

What Does Knowledge Explain?

Commentary on Jennifer Nagel, 'Knowledge as a Mental State'

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Abstract

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1. Introduction

In defending the claim that knowledge is a mental state, Nagel argues that knowledge features in explanations of thought and action. This in turn leads her, right at the core of her paper, to argue that 'the concept of knowledge is in some sense prior to the concept of belief' (p. 21).¹ I shall concentrate on the core argument and set aside issues about how it bears on the status of knowledge as a mental state.² In what sense, if any, is the concept of knowledge prior to the concept of belief?

In part Nagel is concerned with temporal priority in development. As she notes, earlier research shows that children can reliably answer questions about knowledge and ignorance months or years before they can answer questions involving false belief (Hogrefe, Wimmer & Perner 1986). So a three-year-old might be able reliably to report whether someone knows something and, relatedly, which of two or more people know it while systematically failing to correctly answer questions about what someone with a false belief will think, do or say (Wellman, Cross & Watson 2001). Further, children's sensitivity to knowledge and ignorance appropriately guides a range of their actions, such as whether to rely on what someone says (Robinson, Champion & Mitchell 1999; Robinson & Whitcombe 2003) and whether to point to the location

¹ See also p. 14 where Nagel considers the view that 'the capacity to recognize belief depends on some prior mastery of the concept of knowledge'

² As far as I can see, Nagel does not address the views of those who, like Fricker (2009), concede that knowledge features in explanations of thought and action but deny that knowledge is a mental state. According to Fricker (2009, p. 51), 'There is absolutely no tension between knowing's being a good explanatory state, and each instance of knowing being a conjunctive, hybrid phenomenon.' An opponent of Nagel might also think that ascriptions of knowledge are explanatory while denying (as Hyman *ref does) that knowledge is a state.

of an object (Dunham, Dunham & O’Keefe 2000; Liszkowski, Carpenter & Tomasello 2008). What Nagel doesn’t mention, however, is that this picture is greatly complicated by more recent research on infants’ sensitivity to false belief.³ It is not just that from some time around their first birthday or earlier infants look longer when an agent who apparently has a false belief acts as if she knew, arguably suggesting that such actions violates their expectations (Onishi & Baillargeon 2005; Surian, Caldi & Sperber 2007). It is also that, at roughly this age, infants’ eye movements anticipate actions based on false beliefs (Southgate, Senju & Csibra 2007). And it is also that facts about others’ false beliefs shape some communicative actions (Knudsen & Liszkowski 2011) and to some extent guide word-learning (Carpenter, Call & Tomasello 2002) as well as modulating how subjects help others (Buttelmann, Carpenter & Tomasello 2009). Of course none of this establishes (at least not in any straightforward way) that typically developing humans do not acquire a concept of knowledge before they acquire a concept of belief. After all, we know relatively little about mindreading in the first months of life;⁴ and (to take a different line), it seems to be an open question which, if any, of these findings are best explained by concept possession. But taking a slightly wider view of developmental research does show, contra Nagel, that the available evidence does not straightforwardly support the claim that knowledge comes before belief.

the representations of beliefs and other mental states discovered by this research (assuming for now that they have indeed been discovered) have consequences for thought or action: these representations certainly influence eye movements (Clements & Perner 1994) and (Kovács et al. 2010); they may also ;

The answer may depend on what is involved in having a capacity to recognize belief and a prior mastery of the concept of knowledge.⁵ So before addressing this question directly it will be helpful to have some distinctions in place. The first distinction is between theory of mind abilities and theory of mind cognition. A theory of mind *ability* is an ability that exists in part because exercising it brings benefits obtaining which depends on exploiting or influencing facts about others’ perception, knowledge, belief, desire or any other psychological states. Theory of mind *cognition* involves representing psychological states. This distinction matters because not all theory of mind abilities involve theory of mind cognition. To illustrate, some animals are able to modify their behaviour in the presence of eyes directed at them (e.g. Ernest-Jones, Nettle &

³ While this research has recently attracted renewed interest, some of the credit should also go to earlier work. See Clements & Perner (1994); Garnham & Perner (2001); Garnham & Ruffman (2001); Ruffman, Garnham, Import & Connolly (2001)

⁴ Notably, though, Kovács, Téglás & Endress (2010) show that information about others’ false beliefs can generate non-rational interference on adults’ non-psychological judgements concerning the location of an object and has related effects on seven-month-old infants’ looking times.

