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### **In Defense of a Kripkean Dogma**

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In “Against Arguments from Reference”, Ron Mallon, Edouard Machery, Shaun Nichols, and Stephen Stich (hereafter, MMNS) argue that recent experiments concerning reference undermine various philosophical arguments that presuppose the correctness of the causal-historical theory of reference. We will argue three things in reply. First, the experiments in question—concerning Kripke’s Gödel/Schmidt example—don’t really speak to the dispute between descriptivism and the causal-historical theory; though the two theories are empirically testable, we need to look at quite different data than MMNS do to decide between them. Second, the Gödel/Schmidt example plays a different, and much smaller, role in Kripke’s argument for the causal-historical theory than MMNS assume. Finally, and relatedly, even if Kripke *is* wrong about the Gödel/Schmidt example—indeed, even if the causal-historical theory is not the correct theory of names for some human languages—that does not, contrary to MMNS’s claim, undermine uses of the causal-historical theory in philosophical research projects.

#### *1. Experiments and Reference*

MMNS start with some by now famous experiments concerning reference and mistaken identity. The one they focus on, and which we’ll focus on too, is a variant of Kripke’s Gödel/Schmidt example. Here is the question they gave to subjects.

Suppose that John has learned in college that Gödel is the man who proved an important mathematical theorem, called the incompleteness of arithmetic. John is quite good at mathematics and he can give an accurate statement of the incompleteness theorem, which he attributes to Gödel as the discoverer. But this is the only thing that he has heard about Gödel. Now suppose that Gödel was not the author of this theorem. A man called “Schmidt” whose body was found in Vienna under mysterious circumstances many years ago, actually did the work in question. His friend Gödel somehow got hold of the manuscript and claimed credit for the work, which was thereafter attributed to Gödel. Thus he has been known as the man who proved the incompleteness of arithmetic. Most people who have heard the name ‘Gödel’ are like John; the claim that Gödel discovered the incompleteness theorem is the only thing they have ever heard about Gödel. When John uses the name ‘Gödel,’ is he talking about:

- (A) the person who really discovered the incompleteness of arithmetic?
- or
- (B) the person who got hold of the manuscript and claimed credit for the work? (MMNS 2009: 341)

The striking result is that while a majority of American subjects answer (B), consistently with Kripke’s causal-historical theory of names, the majority of Chinese subjects answer (A).<sup>1</sup> To the

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<sup>1</sup> Note that a causal descriptivist about names will also say that the correct answer to this question is (B). So the experiment isn’t really testing descriptivism as such versus Kripke’s causal-historical theory, but some particular versions of descriptivism against Kripke’s theory. These versions of descriptivism say that names refer to the satisfiers of (generally non-linguistic) descriptions that the name’s user associates with the name. One such version is ‘famous deeds’ descriptivism, and the

extent that Kripke's theory is motivated by the universality of intuitions in favour of his theory in cases like this one, Kripke's theory is undermined.

There are now a number of challenges to this argument in the literature. Before developing our own challenge, we'll briefly note five extant ones, which all strike us as at least approximately correct.

1. Kripke's theory is a theory of *semantic* reference. When asked who John is talking about, it is natural that many subjects will take this to be a question about *speaker* reference. And nothing in Kripke's theory denies that *John* might refer to the person who proved the incompleteness of arithmetic, even if his word refers to someone else. (Ludwig 2007, Deutsch 2009)
2. Kripke's argument relies on the *fact* that 'Gödel' refers to Gödel, not to the universality or otherwise of intuitions about what it refers to. That some experimental subjects don't appreciate this fact doesn't make it any less of a fact. (Deutsch 2009)
3. If the subjects genuinely were descriptivists, it isn't clear how they could make sense of the vignette, since the name 'Gödel' is frequently used in the vignette itself to refer to the causal origin of that name, not to the prover of the incompleteness or arithmetic.<sup>2</sup> (Martí 2009)
4. The experiment asks subjects for their judgments about a metalinguistic, and hence somewhat theoretical, question about the mechanics of reference. It's better practice to observe how people actually refer, rather than asking them what they think about reference. (Martí 2009, Devitt forthcoming)
5. **Intuitions about the Gödel/Schmidt case play at best a limited role in Kripke's broader arguments, so experimental data undermining their regularity do not cast serious doubt on Kripke's theory of reference. (Devitt forthcoming)**

