# What Does Knowledge Explain? Commentary on Jennifer Nagel, 'Knowledge as a Mental State'

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#### Abstract

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#### 1. An alternative

I want to start by comparing and contrasting Nagel on knowledge with Bratman on intention. The comparison is inexact but highlights a potentially useful alternative.

Bratman (1999; 1987) aims to show that intention is not analysable in terms of belief and desire. For instance, he opposes the view that intentions are special kinds of beliefs about the future (1999, pp. 257ff). Relatedly, Nagel opposes attempts to analyse knowledge in terms of belief, truth and other ingredients. Bratman aims to show that intentions are irreducible in part by identifying functional and normative roles for intention which cannot be played by belief or desire. In particular, he suggests that intentions play a distinctive role in deliberative planning linked to the coordination of action over much longer periods of time than motor cognition typically handles (1999, p. 223). One consequence of this is that if someone were to refrain from ascribing intention and confine herself to belief and desire only, her abilities to explain thought and action would be compromised. Relatedly, Nagel argues that ascribing knowledge sometimes yields better explanations than ascribing belief would.

The similarities are not very striking, I admit. But the differences are interesting.

Nagel aims to show that knowledge not a special kind of belief by arguing that 'the concept of knowledge is in some sense prior to the concept of belief' (p. 21). This claim about priority seems to be linked to several ideas. Nagel considers the views that belief can be analysed in terms of knowledge and that 'the capacity to recognize belief depends on some prior mastery of the concept of knowledge' (p. 14). Bratman's position, by contrast, involves no such claims about priority. It does not require supposing that belief or desire can be analysed in terms of intention. And it does not require holding that capacities to

recognise belief or desire depend on having the concept of intention. It is consistent with Bratman's view (but not required) to hold that some mindreaders can ascribe beliefs and desires but not intentions, and that an ability to ascribe intentions would be a further, more sophisticated achievement.

I mention this because in later sections I shall offer some objections to Nagel's arguments for her claims about priority. But first I want to consider whether, perhaps by using Bratman's arguments as a model, it is possible to hold that knowledge is a mental state without commitment to any sort of priority. If (as I think) this is possible, objections to arguments involving priority are not necessarily objections to the thesis that knowledge is a mental state.

### 2. Preliminaries

In defending the claim that knowledge is a mental state, Nagel aims to show that 'the identification of knowledge as a mental state is one of the central principles of our intuitive mindreading systems' (p. 33). Is it true that intuitive mindreading systems identify knowledge as a mental state?

Nagel argues for a positive answer partly on the grounds that knowledge features in intuitive explanations of action. This by itself is not sufficient grounds. Even if knowledge features in intuitive explanations of action, it doesn't follow that knowledge is identified as a mental state. For things other than mental states, such as facts, can feature in intuitive explanations of action. And there is no reason to suppose that all such things are intuitively identified, incorrectly, as mental states. So it is would be a mistake to suppose that knowledge is identified as a mental state just because it features in intuitive explanations of action.

But do facts really feature in intuitive explanations of action? The grounds for holding that they do are closely related to those for holding that knowledge so features, and the case for facts is stronger than the case for knowledge. Consider, for example, this explanation: Ayesha went inside because it was getting dark. Note that this explanation could hold even if Ayesha neither knew nor believed that it was getting dark (changes in lighting can affect action independently of belief or knowledge about them). As this indicates, appealing to facts allows us to explain actions which we could not explain by appeal to mental states only, and such explanations have greater generality in one dimension than comparable explanations involving mental states. This is one reason, not decisive but significant, for holding that facts feature along with mental states in intuitive explanations of action. Not everything which features in intuitive explanations of action should be identified as a mental state.

Are there any reasons to doubt Nagel's claim that intuitive mindreading systems identify knowledge as a mental state? One reason is that there seems to be no need for such systems to make an identification either way. Among their roles are prediction and explanation of thought and action. Fulfilling roles such as these surely involves identifying factors which predict or cause actions. But it doesn't seem to require taking a view on whether these factors are mental,

nor even on whether they are states.<sup>1</sup> If I were a mindreading system, I would want to remain neutral on which things are mental states.

So far I have only been skimming the surface of Nagel's argument. A core aim of hers is to oppose the claim that knowledge is a hybrid state involving belief, truth and other factors. Nagel sees this claim as a key reason for denying that knowledge is a mental state. And she suggests that truths about the role of knowledge in intuitive mindreading are incompatible with the claim. In outline, her argument (in nearly her own words, see pp. 4, 21, 33) is this:

1. The capacity to represent belief is not in place until after the capacity to represent knowledge is.

## This entails that:

2. Intuitive representation of knowledge cannot be 'a composite involving intuitive representation of belief'.

## Which in turn is evidence that:

3. Knowledge is not 'a composite of belief and non-mental factors'.

It is not my intention to argue, contra Nagel, that knowledge is composite or that it is not a mental state. For what it's worth, I don't disagree with her on either claim. But I do think there are several problems with the above line of argument. Below I shall suggest that, on balance, the currently available evidence does not support (1). But first, is (2) really evidence for (3)?

