

Mind and Cognition

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Notes on mind and cognition.

Currently reading through [BJ96].

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§1 Against Dualism

Notes from this section are roughly based on the chapter "The Flight from Dualism" in [BJ96].

§1.1 Introduction

There seems to be a clear distinction between things that are material and mental.

In the material world we have things like

- A person's weight
- A person's hair color
- A person's genetic makeup

whereas in the mental world we have things like

- How a person is feeling
- What a person is thinking
- A person's intellect

There are two ways to explain these differences. The first is **dualism**, which posits that the material and mental worlds are fundamentally separated.

On the other hand, we have **materialism** and **idealism**, which are both a form of monism.

Materialism argues that everything can be simplified to the material: that our mental states can be explained from examining our material state. Idealism is the opposite: it says that the material is explained purely in terms of the mental.

Nowadays, materialism is orthodoxy and both dualism and idealism are discredited. Idealism mainly because it gets compared to **vitalism** – the idea that the living and inanimate are fundamentally different. That is, perhaps the living possesses some kind of vital force that the inanimate does not. This is often discredited nowadays ever since the rise of modern chemistry.

§1.2 For Dualism

Some sketches of arguments for dualism and some sketches of arguments against it.

Definition 1.1 (Leibniz's Law)

Also known as **the indiscernibility of identicals**, it states that if

$$x = y$$

then all properties of x are a property of y , and vice versa.

With Leibniz's law, it is quite easy to see a sketch of an argument for dualism: simply observe that there seem to be qualities that physical states have that our mental states do not. For example, physical states have *mass*. Do the state of pain have mass? If not, then clearly the mental and physical (material) cannot be equal, and so the argument for dualism goes.

The empirical response is that things that "seem true" are not necessarily true.

Remark 1.2. Here in the textbook, it seems the authors make the claim that light has mass. It must be noted that when claims like this are made, it is about "relativistic mass."

The argument above was applied to mental and physical *states*. It can also be applied to *beliefs*. Take, for example, the belief that snow is white. It lacks location and temperature which all physical states have.

When talking about beliefs, it is important to make the distinction between the *state* of belief, and what is believed itself (i.e. the *contents* of the belief). If we talk about the state of the belief, the conversation reduces to a conversation about mental and physical states. If it is about the content of the belief, this is much more complicated and materialists have some things to say about this (to be covered later).

§1.2.1 Descartes 1

One of the classic arguments of Descartes goes as follows: he considers what he cannot doubt. After continuous contemplation, he arrives that the only thing we cannot doubt is our existence itself. Everything else, such as our sight, feeling, body, *can* be doubted: simply imagine a devil on your shoulder feeding into your senses whatever information pleases him. Now, it follows by Leibniz's law that the mind and material are distinct, for one cannot doubt that the mind exists.

Observe that this argument hinges above *doubt*, and the materialists will attack this aspect of Descartes' argument. This is because doubt is a subtle thing to how it's presented.

Example 1.3

A man says that he is the tallest spy. You doubt that, but what are you really doubting?

There are two things that *are valid* to doubt: that he is a spy, or that given he is a spy, he is the tallest one.

But, you cannot doubt that the "tallest spy" is in fact a spy.

This subtle presentation is called **the opacity of the propositional attitudes**.

Let's call that man Doug and refer to the act of doubting as a property. Consider two properties:

- The property of doubting that the "tallest spy" is a spy
- The property of doubting that "Doug" is a spy

The second is valid, the first is not.

Materialists argue against Descartes by saying that his argument only shows that we cannot doubt our existence *when we describe ourselves as "thinking being"*. This is analagous to how we cannot doubt that the "tallest spy" is indeed a spy. We can, however, doubt our existence when we describe ourselves as a "physical body".

Likewise, "doubts" are irrefutably true when described as *doubts*. But, "doubts" can be doubted when described as "brain states".

The main point is that the **description** of a subject greatly affects whether or not it can be doubted. Descartes says we cannot doubt our existence, but there is an implicit description of ourselves as thinking beings, in which of course we exist. But, if we describe ourselves as physical beings, we can indeed doubt if we exist.

Taking a step back, the main point of Descartes is that there exists a property that is only true for the mind: that is, you cannot doubt that you do not exist. But, depending on what you substitute for "you", you *can* doubt that you exist.

Remark 1.4. This materialist refutation I am still not 100% clear on.

Not surprisingly, the textbook authors mention Quine as a source (it does seem related to problems of language, sense, and reference). Particularly, the reading 'Quantifiers and Propositional Attitudes'. It also seems worth reading up on de re/de dicto arguments against dualism.

§1.2.2 Descartes: Machine Argument

A final argument against materialism is given by Descartes when he analyzes how machines think. In essence, dualism is true because we, humans, are flexible and rational in our thinking. Machines, on the otherhand, are not. They simply respond to stimulus either deterministically or non-deterministically. Either way, they do not *deliberate*.

The materialist would respond by saying that this is looking past the point: the point isn't whether or not we are machines. In fact, it could be allowed that we *are* machines, but dualism still holds. The real point is whether or not we, rational human beings, are composed of the same matter as

the most advanced machines. Again, whether or not there is a separation between mind and matter regardless if that is in an organic organism or a machine.

§1.2.3 Godel's Theorem

Another argument for Dualism tries to apply Godel's theorem.

References

- [BJ96] David Braddon-Mitchell and Frank Jackson. *Philosophy of Mind and Cognition: An Introduction*. Wiley-Blackwell, Malden, MA, 1996.