We think challenges (1)-(3) work. Something like (4) should work too, although it requires some qualification. Consider, for instance, what happens in syntax. It's true, of course, that we don't go around asking ordinary speakers whether they think *Lectures on Government and Binding* was an advance over *Aspects*. Or, if we did, we wouldn't think it had much evidential value. But that's not because ordinary speaker judgments are irrelevant to syntax. On the contrary, judgments about whether particular strings constitute well-formed sentences are an important part of our evidence.<sup>3</sup> But they are not our only evidence, or even our primary evidence; we also use corpus

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descriptions MMNS use are typically famous deeds; nevertheless, that seems inessential to their experiments. When we use 'descriptivism' in this paper, we'll mean any such version of descriptivism. Thanks here to an anonymous referee.

<sup>2</sup> This objection relies on an empirical assumption that may be questionable. It assumes that the subject of the experiment associates the same description with 'Gödel' as John does. A subject who (a) is a descriptivist and (b) associates with the name 'Gödel' the description 'the man who proved the compatibility of time travel and general relativity', can also make sense of the vignette, *contra* Martí. So perhaps the objection could be resisted. But we think this empirical assumption is actually fairly plausible. Unless the experimental subjects were being picked from a very biased sample, the number of subjects who are familiar with Gödel's work on closed time-like curves is presumably vanishingly small! We're grateful here to an anonymous referee.

On a related point, Martí doesn't mention this, but subjects who aren't descriptivists should also object to the vignette, since in the story John doesn't learn Gödel proved the incompleteness of arithmetic, at least not if 'learn' is factive.

<sup>3</sup> This point suggests Martí's criticism of MMNS as stated overshoots. She wants to dismiss arguments from metalinguistic intuitions altogether. But intuitions about well-formedness *are* metalinguistic intuitions, and they are a key part of the syntactician's toolkit. Martí concedes something like this point, but

data about which words and phrases are actually used, and many syntacticians take such usage evidence to trump evidence from metasemantic intuitions.<sup>4</sup> Even when we do seek such intuitive answers, perhaps because there isn't enough corpus data to settle the usage issue, the questions might be about cases that are quite different to the cases we primarily care about. So we might ask a lot about speakers' judgments concerning questions even if we care primarily about the syntax of declarative sentences.

If what Kripke says in *Naming and Necessity* (hereafter, NN) is right, then we should expect something similar in the case of reference. Kripke anticipates that some people will disagree with him about some of the examples, and offers a few replies. (Our discussion here largely draws on footnote 36 of NN.) Part of his reply is a version of point 1 above; those disagreements may well be over speaker reference, not semantic reference. That reply is correct; it's hard for us to hear a question about who someone is talking about as anything but a question about speaker reference. He goes on to note that his theory makes empirical predictions about how names are used.

If I mistake Jones for Smith, I may *refer* (in an appropriate sense) to Jones when I say that Smith is raking the leaves ... Similarly, if I erroneously think that Aristotle wrote such-and-such passage, I may perhaps sometimes use 'Aristotle' to *refer* to the actual author of the passage ... In both cases, I will withdraw my original statement, and my original use of the name, if apprised of the facts. (NN 86n)

This seems entirely right. There's some sense in which John, in MMNS's vignette, is referring to Gödel and some sense in which he's referring to Schmidt. Just thinking about the particular utterance he makes using 'Gödel' won't help much in teasing apart speaker reference and semantic reference. What we should look to are patterns of—or if they're not available, intuitions about—withdrawals of statements containing disputed names. **To use the example Kripke gives here, consider a speaker who (a) associates with the name 'Aristotle' only the description 'the author of *The Republic*', (b) truly believes that a particular passage in *The Republic* contains a quantifier scope fallacy, and (c) is a descriptivist. She might say "Aristotle commits a quantifier scope fallacy in this passage." When she's informed that the passage was written by Plato, she'll no longer utter those very words, but she'll still insist that the sentence she uttered was literally true. That's because she'll claim that in that sentence 'Aristotle' just referred to the author of the passage, and that person did commit a quantifier scope fallacy. A non-descriptivist will take back the claim expressed, though she might insist that what she *intended* to say was true.**

So to show that subjects in different parts of the world really have descriptivist intuitions about the Gödel/Schmidt case, we might ask about whether they think John should withdraw, or clarify,

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claims that the cases are not on a par, because syntax concerns a normative issue and reference does not. We're quite suspicious that there's such a striking distinction between the kind of subject-matter studied by syntacticians and semanticists. Devitt's version of this point is more modest and does not obviously commit to this exaggeration.

