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# Against The Contingent A Priori

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## Abstract

Since Saul Kripke's *Naming and Necessity*, the view that there are contingent a priori truths has been surprisingly widespread. In this paper, I argue against that view. My first point is that in general, occurrences of predicates "a priori" and "contingent" are implicitly relativized to some circumstance, involving an agent, a time, a location. My second point is that a priority entails necessity, whenever the two are relativized to the same circumstance. In other words, what is known to be the case a priori (by an agent in a circumstance) could not fail to be the case (in the same circumstance), hence is necessary.

## § 1. Clarifying the Meaning of the Terms 'A Priori' and 'Contingent'

In *Naming and Necessity*, Saul Kripke claims that there are contingent a priori truths. In *Demonstratives*, David Kaplan not only endorses this claim, but suggests that the case is even more obvious if formulated with the help of indexicals. Kaplan claims that in the "logic" of indexicals, there are many logically valid truths that are not necessary. The putative existence of contingent a priori truths is often used as an argument for the distinction between meanings (Kaplan's "characters") and contents in natural language semantics. This paper originated with some general concerns regarding the character/content distinction, although its main goal is to help destroying the myth of the contingent a priori. The plan is to offer two rebuttals of Kripke's proposal, followed by two rebuttals of Kaplan's proposal.

Let me start by clarifying how I shall understand the terms *a priori*, *a posteriori*, *necessary* and *contingent*. A *necessary* truth is what happens to be the case and could not fail to happen be the case. A *contingent* truth is what happens to be the case but could fail to be

the case. An *a priori* truth is what is known, independently of any empirical input, to be the case, while an *a posteriori* truth is what is known to be the case only given some antecedent empirical knowledge.

So far, the idea that there are any *a priori* truths is, to say the least, questionable, since, by definition, a *a priori* truth presupposes a cognitive agent, and that agent will *de facto* have a great amount of empirical input – for instance, by having experience of her own cognitive processes or thoughts. It becomes unclear, then, whether the agent should ever be able to know anything *a priori*, as her knowledge of any given truth may always turn out to depend on some empirical knowledge regarding the cognitive processes involved in the very knowledge of that truth.

Fortunately, it does not matter much to the present discussion whether some knowledge depends on the empirical input coming from the cognitive processes involved in this knowledge. A more fruitful notion of a *a priori* truth is the truth that a given agent, in a given circumstance, can know independently of knowledge that depends on any empirical inputs *other than* those that the agent has accumulated up to that circumstance. So on this definition, a truth that is a *a posteriori* with respect to a given circumstance will become a *a priori* with respect to subsequent circumstances in which its knowledge is taken for granted. This is, then, a fairly weak notion of a *a priori* truth: the focus is on truth whose knowledge does not require any *further* empirical investigation. I will argue that even on this weak reading of 'a *a priori*', there aren't any contingent *a priori* truths.

I believe that the notions of *relative* contingency and necessity are also more fruitful than those of absolute contingency and necessity. A reader familiar with modal logic will immediately recall the notion of accessibility. Something is necessary relative to a given circumstance when it obtains in all the circumstances *accessible* from that circumstance. For example, consider the actual circumstance, in which (as of now) Paris is the capital of France. Suppose that only those circumstances in which it remains true that in 2007, Paris is the capital of France, are metaphysically accessible from these circumstances. Then, with respect to the actual circumstances, it is necessary that Paris *is* the capital of France. Of course, we do not want to be committed to determinism, and we do want to say that

it could have happened that some place other than Paris were the capital of France. Another way of saying this is to say that the truth that in 2007, Paris is the capital of France, while being necessary with respect to circumstances in which it is settled that Paris is the capital of France (as the actual circumstances), is only a contingent truth with respect to circumstances in which it is not yet settled what would be the capital of France (as, say, one century ago).

The metaphysical picture underlying the present discussion is one in which the accessibility relation is a partial order (as in the system of modal logic known as S4), rather than an equivalence relation (as it is in S5). This choice comes naturally once it is agreed that the notions of relative contingency and necessity are more fruitful than those of absolute contingency or necessity. For, a system such as S5, in which, within a given equivalence class, every point is accessible from every other point, trivializes the notion of accessibility and collapses relative contingency/necessity into absolute contingency/necessity.

