

## A Problem for Hofweber’s Ontological Project

Tristan Haze<sup>1</sup>

Received: 9 April 2015 / Revised: 4 May 2015 / Accepted: 24 May 2015 /  
Published online: 20 June 2015  
© Springer Science+Business Media Dordrecht 2015

**Abstract** Thomas Hofweber’s well-known ontological project crucially involves inferring negative existential statements from statements of non-reference, i.e. statements that say that some term or terms do not refer. Here, after explaining the context of this move, I aim to show that it is fallacious, and that this vitiates Hofweber’s ontological project.

**Keywords** Ontology · Hofweber · Semantic descent · Non-existence · Numbers

Thomas Hofweber has for several years been developing a distinctive approach to ontological and metaontological questions.

One of his starting points is the way some ontological questions in philosophy can apparently be settled with trivial arguments - for example, since mathematics has established that there are infinitely many prime numbers, it follows that there are numbers, and so there is no room for a special philosophical discipline of ontology (if it is to respect mathematics) to deal with this as a substantial question, the way ontologists of mathematics seem to try to do. Call this *the puzzle about ontology*.

Hofweber attempts to solve the puzzle about ontology by independently motivating a distinction between two different readings of quantifiers, or two sorts of quantification: internal and external. Internal quantificational statements, unlike external ones, do not work by placing conditions on a domain of objects. (To see that we might need something like this, consider the quantifier in ‘Santa Claus doesn’t exist, therefore there is something that doesn’t exist’.) He then argues that the trivial arguments go through, but only when the quantifiers are given an internal reading. Give the quantifiers an external reading, and it is not clear that their premises have been established - in the case of ‘There are infinitely many prime numbers’, for instance, it might be that mathematics has established this on its internal reading, but not on its external reading.

Hofweber doesn’t just want to solve the puzzle about ontology with his internal/external distinction, however. He also wants to use it to establish answers to certain

---

✉ Tristan Haze  
tristanhaze@gmail.com

<sup>1</sup> Department of Philosophy, The University of Sydney, Sydney, NSW 2006, Australia

(external) ontological questions - negative answers. This is what I call *Hofweber's ontological project*.

Taking the number case, the project goes roughly like this. Hofweber argues that, if we can establish internalism about number-talk, including arithmetic (i.e. if we can establish that the quantifiers involved in number-talk, including arithmetic, are internal ones which do not place conditions on a domain of objects), we can show that the external question of whether numbers exist is left open by this talk, and is thus free for the taking by ontology.

Next, Hofweber argues that numerals, number words like 'four', and terms like 'the number 2' are not referring terms. I.e., that they are not in the business of referring to things. They sometimes assume the superficial grammatical position of referring terms for sophisticated linguistic reasons involving the notion of a 'focus construction' (and other considerations, depending on the kind of occurrence).

Then, on the basis that number terms don't refer, Hofweber concludes (via a principle designed to enable one to infer non-existence of things from statements of non-reference) that numbers don't exist, i.e. that there are no numbers (the quantifier here being intended externally), thus answering one of ontology's fundamental questions. I will good-naturedly call this last step 'the Howler'.

I have previously argued (Haze (2011)) that Hofweber's distinction between internal and external quantification is ill-motivated. Here, I grant that distinction, and even grant that it enables Hofweber to explain the validity of the trivial arguments.

I want to make it clear that the Howler is a fallacious move, and that this vitiates Hofweber's project for answering certain ontological questions (e.g. about numbers, properties and propositions) in the negative. I will not be concerned here with whether Hofweber succeeds in establishing internalism about number-talk - my point is only that his argument from internalism to negative answers in ontology contains a fallacy.

The Howler appears in Hofweber's (2009) contribution to the recent influential anthology on metametaphysics. (I include other relevant papers - Hofweber 2005a, b, 2007 - in the bibliography, to help readers piece together a more detailed view of Hofweber's overall project, but he gives a good sense of it in the paper just mentioned.)

I think my criticism will be most effective if I quote the Howler along with the argument in which it appears, rather than reconstructing it and insisting that that is what Hofweber was doing. Here is the argument:

Let's briefly reflect on what seems to be a central thesis about reference or denotation:

(REF) If Fred exists then 'Fred' refers to Fred.

Of course, I am assuming that 'Fred' is unambiguous, or at least used in the same way throughout. (REF) is uncontroversial, I take it, and probably a conceptual truth. Note that it implies the following:

(REF\*) If 'Fred' doesn't refer to Fred then Fred doesn't exist.

There are two ways for an expression not to refer. One is to aim to refer, but not to succeed. A classic case of this are empty names. Although the details of any example one might try to give of this are controversial, let's nonetheless take

‘Sherlock’ to be an empty name of this kind. That is, suppose Sherlock is a name and thus has the semantic function of picking out an object. But it fails in carrying out that function. It thus doesn’t succeed in referring, and thus doesn’t refer. Thus Sherlock does not exist. Nothing in the world is Sherlock, no matter what in general the world contains. There could be all kinds of people, with all kinds of professions, but no matter how general properties are instantiated in the world, nothing in it is Sherlock. And nothing could be. If ‘Sherlock’ does not refer then Sherlock does not exist. This is all fairly trivial, but I go over it to make it vivid for our next case.

