living world

Descartes was extremely interested in the behavior that was realized by waterstatues in the Royal Gardens

Suggested that behavior of animal bodies could be explained in the same manner



Reflexes

Descartes proposed that much animal (including human was reflex action

He proposed nerves comprised circuits much like those Harvey had discovered for circulating blood but which circulated very fine animal spirits

Reflex action resulted from the flow of the animal spirits through the nerves



Descartes's Conception of Mind

The only exception to the mechanical philosophy was the human mind—it was not an extended thing but a *thinking thing* (res cogito, not res extensa)

"But what then am I? A thing which thinks. What is a thing which thinks? It is a thing which doubts, understands, [conceives], affirms, denies, wills, refuses, which also imagines and feels."

Is *mind* equivalent to *soul*? Pay attention to what the mind doesn't do for Descartes

Why a non-physical mind?

Can reflexes explain all behavior?

For Descartes, they could explain everything a non-human animal could do

So anything we do that a non-human animal can do does not require our mind

This includes remembering and having emotions—these depend totally on the brain

How does our behavior differ from other animals?

Our actions seem (to us) to be free, not caused

But couldn't this be an illusion?

Focus solely on behavior

What kind of behavior do we engage in that other animals do not?

Descartes on Language

How does human language differ from the communication systems of other animals?

Language is a productive system

We can always create new sentences

For Descartes, this seemed to be something machines just couldn't do

A machine could be designed to utter any given sentence, but could not create novel ones

First argument for separation of mind and body

(Part IV of Discourse on Method)

- 1. I cannot possibly doubt that I exist as a thinking thing.
- 2. I can, doubt, however, that I have a body, and thus that I exist as a physical thing.

Therefore, thinking is essential to what I am. My body is not

What premise is assumed in this argument? Is it plausible?

Knowledge of One's Self

I know my mind more easily than I know my body:

"From this I knew that I was a substance the whole essence or nature of which is to think, and that for its existence there is no need of any place, nor does it depend on any material thing; so that this 'me,' that is to say, the soul by which I am what I am, is entirely distinct from body, and is even more easy to know than is the latter; and even if body were not, the soul would not cease to be what it is"

Argument Not Valid!

Need additional principle. Try:

Alpha: when an entity is known for certain to have property x, but not known for certain to have property y, then x is essential to the entity, and y is not.

Beta: when an agent knows for certain that it has property x, but does not know for certain that it has property y, then x is essential to the agent, and y is not.

Second argument for separation of mind and body (Sixth *Meditation*)

- 1. If I conceive of two things and perceive with certainty that they are separate, different kinds of things, then they are separate, different kinds of things. If, for example, I see that one thing has property A and another has property not A, then I know that they are different kinds of things, because one and the same thing cannot have a property and its opposite.
- 2. I perceive with certainty that I exist as a *thinking and unextended* thing.
- 3. I perceive with (virtual) certainty that my body, or any body for that matter, is *unthinking and extended*.

Therefore, mind and body are separate, different kinds of things. "This I (that is to say, my soul by which I am what I am), is entirely and absolutely distinct from by body, and can exist without it."

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Third argument for separation of mind and body (Sixth *Meditation*)

- 1. An entity cannot have a property and its opposite.
- 2. My body is divisible, it has parts. Divisibility is part of what it means to be a body.
- 3. My mind is indivisible. It has no parts. "For . . . when I consider the mind, that is to say, myself inasmuch as I am only a thinking thing. I cannot distinguish in myself any parts, but apprehend myself to be clearly one and entire; and although the whole mind seems to be united to the whole body, yet if a foot or an arm, or some other part, is separated from my body, I am aware that nothing has been taken away from my mind.

Therefore, my mind and my body are different kinds of things.

General thrust: personhood not identical to bodily identity

- There is something true of humans that cannot be true of any physical thing
 - · Challenges:
 - Identify that thing
 - Show that no physical (extended thing) could have if

Once the mind is separate, what then?

How does it work?

How does it control the body?

 How does something non-physical produce a change in the physical world

The difficulty of accounting for this is one factor pushing many thinkers to reject dualism



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