If we agree to understand the terms along the lines sketched above, we should be inclined to think that if something is a priori then it is necessary, and if something is contingent, then it is a posteriori. Here is why. Take any agent *a*, any circumstance *c*, and any truth *p*. Suppose that in *c*, *a*'s knowledge gathered prior to *c* (empirically or otherwise) is all that *a* needs in order to know that *p* holds. But then, *p* could no longer fail to hold in *c*. For if *p* failed to hold in *c*, *a*'s knowledge gathered prior to *c* would not have sufficed for *a* to know that *p* holds in *c* – which contradicts our assumption that in *c*, *a* knows a priori that *p* holds.

## § 2. Kripke on the Contingent A Priori

My claim, for which I have just outlined an argument, is that what is known a priori to be the case could not fail to be the case; in other words, what is known a priori is necessary. How come, then, that the idea that there are contingent a priori truths has been received with so much enthusiasm? Let me trace the issue back to Kripke:

What then, is the *epistemological* status of the statement 'Stick *S* is one metre long at *t*<sub>0</sub>', for someone who has fixed the metric system by reference to stick *S*? It would seem that he knows it a priori. For if he used stick *S* to fix the reference of the term 'one metre', then as a result of this kind of 'definition' (which is not an abbreviative or synonymous definition), he knows automatically, without further

investigation, that *S* is one metre long. On the other hand, even if *S* is used as a standard of a metre, the *metaphysical* status of the statement 'Stick *S* is one metre long' will be that of a contingent statement, provided that 'one metre' is regarded as a rigid designator: under appropriate stresses and strains, heatings or coolings, *S* would have had a length other than one metre even at  $t_0$ . (Such statements as 'The water boils at 100 degrees centigrade, at sea level' can have a similar status.) So in this sense, there are contingent a priori truths.<sup>1</sup>

Kripke is cautious enough here to qualify his claim that there are contingent a priori truths with an "in this sense". But in what sense exactly? Presumably, the term 'contingent' is taken in an absolute sense. For, were it relativized to circumstances in which one has used stick *S* as a standard of a meter, then, if we assume that the only accessible circumstances are those in which it is settled that stick *S* has been used as a standard of a meter, then Kripke's claim would be that, given that the length of stick *S* (at  $t_0$ ) is one meter, it may still be something other than a meter – say, 90 cm – which is absurd. (What is not absurd is that even if the length of stick *S* is actually one meter, it *might have happened* to be something other than a meter.) On the other hand, the term 'a priori' appears to be implicitly relativized to those circumstances in which stick *S* was used as a standard of a meter.

When Kripke says that "in this sense, there are contingent a priori truths," the sense in which we may accept his claim implies that the predicates 'contingent' and 'a priori' should be relative to distinct circumstances. Contingency is relative to circumstances in which it is not settled what was used as a standard of a meter (while it is settled that the term 'meter' picks up the length it actually picks up, viz. the equivalent of 39.37 inches). A priori, on the other hand, is relative to circumstances in which it is settled that specifically the length of stick *S* is used as a standard of a meter.

I shall now argue that if there is such a mismatch of relativization, then the idea of a priori contingent truths does not give us anything to be excited about.

Here is, again, the statement under consideration:

(A) Stick *S* is one meter long (at  $t_0$ ).

When we are asked about the epistemological or the metaphysical status of the truth expressed by (A), there are several ways to

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<sup>1</sup> Kripke (1980: 56).

answer the question, depending on what the epistemic and the modal predicate are relative to. Here are the main options:

1. With respect to any circumstance in which the agent has used the length of stick *S* as a standard of a meter, the truth expressed by (A) is a priori. (TRUE)
2. The truth expressed by (A) is a priori *tout court*, that is to say, for any agent in any circumstance. (FALSE)
3. The truth expressed by (A) is contingent with respect to any circumstance in which the agent has used stick *S* as a standard of a meter. That is to say, from any such circumstance, there is an accessible circumstance in which stick *S* isn't one meter long. (FALSE)
4. The truth expressed by (A) is contingent *tout court*, that is to say, there are circumstances in which stick *S* isn't one meter long. (TRUE)

As indicated, I take claims 1 and 4 to be correct, and 2 and 3 to be incorrect. On the other hand, the following strike me as correct:

- 2'. With respect to any circumstance in which the agent has *not* used stick *S* as a standard of a meter, and in which the length used as a standard of a meter cannot be a priori identified with the length of stick *S*, the truth expressed by (A) is a posteriori. (TRUE)
- 3'. With respect to any circumstance in which it is taken for granted that the the length of the stick *S* is used as a standard of a meter, the truth expressed by (A) is necessary. (TRUE)

Given the various ways in which the expressions under consideration may be disambiguated, we seem to be entitled to any of the following claims:

- i. The truth expressed by (A) is a priori and contingent in one sense; namely, in the sense of 1 and 4.
- ii. The truth expressed by (A) is a priori and necessary in another sense; namely, in the sense of 1 and 3'.
- iii. The truth expressed by (A) is a posteriori and contingent in yet a third sense; namely, that of 2' and 4.
- iv. The truth expressed by (A) is a posteriori and necessary in yet a fourth sense; namely, that of 2' and 3'.