<sup>4</sup> Here's one example where testing intuitions and examining the corpus may lead to different answers. Many people think, perhaps because they've picked up something from a bad style guide, that the sentence 'Whenever someone came into Bill's shop, he greeted them with a smile', contains one or two syntactic errors. (It uses a possessive as the antecedent of a pronoun, and it uses 'them' as a bound singular variable.) Even if most subjects in a survey said such a sentence was not a well-formed sentence of English, corpus data could be used to show that it is. Certainly the existence of a survey showing that users in, say, Scotland and New Jersey give different answers when asked about whether the sentence is grammatical would not show that there's a syntactic difference between the dialects spoken in Scotland and New Jersey. You'd also want to see how the sentences are *used*.

his earlier statements if apprised of the facts. Or we might ask whether they would withdraw, or clarify, similar statements they had made if apprised of the facts. Or, even better, we might test whether in practice people in different parts of the world really do withdraw their prior claims at different rates when apprised of the facts about a Gödel/Schmidt case. Kripke is right that given descriptivism, a speaker shouldn't feel obliged to withdraw the original statement when apprised of the facts, but given the causal-historical theory, they should. So there are experiments that we could run which would discriminate between descriptivist and causal-historical approaches, but we don't think the actual experiment MMNS run does so.

**In its broad terms, we agree with Devitt's challenge (5), although we understand the role of the Gödel/Schmidt case rather differently than he does. We turn now to this question.**

## 2. Gödel's Role in Naming and Necessity

In the first section we argued that the experimental data MMNS offer do not show that the correct account of the Gödel/Schmidt example is different in different dialects. In this section we want to argue that there's very little one *could* show about the Gödel/Schmidt example that would bear on the broader question of what the correct theory of reference is. To see this, let's review where the Gödel/Schmidt example comes up in *Naming and Necessity*.

**In the first lecture, Kripke argues, via the modal argument, that names can't be synonymous with descriptions. The reason is that in modal contexts, substituting a name for an individuating description alters truth values. So a pure descriptivism that treats names and descriptions as synonymous is off the table. What's left, thinks Kripke, is what Soames calls "weak descriptivism" (Soames 2003: 356). This is the view that although names are not synonymous with descriptions, and do not abbreviate descriptions, they do have their reference fixed by descriptions.** Here is the way Kripke introduces the picture that he is attacking.

The picture is this. I want to name an object. I think of some way of describing it uniquely and then I go through, so to speak, a sort of mental ceremony: By 'Cicero' I shall mean the man who denounced Cataline ... [M]y intentions are given by first, giving some condition which uniquely determines an object, then using a certain word as a name for the object determined by this condition. (NN 79)

The Gödel/Schmidt example, or at least the version of it that MMNS discuss, comes up in Kripke's attack on one of the consequences of this picture of naming. (A variant on the example, where no one proves the incompleteness of arithmetic, is used to attack another consequence of the theory.) So the role of the Gödel/Schmidt example is to undermine this picture of names and naming.

But note that it is far from the only attack on this picture. Indeed, it is not even the first attack. Kripke's first argument is that for most names, most users of the name cannot give an individuating description of the bearer of the name. In fact, those users cannot even give a description of the bearer that is individuating *by their own lights*. The best they can do for 'Cicero' is 'a Roman orator' and the best they can do for 'Feynman' is 'a famous physicist'. (NN 81) But it isn't that these users think that there was only one Roman orator, or that there is only one famous physicist. It's just that they don't know any more about the bearers of these names they possess. The important point here is that Kripke starts with some examples where the best description a speaker can associate with a name is a description that isn't individuating *even by the speakers' own lights*. And he thinks that descriptivists can't explain how names work in these cases.

Now perhaps we'll get new experimental evidence that even in these cases, some experimental subjects have descriptivist intuitions. Some people might intuit that if a speaker does not know of any property that distinguishes Feynman from Gell-Mann, their name 'Feynman' is indeterminate in reference between Feynman from Gell-Mann. We're not sure what such an experiment would tell us about the metaphysics of reference, but maybe someone could try undermining Kripke's argument this way. But that's not what MMNS found; their experiments don't bear on what Kripke says about 'Feynman', and hence don't bear on his primary argument against weak descriptivism.