Names aim to refer, but they can fail to succeed in what they aim for. The second way in which an expression might not refer is when it does not even aim to refer. Non-referential expressions, like ‘very’, don’t refer since they don’t even aim to refer. If internalism is correct about talk about numbers, properties, and propositions, then the relevant singular terms are non-referential. They do not aim to refer, and thus they do not refer. According to the above version of internalism ‘two’ is just like ‘most’. But since it doesn’t refer we know that there is no such thing as the number two. Since ‘two’ and ‘the number two’ are non-referring expressions nothing out there is (or can be) the number two. There can be all kinds of objects, abstract or concrete, they can have all kinds of properties and relations to each other. Nonetheless, none of them is (or can be) the number two. Or any of the other numbers. Internalism thus answers the ontological question. (Hofweber 2009, p. 285.)

Note first that Hofweber says that ‘[a]ccording to the above version of internalism “two” is just like “most”’. But what do we get if we substitute ‘most’ for ‘Fred’ in Hofweber’s (REF\*) principle?:

(REF\*-Most) If ‘most’ doesn’t refer to most then most doesn’t exist.

But this seems like ungrammatical nonsense. Furthermore, it doesn’t seem that ‘Does most exist?’ or ‘Is there such a thing as most?’ are substantial, sensible questions. It may be argued that ‘Does most exist? No.’ is not complete gibberish, if it is construed as a kind of metalinguistic point - it’s not true to say ‘Most exists’. This question-and-answer does not appear to be about whether the domain of our external quantifiers meets certain genuine conditions (and not simply metalinguistic conditions such as ‘being referred to by the word “most”’).

So if ‘two’ really is just like ‘most’ in all relevant respects, Hofweber has a problem. There is, of course, an important difference. Consider:

(REF\*-Two) If ‘the number two’ doesn’t refer to the number two then the number two doesn’t exist.

Unlike (REF\*-Most), (REF\*-Two) is superficially grammatical. It even appears not to be nonsense (if we consider it independently of Hofweber’s views). Do either of these two differences help?

Superficial grammaticality doesn't help; consider the nonsensical but superficially grammatical question 'Does the rock of eggs exist?'. This doesn't seem to turn on whether a domain of objects meets some genuine condition. Insofar as we are going to answer it, we are going to answer 'No.', and like the 'most' case, this answer can only amount to a metalinguistic point: there is nothing referred to by 'the rock of eggs'. So, we may allow and respond to the question, as phrased, as a matter of politeness so to speak. And if we are more likely to do this in the present case than in the 'most' case, then this is only because the question in the present case more closely resembles a sensical one. But intuitively it is not what one would call a substantial question, which is what Hofweber needs the question about the number two to be.

The appearance of sense doesn't help either, for Hofweber has no way of explaining it except in terms of internalism; he explains occurrences of number-expressions always in terms of their being non-referring terms that appear in the syntactic guise of referring terms (for sophisticated linguistic reasons). And it is not at all clear what these could be doing in a context like 'There is no ...' where 'There is' is an external quantifier.

In general, the point might be captured by the following principle: *non-existence of something only follows by semantic descent from non-reference when the non-referring term plays the semantic role of referring*. Otherwise you can't semantically descend to a well-formed, sensical proposition.

(This is a necessary condition for the non-existence of something following by semantic descent from non-reference, but it may not be sufficient. I say 'follows by semantic descent' rather than simply 'follows' because "'X" does not refer' may be argued to always imply 'The referent of "X" does not exist' - but there is no semantic descent there, as there is in Hofweber's arguments.)

This seems like the natural view, in lieu of some special story, and Hofweber hasn't given any such story. I conclude that here we have a problem for Hofweber's ontological project.

**Acknowledgments** Thanks to an anonymous referee for a helpful suggestion and a correction, to N.J.J. Smith for some strategic advice, and to Thomas Hofweber for discussion.

## References

- Haze, T. (2011). A Note on Hofweber's Distinction between Internal and External Quantification. <http://sprachlogik.blogspot.com/2011/03/note-on-hofwebers-distinction-between.html>. Accessed 17 June 2015.
- Hofweber, T. (2009). 'Ambitious, yet modest, metaphysics', in David John Chalmers, David Manley & Ryan Wasserman (eds.), *Metametaphysics: New Essays on the Foundations of Ontology*. Oxford University Press.

## Background reading for Hofweber's project

- Hofweber, T. (2005a). Number determiners, numbers, and arithmetic. *The Philosophical Review*, 114, 2.
- Hofweber, T. (2005b). A puzzle about ontology. *Noûs*, 39, 2.
- Hofweber, T. (2007). 'Innocent Statements and their Metaphysically Loaded Counterparts', *Philosophers' Imprint* 7:1, <[www.philosophersimprint.org/007001/](http://www.philosophersimprint.org/007001/)>.