To be sure, it is difficult to devise a situation in which one would simply say that the truth of (A) is a posteriori and necessary, as in iv. The difficulty lies in the fact that 'a posteriori' and 'necessary' would have to be implicitly relativized to distinct and, moreover, incompatible circumstances. By parity of reasoning, i should not be

much better, given that the epistemic and the modal predicate are again relativized to distinct circumstances. The most appropriate thing to say is that the truth expressed by (A) is neither a priori *tout court* nor necessary *tout court*, and that it is a priori to the same extent to which it is necessary.

### § 3. One More Attempt (on Kripke's Behalf)

At this point, one might object that I have simply missed Kripke's point. For, consider a circumstance, call it *Circ*, in which the agent has used the length of stick *S* as a standard of a meter; that is to say, a circumstance in which the expression "one meter" picks out as its reference the actual length of stick *S* in that circumstance. Suppose that in *Circ*, stick *S* is a bit longer than a meter, say, 40 inches (recall that 1m is 39.37in). What is, then, the epistemic status of the truth expressed by (A) with respect to *Circ*? One might want to say that it is an a priori truth, since in *Circ*, the meter has been defined as being the length of stick *S* (hence 'meter' there stands for 40in, rather than 39.37) But one might also want to say that (A) expresses something that is false with respect to *Circ*, since, after all, stick *S* in *Circ* is 40 inches long, which is a bit more than a meter. But then, one might continue, this must mean that the truth expressed by (A) (in the original setting) is only contingent, given that there are circumstances, such as *Circ*, in which it does not hold (even though stick *S* has been used there, too, as a standard of a meter). And from this it would follow that, contrary to what I have suggested, that claim 3 is true:

3. The truth expressed by (A) is contingent with respect to any circumstance in which the agent has used stick *S* as a standard of a meter.

The reasoning that I have sketched is problematic. To see why, let me first articulate two assumptions on which it relies:

- a1. The truth expressed by (A) is a priori with respect to circumstance *C* iff<sub>def.</sub>  
if sentence (A) were uttered in *C*, then any agent in *C* would know a priori that that utterance of (A) expresses a truth.
- a2. The truth expressed by (A) is contingent with respect to circumstance *C* iff<sub>def.</sub>  
sentence (A), as uttered in the actual circumstances, expresses something that correctly characterizes the actual

circumstances, while incorrectly characterizing some circumstance accessible from *C*.

In other words, according to this view, when we ask for the epistemic status of a truth expressed by a sentence, with respect to a circumstance, we consider the sentence as if it had been uttered in that circumstance. But when we ask for the metaphysical status of a truth expressed by a sentence, with respect to some circumstance, we consider the sentence as actually uttered, and we ask whether the other circumstance is correctly characterized by this utterance here and now. So again, there is a mismatch between what one is talking about when inquiring about the epistemic vs. the metaphysical status of "the truth expressed by (A)." To repair the mismatch, one might want to replace assumption **a2** with the following one:

- a3.** The truth expressed by (A) is contingent with respect to circumstance *C* iff<sub>def.</sub>:  
sentence (A), as uttered in *C*, characterizes *C* correctly, while incorrectly characterizing some circumstance accessible from *C*.

Given **a3**, *Circ* is not a circumstance with respect to which the truth expressed by (A) is at the same time a priori and contingent, and, furthermore, it is unclear how there could be such a circumstance, if we assume that once it is settled that the length of stick *S* (at time *t*<sub>0</sub>) was used as a standard of a meter, then it remains true, in all the accessible circumstances, that it was used as a standard of a meter.