⁵ Nagel also puts what I take to be the same thesis by saying that ‘an ability to track what others would know seems to be the precondition, rather than the product, of an ability to track what they would believe’ (p. 3). It may be important to distinguish mastery of a concept of knowledge from abilities to track what others know.

Bateson 2011). It is plausible that this ability exists in part because it enables individuals to influence what others perceive. But it doesn't follow, of course, that exercising this ability involves representing others' perceptions; for all we have said, the ability might depend on representing eyes and not perceptions.

I shall interpret talk about *tracking* mental states in terms of theory of mind abilities. To track what another knows is to exercise theory of mind abilities concerning knowledge; this may but need not involve representing the other's knowledge. By contrast, I suppose that *recognising* and *ascribing* knowledge does involve representing knowledge states.

Nagel's core claim concerns theory of mind cognition, not only theory of mind abilities. The issue concerns representations of knowledge and belief, not merely abilities to track them.

Talk about tracking mental states is a natural

I want to start by stepping back from this question in order to compare and contrast Nagel on knowledge with Bratman on intention. Bratman aims to show that intention is not reducible to belief and desire, and he aims to do this by identifying functional and normative roles for intention which cannot be played by belief or desire. A theme common to Bratman and Nagel, then, is that if someone were to refrain from ascribing intention or knowledge and confine herself to belief and desire only, her abilities to explain thought and action would be compromised. Although Nagel's main argument on this point depends on an apparent contrast in explanatory generality, it may be that the explanatory power of knowledge depends on ***Hawthorne practical reasoning.

Bratman's position is consistent with the view that understanding intention is a more sophisticated achievement than understanding belief and desire.

2. Introduction

Nagel contrasts two views. On the view she rejects, adult humans' 'understanding of action is fundamentally dependent on belief attribution' and in ascribing knowledge states we are in some way drawing on an understanding of belief (p. 3). Her own view is that 'the capacity to recognize belief depends on some prior mastery of the concept of knowledge' (p. 14).⁶ Put roughly, the contrast concerns whether being able to think about knowledge depends on being able to think about belief or whether the converse dependence holds. Of course these two positions may be consistent: perhaps there are dependencies running both ways.

⁶ Nagel also puts her view by saying that 'an ability to track what others would know seems to be the precondition, rather than the product, of an ability to track what they would believe' (p. 3). As explained below, it may be important to distinguish mastery of the concept of knowledge from abilities to track what others know.

3. ***

Arguments for the claim that knowledge is a mental state have been rejected by philosophers on several quite different grounds. Fricker allows (possibly only for the sake of argument) that knowledge does, and is ordinarily taken, to explain action (p. 35) while rejecting the claim that knowledge is a mental state.⁷

What do human adults understand of knowledge? Consider two claims about the nature of knowledge.

Nagel argues that they treat knowledge as explanatory of action, that they treat it as a state (rather than, say, as an ability), and that they treat it as a mental state (rather than, say, as a bodily state).

Is ‘the identification of knowledge as a mental state ... one of the central principles of our [human adults’] intuitive mindreading system?’

4. Tracking vs. Representing

In footnote 25 Nagel writes:

‘By observing that chimpanzees have some capacity to recognize the state of knowledge, one need not thereby credit chimpanzees with any very sophisticated understanding of the nature of knowledge’

I want to distinguish two issues. One is whether

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⁷ See also FriThere is absolutely no tension between knowing’s being a good explanatory state, and each instance of knowing being a conjunctive, hybrid phenomenon.

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