Some philosophers will hold that although the picture Kripke describes here, i.e., weak descriptivism, can't be right in general for Feynman/Gell-Mann reasons, it could be true in some special cases. We agree. So does Kripke. The very next sentence after the passage quoted above says, "Now there may be some cases in which we actually do this." (NN 79) And he proceeds to describe three real life cases (concerning 'Hesperus', 'Jack the Ripper' and 'Neptune') where the picture is plausibly correct. But he thinks these cases are rare. In particular, we shouldn't think that the existence of an individuating description is sufficient reason to believe that we are in such a case. That, at last, is the point of the Gödel/Schmidt example. His conclusion from that example is that weak descriptivism isn't correct even in those special cases of names where the speaker possesses a description that she *takes* to be individuating.<sup>5</sup>

Michael Devitt (forthcoming) also argues that MMNS exaggerate the importance of the Gödel/Schmidt case. He identifies a number of Kripke's other arguments (including the Feynman one we mention) that he takes to be more central, and, like us, he argues that MMNS's results do not cast doubt on these arguments. We agree, noting only two points of difference. First, as suggested above, although the Gödel/Schmidt case is not the only or the most central motivation for Kripke's theory of reference, we do think that it plays a distinctive role, compared with that of, for instance, the Feynman case. It refutes even the weak version of weak descriptivism according to which, in the special case in which subjects do possess individuating descriptions, those descriptions determine reference. We think the Gödel/Schmidt case (together with the Peano/Dedekind case) form the basis of the only argument in *Naming and Necessity* against this weak weak descriptivism. (On a closely related point, we, unlike Devitt, take the Gödel/Schmidt case to be addressing a quantitative question about how common descriptive names are, not the qualitative question about whether the causal-historical theory is true at all; we'll expand on this point below.) Second, Devitt expresses some scepticism about the Gödel/Schmidt judgment on the grounds that the relevant case is somewhat 'fanciful'—actual cases, Devitt suggests, are better to be trusted. While there is surely some truth in the suggestion that intuitions about esoteric and complicated cases can be less trustworthy than those about everyday ones, we see little reason for concern in this instance; the Gödel case does not describe a scenario we should expect to find trouble thinking about.

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<sup>5</sup> **The Gödel/Schmidt example is also distinctive in another way, in that the description in question actually applies to the referent of the name, and indeed speakers actually know this. But the flow of the text around the example (especially on page 84) suggests Kripke intends the example to make the same point as is made by other examples, such as the Peano/Dedekind case (in which the possessed description doesn't actually apply to the referent of the name). So this is probably not crucial to the point the example makes. We'll return below to the issue of just what this example shows. The key point is that the more distinctive the example is, the *less* that would follow if Kripke were wrong about the example; he might only be wrong about examples with just those distinctive features.**

Our reconstruction of the structure of Kripke's argument should make it clear how *unimportant* the Gödel/Schmidt example is to the broader theoretical questions. If Kripke were wrong about the Gödel/Schmidt case, that would at most show that there are a few more descriptive names than we thought there were. But since the existence of some descriptive names is consistent with the causal-historical theory of reference, the existence of a few more is too. All the Gödel/Schmidt example is used for in *Naming and Necessity* is to show that the number of descriptive names in English is not just small, it is *very* small. But the truth of the causal-historical theory of reference doesn't turn on whether there are few descriptive names, or very few descriptive names.

Once we see that the Gödel/Schmidt example concerns a quantitative question (are descriptive names rare or very rare?) rather than a qualitative question (is the causal-historical theory correct?), we can see some limitations of the experiment MMNS rely on. The case that MMNS describes to their subjects has several distinctive features, and it isn't clear that we'd be justified in drawing conclusions from it about cases that lack those features. Here is one such feature. The subject of the vignette (John) acquires the name 'Gödel' at the same time as he acquires an individuating description of Gödel. Suppose it turned out that, in some dialects at least, that would be sufficient for the name to be a descriptive name; i.e., for it to be a name whose reference is fixed by a description somehow attached to that name. If this conjecture is true, then descriptive names are a little more common than Kripke thinks they are, but not a lot more common. Now we don't actually think this conjecture is true. And for the reasons given in section 1 we don't think this experiment is evidence for it. What we do think is that (a) it's hard to see how studying reactions to cases like the Gödel/Schmidt example could show more than that some such claim about the prevalence of descriptive names is true, and (b) such claims are not inconsistent with the causal-historical theory.