The idea that one can have an a priori contingent truth relative to some particular circumstance may thus be interpreted in two ways. On the more straightforward interpretation, provided by **a1** and **a3**, we get the startling, if not outright contradictory claim that one and the same truth is known, independently of empirical input, to be the case, and may still fail to be the case in that same circumstance in which it is known a priori. On the other interpretation, provided by **a1** and **a2**, the idea *seems* to be that there is a single truth that is a priori and contingent. But as it turns out, **a2** is about the truth expressed by a sentence uttered in the actual circumstances, while **a1** is about what is expressed by a sentence hypothetically uttered in a different circumstance. Since those utterances express different truths, there is no single truth that may be said to be both a priori and contingent.



#### § 4. Kaplan on the Contingent A Priori

David Kaplan has carried Kripke's idea of the contingent a priori into the realm of logic. Kaplan's suggestion is that there are *logical* truths that are contingent:

I wish to parallel [Kripke's] remarks on disconnecting the *a priori* and the *necessary*. The form of a priority that I will discuss is that of logical truth (in the logic of demonstratives)... A truth of the logic of demonstratives, like "I am here now" need not be necessary. There are many such cases of logical truths which are not necessary. (1989: 538)

Kaplan focuses on allegedly logical yet contingent truths expressed by statements of the sentence "I am here now." And if, as seems plausible, logical truths are knowable a priori, then this would give us another instance of the contingent a priori.

Kaplan's example raises interesting issues of its own, some of which would take us astray in our discussion. Let me therefore try to capture Kaplan's insights directly on the meter-example.

There appear to be two ways of "disconnecting the a priori and the necessary." One is to say that the same kind of entity is a priori or a posteriori and necessary or contingent, and that among those entities, some are at the same time a priori and contingent. This is the suggestion that we have been examining previously. We have assumed that what is or is not the case, what could or could not have failed to be the case, and what is known, a priori or a posteriori, to be or not to be the case, are always the same sort of entities (viz. "truths"). I hope to have shown that if it makes sense to say of something that it is a priori and contingent, it makes sense only provided that the predicates 'a priori' and 'contingent' are implicitly relativized to distinct parameters.

The other way of disconnecting the a priori and the necessary is to say that the entities that a priori or a posteriori are not the same as those that are necessary or contingent. That is, epistemic and metaphysical predicates would apply to different sorts of things. This is what Kaplan seems to be suggesting when he writes:

The bearers of logical truth and of contingency are different entities. It is the *character* that is logically true, producing a true content in every context. But it is the content that is contingent or necessary (1989: 530).

Let us apply Kaplan's idea to our working example. Reconsider:

**(A)** Stick *S* is one meter long (at  $t_0$ ).

Furthermore, let us assume that the following is a faithful paraphrase of **A**:

(**A**<sub>1</sub>) The length (at  $t_0$ ) of stick  $S$  = one meter.

Kaplan would say that (**A**<sub>1</sub>) expresses a certain content. Call this content  $p$ . Now,  $p$  does not say that a meter is identical to itself. Rather,  $p$  says that the relation of *being the same length* obtains between a meter and stick  $S$  at time  $t_0$ . So, consider someone who has used the length of stick  $S$  at time  $t_0$  as a standard of a meter. For that person, "a meter" will roughly mean the same as "the *actual* length of stick  $S$  (at  $t_0$ )."  
We may use Kaplan's special device, **dthat**, to indicate that the embedded condition merely serves to single out the thing that actually satisfies that condition uniquely. Statement (**A**<sub>1</sub>) may be paraphrased, then, as follows:

(**A**<sub>2</sub>) The length at  $t_0$  of stick  $S$  = **dthat**(the length at  $t_0$  of stick  $S$ ).

Here is the gist of Kaplan's proposal. The content expressed by (**A**<sub>2</sub>) is that the relation of being the same length obtains between the meter itself (which is what the **dthat**-expression pick out as its reference) and stick  $S$ . This content is contingent, since there are possible circumstances in which stick  $S$  is longer or shorter than a meter. However, the *character* of (**A**<sub>2</sub>), by means of which the content comes to be expressed, can only express something that is actually the case, and, in this respect, the sentence in (**A**<sub>2</sub>) is logically true, and its character is "a priori." One might thus want to say that the *truth* expressed by (**A**<sub>2</sub>) is contingent (because the content is) and a priori (because the character is).

My concern is that it is not clear how the notion of an a priori truth, in the sense of a truth known independently of any empirical input, is supposed to apply to *characters*. For, characters are merely *routes* from a sentence in a context to its content, while contents are supposed to stand for that which is believed or known. Indeed, Kaplan himself introduced an "Epistemic Principle" that says: "Object of thoughts = Contents" (Kaplan 1989: 530).