To see why not, consider a parallel. Imagine individuals who can represent coffee but not caffeine. These individuals' intuitive representation of coffee cannot be a composite involving an intuitive representation of caffeine. But, you are to imagine, coffee features in their explanations of action. For instance, they explain variations in their own and others' performance by appeal to coffee consumption. And in many cases appeal to coffee consumption allows them to give better (relative to their own ends, at least) explanations than they could give if they were to appeal to caffeine or other coffee components. Clearly none of this is evidence that coffee is not a composite involving caffeine. As this example indicates, non-composite representations of things which are in fact composite are not necessarily misrepresentations and not necessarily defective relative to the ends they serve. Even if knowledge were composite, having non-composite representations of it might still be advantageous in predicting and explaining action.<sup>2</sup> This is why even assuming 'a non-skeptical attitude' (p. 33) to intuitive

<sup>&</sup>lt;sup>1</sup> Hyman (1999, p. 451) argues that propositional knowledge is an ability 'to act, to refrain from acting, to believe, desire or doubt for reasons that are facts.' I am not persuaded that he is right, but I don't think intuitive mindreading systems need to risk the possibility that he is by identifying knowledge as a state.

<sup>&</sup>lt;sup>2</sup> Fricker (2009, p. 51) makes a different but related point: 'There is absolutely no tension between knowing's being a good explanatory state, and each instance of knowing being a conjunctive, hybrid phenomenon.'

mindreading, (2) is not evidence for (3).<sup>3</sup>

We should also be cautious about the inference from (1) to (2). Return to the coffee-but-not-caffiene-representing individuals. Imagine a further stage of their development in which they acquire a capacity to represent caffeine. Now we can no longer be sure that their representation of coffee is not a composite involving representations of caffeine. After all, this further stage might involve a change in their representation of coffee. Similarly, the fact (if it is a fact—see below) that humans acquire a capacity to represent knowledge before they can represent belief does not entail that their representation of knowledge is not eventually a composite involving representation of belief.

So far I have argued that Nagel demands too much of intuitive mindreading systems. As far as we know, their roles are bound up with the particular, with, say, what Miss Kelly knows about Tony and how this will shape her actions towards Eilis. Fulfilling these roles doesn't require identifying knowledge as a mental state (or otherwise), nor does it require representing in ways which reveal whether or not it is a composite involving belief.

While all of this is intended as an objection to some lines of argument in Nagel's paper, this commentary has yet to reach her core claims.

# 3. Priorty

The previous section examined some ways Nagel connects controversy over whether knowledge is a mental state with claims about mindreading. In this section I want to set aside that controversy in order to focus just on mindreading. Right at the core of her paper, Nagel argues that 'the concept of knowledge is in some sense prior to the concept of belief' (p. 21).<sup>4</sup> Why think that the concept of knowledge is in any sense prior to the concept of belief?

Nagel is motivated in part by developmental evidence.<sup>5</sup> 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,

Nagel also appears to suggest that anyone who, like Williamson (2000), holds that belief should be explained in terms of knowledge has reason to hold that 'the capacity to recognise belief depends on some prior mastery of the concept of knowledge' (p. 14). This is not straightforward if, as Nagel allows elsewhere (in footnote 20), it is possible to recognise something without knowing everything about it and, in particular, without knowing every conceptual truth about it.

<sup>&</sup>lt;sup>4</sup> Nagel expresses what I take to be a closely related thesis by saying that 'the capacity to recognize belief depends on some prior mastery of the concept of knowledge' (p. 14). And near the start of the paper Nagel advertises the claim 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 will emerge, it may be important to distinguish mastery of the concept of knowledge from abilities to track what others know.

Nagel also considers linguistic development and offers a conjecture about the relative computational costs of attributing knowledge and belief. While Nagel's discussion of cognitive development is quite brief, it may be the strongest part of her case for a priority claim.

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 decisons, such as whether to rely on what someone says (Robinson, Champion & Mitchell 1999; Robinson & Whitcombe 2003) and whether to provide information about the location of an object (Dunham, Dunham & O'Keefe 2000; Liszkowski, Carpenter & Tomasello 2008). Nagel seems to interpret these findings as evidence that 'the concept of knowledge [is] prior to the concept of belief' (p. 25). What Nagel doesn't mention, however, is that the picture becomes more complicated when we take a wider view and consider recent research on infants' and also older children's abilities.