**We've argued that even if Kripke is wrong about the Gödel/Schmidt example, that doesn't undermine the arguments for the main conclusions of *Naming and Necessity*. A natural inference from this is that experiments about the Gödel/Schmidt example can't undermine those conclusions. We think the natural inference is correct. A referee has suggested that this is too quick. After all, if we have experimental evidence that Kripke is wrong about the Gödel/Schmidt case, we might have some grounds for suspicion about the other cases that Kripke uses in the arguments for more central conclusions. That is, if MMNS are right about the Gödel/Schmidt case, that doesn't give us a *deductive* argument against the other anti-descriptivist moves, but it might give us an *inductive* argument against them. This is an important worry, but we think it can be adequately responded to.**

**The first thing to note is that it would be foolish to fall back to a general scepticism about human judgment just because people disagree in their intuitive reactions to some tricky cases. This point is well argued by Timothy Williamson in his (2007: Ch. 6). If there's a worry here, it must be because the evidence about the Gödel/Schmidt example supports a more modest generalisation about judgments about cases, but that generalisation is nevertheless strong enough to undermine Kripke's other arguments. We doubt such a generalisation exists.**

**It can't be that the experiments about the Gödel/Schmidt example show that intuitive judgments about reference are systematically mistaken. Most of our intuitions in this field are surely correct. For instance, our intuitions that 'Kripke' refers to Kripke and not Obama, and that 'Obama' refers to Obama and not Kripke, are correct. (And experiments like the ones MMNS ran don't give us any reason at all to doubt that.) And we could**

produce many more examples like that. At most, the experiments can show us that there are spots of inaccuracy in a larger pool of correct judgments.

**It might be argued that we should be sceptical of intuitions about reference in counterfactual cases. The correct judgments cited in the previous paragraph are all about real cases, but the Gödel/Schmidt example is not a real case. Now we don't think that the experiments do undermine all intuitions about reference in counterfactual cases, but even if they did, that wouldn't affect the Kripkean argument. That's because the central argument against descriptivism at the start of Lecture II involves real cases. The heavy lifting is done by cases where speakers don't think they have an individuating description to go along with names they use (e.g., 'Feynman' and 'Gell-Mann'), or they believe they have an individuating description, but that description involves some kind of circularity (e.g., 'Einstein', 'Cicero'). It seems to us that these cases are much more like the cases where we know people have accurate intuitions about reference (e.g., 'Obama' refers to Obama), than they are like cases where there is some dispute about their accuracy (e.g., 'Gödel' would refer to Gödel even if Schmidt had proved the incompleteness of arithmetic). So there's no reason to doubt the intuitions that underlie these central Kripkean arguments. And so there's no reason from these experiments to doubt the anti-descriptivist conclusions Kripke draws from them.**

### *3. Reference in Philosophy*

If the data about the Gödel/Schmidt example don't undermine the causal-historical theory of reference, then presumably they don't undermine philosophical uses of that theory. But we think MMNS overstate the role that theories of reference play in philosophical theorising, and we'll end by saying something about this.

One simple reaction to MMNS's argument is to say that at most they show that the causal-historical theory of reference is not true of some dialects. But, a philosopher might say, they are not writing in such a dialect, and the causal-historical theory is true of their dialect. And that's all they needed for their argument. MMNS anticipate this objection, and reply to it in section 3.3 of their paper. The reply is, in essence, that such a picture would make a mess of communication. If we posit dialectical variation to explain different reactions to the Gödel/Schmidt example, and to other examples, then we cannot know what dialect someone is speaking without knowing how they respond to these examples. And plainly we don't need to quiz people in detail about philosophical examples in order to communicate with them.

We offer three replies.

First, at least one of us is on record raising in principle suspicions about this kind of argument (Maitra 2007). The take-home message from that paper is that communication is a lot easier than many theorists have supposed, and requires much less pre-communicative agreement. It seems to us that the reply MMNS offer here is susceptible to the arguments in that paper, but for reasons of space we won't rehearse those arguments in detail.

Second, it's one thing to think that variation in *reference* between dialects leads to communication breakdown, it's another thing altogether to think that variation in *meta-semantics* leads to such breakdown. A little fable helps make this clear. In some parts of Melbourne, 'Gödel' refers to Gödel because of the causal chains between the users of the name and the great mathematician. In other parts, 'Gödel' refers to Gödel because the speakers use it as a descriptive name, associated with the description 'the man who proved the incompleteness of arithmetic'. Kevin doesn't know which area he is in when he sees a plaque over a door saying "Gödel lived

here”. It seems to us that Kevin can understand the sign completely without knowing how ‘Gödel’ got its reference. Indeed, he even knows what proposition the sign expresses. So meta-semantic variation between dialects need not lead to communicative failure, even when hearers don’t know which dialect is being used.