One might find the following definition promising:

- a4.** A character is a priori iff<sub>def.</sub> independently of any empirical knowledge (other than the required knowledge of language) any agent knows that if sentence  $A$  has that character, then the content

expressed by any utterance of *A* obtains in the circumstances in which the utterance is made.

On this interpretation, to say that a character is a priori amounts, in fact, to saying that a certain content that is *about* this character is known to be the case independently of any empirical knowledge (other than the required knowledge of language). The content that is a priori is the content that says that any utterance of a sentence with the character at stake expresses a content that obtains in the circumstances of the utterance. But what follows from this is that the predicates 'a priori' and 'necessary' are no longer disconnected in virtue of holding of different sorts of entities. For, characters are a priori only in a derivative sense, while what is in fact a priori are contents about characters. What is more, such "a priori" contents are not a priori in any fruitful sense, because they depend on the knowledge of what the given expressions mean. More importantly, there is no single content that can be known independently of experience and yet fail to be the case, hence there is nothing at the same time a priori and contingent.

#### § 5. One More Attempt (on Kaplan's Behalf)

Adherents to Kaplan's proposal might acknowledge that there is nothing contingent and a priori, in the sense that there are no contents at the same time contingent and a priori. But they might persist on the idea that there are "a priori characters," i.e. characters that generate contingent contents, but with which we may associate a priori knowable contents, such as the content that says that any utterance of a sentence with that character expresses a content that obtains in the circumstances of utterance. This very idea, they might continue, is a startling result per se, since it suggests that contingent truths can be known under a priori characters.<sup>2</sup>

I want to show that this idea is pointless. I will argue that in Kaplan's framework, *any* contingent content that can be known at all can be known under an a priori character. And if every contingent truth is an instance of the contingent a priori, in the sense that the contingent content is knowable under an a priori character, the idea of the contingent a priori becomes trivial. So here comes the argument.

<sup>2</sup> Characters are closely related to modes of presentation. The idea of knowing something "under" a character comes from the idea that knowledge, and cognitive processes in general, are mediated by modes of presentation.

Consider some contingent content that says that object **b** has property **P**, noted **P(b)**. Suppose that in circumstance *c* at time *t*, agent *a* comes to know that **P(b)** is the case, and that he comes to know it under the straightforward character of "b has P." The same content, **P(b)**, will be expressed by the following sentence:

- (1) **Dthat**(the only object such that in *c* at *t*, *a* comes to know that it has P) has P.

The content expressed by (1) is, to be sure, contingent. On the other hand, it takes little to realize that the character of (1) is "a priori," since it always yields a content that obtains in the circumstances in which the sentences is uttered.<sup>3</sup>

The lesson to be drawn is that there is nothing illuminating about contingent contents that can be known "under a priori characters." The reason is that the features of the a priori associated with such characters are, in fact, *dissociated* from their contingent contents. For, if I know that **P(b)**, then I can also know it under an a priori character, because I know, independently of empirical knowledge (other than the required knowledge of language) that if the sentence in (1) is uttered, its content (whenever it expresses one) will obtain in that circumstance. The "meta-content," admittedly known a priori, is about the character of (1), while the contingent content that this character expresses is about object **b** and property **P**.

I have just shown how any content that ascribes a property to an object and that can come to be known, can subsequently be known under an a priori character. It is easy to generalize this strategy to show that *any* content that can come to be known, can subsequently be known under an a priori character, thereby showing the idea of contingent content knowable "under a priori character" to be of little interest.

## § 6. Conclusion

I have argued against the contingent a priori by making the fairly obvious point that what is known a priori by an agent in a circumstance cannot fail to be the case in that circumstance. It only makes sense to talk of the contingent a priori if the predicates

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<sup>3</sup> Note that if the sentence in (1) is used in a context in which *a* does not come to know that **P(b)**, no content will be expressed. But my claim is that any content that can come to be known can subsequently be known under an a priori character.

'contingent' and 'a priori' are implicitly relativized to distinct parameters. But if so, then the idea that there are contingent a priori truths gives us nothing to be excited about, and is likelier to confuse than to illuminate.<sup>4</sup>

#### § 7. Cites Works

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<sup>4</sup> Insightful arguments against the contingent a priori have been previously given by Donnellan (1977), Dummett (1981), Evans (1979), et al., but any discussion of those falls beyond the scope of this paper.