Infants are sensitive to others' false beliefs from around seven months of age or earlier (Kovács, Téglás & Endress 2010). From soon after their first birthday or earlier infants manifest sensitivity to belief in a variety of ways. It is not just that infants look longer when an agent who apparently has a false belief acts as if she knew, which is evidence that such actions violate their expectations (Onishi & Baillargeon 2005; Surian, Caldi & Sperber 2007). It is also that infants' eye movements anticipate actions based on false beliefs (Southgate, Senju & Csibra 2007), and 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). These findings complicate the interpretation of older children's failure to pass standard false belief tasks.

Of course none of the evidence from infants establishes (at least not in any straightforward way) that typically developing humans do not deploy a concept of knowledge before they deploy a concept of belief. After all, it is an open question whether infants' abilities are best explained by their having a concept of belief. And if we do accept that these abilities are evidence that infants have a concept of belief, it remains possible that capacities to represent knowledge appear before capacities to represent belief. My point is just that currently available evidence does not straightforwardly support the view that children deploy the concept of knowledge before they deploy the concept of belief.

Children's abilities to distinguish knowledge from ignorance are also harder to interpret than just the evidence Nagel mentions might suggest. Children's competence in dealing with knowledge appears to develop over several years. Around the fourth and fifth years of life there are marked improvements in children's understanding of expertise (Lutz & Keil 2002; Sobel & Corriveau 2010), of the links between what people know and what they say or might say (Robinson 1994; Robinson, Butterfill & Nurmsoo 2010), and their understanding of sources of knowledge (O'Neill, Astington & Flavell 1992; O'Neill & Chong 2001; Robinson, Haigh & Pendle 2008). As you might expect, there

Nagel doesn't explicitly say that there is evidence for this claim. What she says is just that the view is 'widely held' and that that the experimental work she cites 'may help to clarify why psychologists ... generally take the concept of knowledge to be prior to the concept of belief' (p. 25). The key issue, though, is surely what the available evidence shows.

is debate about whether two- and three-year-olds' talk about, and sensitivity to, knowledge is best explained by supposing that it involves deploying a concept of knowledge. The leading alternative is not the conjecture that children are merely deploying 'behavioural rules'. It is the conjecture that children have a fragmentary and limited understanding of epistemic phenomena, somewhat as earlier scientists were able to identify several electrical phenomena including charge and current without yet having understood how these are connected (or even realising that they must be connected). According to this conjecture, children are sensitive to whether others are engaged or disengaged in an event and, when helpful, seek to provide updates about events (O'Neill 2005, pp. 88-9). Children are also sensitive to whether others have a history of reliability and use reliability in accepting or rejecting information offered by others (Koenig & Harris 2005; Birch, Vauthier & Bloom 2008). But these two patterns of sensitivity, to engagement and to reliability, may be only weakly integrated at first (Nurmsoo & Robinson 2009a,b). A hypothesis along these lines can explain how children are able, within limits, to track others' knowledge and ignorance and requires no commitment either way on the issue of whether they have a concept of knowledge.

My aim here is not to argue that anyone lacks the concept of knowledge. The point is just that unless discriminatory abilities are sufficient for concept possession—unless, that is, an ability to distinguish live from dead wires is sufficient for having a concept of electricity—there is no straightforward way to move from the current evidence to a claim about when children first deploy the concept of knowledge. The available evidence does not straightforwardly support the claim that 'children acquire the concept of knowledge before the concept of belief' (p. 22).

It is perhaps tempting to conclude that developmental science is just too messy to be relevant to philosophy. But there is at least as much justification for seeing things the other way around. Much of the difficulty in understanding development is due to inadequacies in the philosophical groundwork. Few philosophical theories of things like action, concepts, knowledge, and mental states are well enough developed to be useful in constructing scientific explanations of how minds work, develop or evolve. In some cases, for example, we are challenged to divide development into two phases, pre- and post-concept- of knowledge, just as we are challenged to divide animals into those with and those without this concept. The complexity of findings in developmental and comparative research (not just in the case of mindreading, but also in research on physical reasoning, number cognition and phonological awareness indicate that this is not likely to be illuminating.

For notions related to O'Neill's *engagement*, see Doherty (2006), Gomez (2007) on intentional relations to objects, Call & Tomasello (2005, p. 58) on tacking targets of visual access, and Butterfill & Apperly (2011) on encountering and registration.

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## 4. Distinctions

The answer may depend on what is involved in having a capacity to recognize belief and a prior mastery of the concept of knowledge. <sup>12</sup> 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 & 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 \*\*\*

#### 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

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)

<sup>&</sup>lt;sup>12</sup> 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.

mastery of the concept of knowledge' (p. 14).<sup>13</sup> 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. \*\*\*

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.<sup>14</sup>

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?'

# 7. 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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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.

<sup>&</sup>lt;sup>14</sup> 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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