Third, if MMNS’s argument succeeds, it seems to us that it shows descriptivist theories, including the weak weak descriptivism that Kripke is arguing against with the Gödel/Schmidt example, are doomed. (The arguments in this paragraph are not original. Similar arguments are used frequently in, e.g., Fodor and Lepore (1992).) It’s a platitude that different people know different things. Barring a miracle, that means different people will associate different descriptions with different names. If there is widespread use of descriptive names, that means there will be widespread differences in which descriptions are associated with which names. And that will produce at least as much communicative difficulty as having some people be causal-historical theorists and some people be descriptivists. In short, if MMNS’s argument against ‘referential pluralism’ is sound, there is an equally sound argument against descriptivism. **And note that this argument doesn’t rely on any thought experiments about particular cases. It doesn’t even rely on thought experiments about names like ‘Einstein’, where there isn’t any evidence that Kripke is wrong about how those names work.**

**Dialectically, the situation is this. MMNS have offered an argument from the possibility of communicating under conditions of ignorance about one’s interlocutor’s knowledge. Similar arguments have been offered against descriptivism. If such arguments are successful, then descriptivism is false, and there’s no problem with philosophers making arguments from the falsity of descriptivism. If such arguments are unsuccessful, then MMNS haven’t shown that it is wrong for philosophers to assume that the causal-historical theory is the right theory for *their* dialect, even if some other people are descriptivists. And, as MMNS concede, as long as the philosophers themselves speak a causal-historical theory dialect, the uses of the causal-historical theory in philosophy seem appropriate. The only way this argument could fail is if MMNS’s argument from the possibility of communicating under conditions of ignorance about one’s interlocutor’s knowledge is stronger than the analogous arguments against descriptivism. But we see no reason to believe that is so. If anything, it seems like a weaker argument, because of the considerations arising from our fable about Kevin and the ‘Gödel lived here’ sign.**

So we don’t think MMNS have a good reply to the philosopher who insists that they only need the causal-historical theory to be true of *their* dialect. But in fact we think that philosophers rarely even assume that much.

Let’s consider one of the examples that they cite: Richard Boyd’s use of the causal-historical theory of reference in developing and defending his version of “Cornell Realism” in his (1988). Here’s one way one could try and argue for moral realism from the causal-historical theory.

1. The causal-historical theory of reference is the correct theory of reference for all words in all dialects (or at least our dialect).
2. So, it is the correct theory for ‘good’.

But that’s not Boyd’s actual argument. And that’s a good thing, because the first premise is implausible. Someone defending it has to explain descriptive names like ‘Neptune’, logical terms like ‘and’, empty predicates like ‘witch’, and so on. And Boyd’s not in that business. His argument is subtler. Boyd uses the causal-historical theory for two purposes. First, he uses the development of a naturalistically acceptable theory of reference as part of a long list of



developments in post-positivist philosophy that collectively constitute a “distinctively realist conception of the central issues in the philosophy of science” (Boyd 1988: 188). Second, he uses the causal-historical theory of reference, as it applies to natural kind terms, as part of a story about how we can know a lot about kinds that are not always easily observable (Boyd 1988: 195-6). By analogy, he suggests that we should be optimistic that a naturalistically acceptable moral theory exists, and that it is consistent with us having a lot of moral knowledge.

Once we look at the details of Boyd’s argument, we see that it is an argument that duelling intuitions about the Gödel/Schmidt example simply can’t touch. In part that’s because Boyd cares primarily about natural kind terms, not names. But more importantly it is because, as we noted in section 2, the only point that’s at issue by the time Kripke raises the Gödel/Schmidt example is the *number* of descriptive names. Just looking at the arguments Kripke raises before that example gives us more than enough evidence to use in the kind of argument Boyd is making.

It would take us far beyond the length of a short reply to go through every philosophical use of the causal-historical theory that MMNS purport to refute in this much detail. But we think that the kind of response we’ve used here will frequently work. That is, we think few, if any, of the arguments they attack use the parts of the causal-historical theory that Kripke is defending with the Gödel/Schmidt example, and so even if that example fails, it wouldn’t undermine those theories.

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