

# The knowledge argument and the colour of ripe tomatoes<sup>1</sup>

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## ABSTRACT

A discussion of the knowledge argument based on papers by Jackson (1986) and Pereboom (1994). It seems that the former treatment of the problem survives attacks from the later.

Physicalism is a moving target: The physics which is the result of the reduction varies with what physical theory is popular at each moment in time among philosophers; from billiard balls, to physico-chemical processes and the general theory of relativity and finally quantum physics. The reductionism looks the same, though. It is as eternal as the eternal questions.

May 22, 2024

## Introduction

Biology is, writes Smart (1959: 142) “to physics as radio-engineering is to electromagnetism) except the occurrence of sensations seems to me to be frankly unbelievable.” The effect such a statement have on biologists and biologically inclined philosophers could be easily foreseen. I think it is safe to assume that Smart was wilfully provocative. Smart’s (op cit.) and others’ works led to a “wave of reductionist euphoria” or that is how Nagel (1974: 435) puts it in his seminal paper *What is it like to be a bat*. Nagel discusses at length that chiropterology (the scientific study of bats) has to study *how it is like* how to see the world using echolocation.

Nagel was later joined by Jackson who wrote a series of papers, including *What Mary Didn’t know* (Jackson 1986). The argument furthered by the two is usually referred to as *the knowledge argument* Ravenscroft (2005: 171). Formalizing Jackson (1986: 291) a bit further, the argument could look roughly as follows:

- (A) Physicalism is the idea that the world is not only largely physical but **completely** physical. On this point Jackson (1986: 291, see his footnote 1) argues that if physicalism is true, and if you know everything expressible in a physical language, then you know **absolutely** everything.

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<sup>1</sup> Written as a deliverable for the course FTEA13:5 – Philosophy of Mind, which is a part of the introduction into theoretical philosophy at Lund university  
<https://www.fil.lu.se/kurs/FTEA13/>

- (B) Suppose that our world  $W$  is **not completely** physical. Then there is a possible world  $W'$  which is.
- (C) Since the world  $W'$  is completely physical, the difference between that world and our  $W$  must be facts that cannot be expressed in a physical language (Jackson 1986: 291).

Now, please recall that what Smart (op cit.) regarded as unbelievable were sensations and that those are what Nagel (op cit.) regarded as essential (for understanding bats: echolocation). Jackson's and Nagel's works provoked a response by Pereboom (1994). Here I study the papers papers by Jackson and Pereboom. I first present Jackson's view and then I turn to Pereboom and compare it with Jackson's. Finally I add my own conclusions and make a brief comparison with Ravenscroft (2005: 172)

### What Mary Didn't Know

Mary's black-and-white room is a thought experiment proposed by Jackson. He has discussed it in a number of essays. I will concentrate on Jackson (1986), even though it is not his first treatment of the problem. His brief note was written as a reply to Churchland (1985), who in his turn had attacked those earlier papers. I will not further discuss Churchland.

Mary is an extremely gifted neuroscientist. Since birth she has been confined to a room furnished completely in black-and-white. She has spent her whole life there, studying physiology, cognition, physics, colour, optics etc, using black-and-white books, journals and TV set. If physicalism is true she knows absolutely everything there is to know that can be formulated in a physical language. Which is everything, simpliciter. If there is more to know, then physicalism is false. Or so claims Jackson (1986).

Eventually she is released from her confinement, and the questions are: What did she learn when she meets the real world? In particular, what did she say when she first saw a ripe red tomato?

Following Jackson (1986), this how Mary's black-and-white room narrative can be boiled down to an argument:

- (1) From (A): "Mary (before her release) knows everything physical there is to know about other people." (Jackson 1986: 293).
- (2) From (B): "Mary (before her release) does not know everything there is to know about other people (because she learns something about them on her release)." (Jackson 1986: 293).

Hence

- (3) From (C): "There are truths about other people (and herself) which escape the physicalist story." (Jackson 1986: 293).

So what did Mary learn? Jackson 1986. claims that she learned something about other people. What she "*did not know until her release is not a physical fact about about their experiences. But it was a fact about them. That is the trouble for physicalism.*" Jackson does not tell us what she said. Only what she did not say: "*ho, hum.*"

### Pereboom's analysis

Pereboom (1994) discusses both Nagel (1974) and Jackson (1986) treatments of the knowledge argument. More specifically, Pereboom (op cit.) starts with Churchland (1985).

Pereboom (1994: 316) is convinced that this “strategy can be enhanced to resolve the controversy in favor of the materialist.”

Before attacking the argument, he presents how Mary’s Room could be formalized. Quoting verbatim from Pereboom (1994: 318):

- (i) Mary (while in the room) knows everything physical there is to know about human beings.
- (ii) Mary (while in the room) does not know everything there is to know about the nature of human sensations and their properties.

Therefore

- (C) There is information about human sensations that is not physical, and thus human sensations are not completely physical.

The differences between Jackson’s and Pereboom’s first premises could hardly be larger. Jackson is focussing on that Mary knows everything that can be formulated in a **physical language** about **other human beings**, see (1).

Pereboom is much more vague, see his premise (i). For him, Mary just knows everything physical about humans in general.

The difference between the consequents are different as well. Jackson’s Mary realizes, upon her release, that there were important things she did not know about other people’s perceptions. See (3). Pereboom’s consequent (C) just concludes that there is information about human sensations that are not completely physical.

Clearly, Jackson’s views have evolved over time. It seems that Jackson (1986), successfully refutes Churchland (1985), or he that is what he claimed. Jackson is then using a new release of the knowledge argument. Pereboom’s (1994) objective was to give support to Churchland, but however I read Pereboom I cannot see that he succeeds. Basically, because he tries to defeat the knowledge argument using minor variation of the already refuted argument.

One of his core arguments is that Jackson assumes that “*that if materialism is true, then complete physical knowledge will provide cognitive access to everything about a subject’s mental states as they are apprehended in introspection*” (Pereboom 1994: 316), an assumption he claims to be false. False or true, this argument seems to be irrelevant; when Mary is released she realizes something about others, not about herself (3), a realization which is impossible to formulate in a physical language.

Another core argument is that Mary through, her complete knowledge of everything physical related to human beings, as Pereboom (1994: 320) puts it (cf. (i) above), would be able to gain important knowledge about others perception through intersubjective accessibility. Since the Mary’s room narrative is about what happens after she has left the confinement, I cannot see that this is relevant either.

## Conclusions

Ravenscroft (2005: 172) reached a similar conclusion. He points out that Jackson’s (op cit.) description of Mary’s lack of knowledge as a lack of understanding of what others knew about visual cues of red tomatoes, Jackson evaded the objections to his argument described above.

He evaded not only Churchland (1985), but also Pereboom (1994). Basically, Pereboom refer to Jackson (1986) but does not really respond to it.

## References

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