Chapter 10

Naming and Necessity

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I hope that some people see some connection between the two topics in the title. If not, anyway, such connections will be developed in the course of these talks. Furthermore, because of the use of tools involving reference and necessity in analytic philosophy today, our views on these topics really have wide-ranging implications for other problems in philosophy that traditionally might be thought far-removed, like arguments over the mind-body problem or the so-called 'identity thesis'. Materialism, in this form, often now gets involved in very intricate ways in questions about what is necessary or contingent in identity of properties — questions like that. So, it is really very important to philosophers who may want to work in many domains to get clear about these concepts.

[...]

The first topic in the pair of topics is naming. By a name here I will mean a proper name, i.e., the name of a person, a city, a country, etc. It is well known that modern logicians also are very interested in definite descriptions: phrases of the form 'the x such that q[x]', such as 'the man who corrupted Hadleyburg'. Now, if one and only one man ever corrupted Hadleyburg, then that man is the referent, in the logician's sense, of that description. We will use the term 'name' so that it does not include definite descriptions of that sort, but only those things which in ordinary language would be called 'proper names'. If we want a common term to cover names and descriptions, we may use the term 'designator'.

It is a point, made by Donnellan,3 that under certain circumstances a particular speaker may use a definite description to refer, not to the proper referent, in the sense that I've just defined it, of that description, but to something else which he wants to single out and which he thinks is the proper referent of the description, but which in fact isn't. So you may say, 'The man over there with the champagne in his glass is happy', though he actually only has water in his glass. Now, even though there is no champagne in his glass, and there may be another man in the room who does have champagne in his glass, the speaker intended to refer, or maybe, in some sense of 'refer', did refer, to the man he thought had the champagne in his glass. Nevertheless, I'm just going to use the term 'referent of the description' to mean the object uniquely satisfying the conditions in the definite description. This is the sense in which it's been used in the logical tradition. So, if you have a description of the form 'the x such that q[x]' and there is exactly one x such that q[x], that is the referent of the description.

Now, what is the relation between names and descriptions? There is a well known doctrine of John Stuart Mill, in his book A System of Logic, that names have denotation but not connotation. To use one of his examples, when we use the name 'Dartmouth' to describe a certain locality in England, it may be so called because it lies at the mouth of the Dart. But even, he says, had the Dart (that's a river) changed its course so that Dartmouth no longer lay at the mouth of the Dart, we could still with propriety call this place 'Dartmouth', even though the name may suggest that it lies at the mouth of the Dart. Changing Mill's terminology, perhaps we should say that a name such as 'Dartmouth' does have a 'connotation' to some people, namely, it does connote (not to me — I never thought of this) that any place called 'Dartmouth' lies at the mouth of the Dart. But then in some way it doesn't have a 'sense'.

At least, it is not part of the meaning of the name 'Dartmouth' that the town so named lies at the mouth of the Dart. Someone who said that Dartmouth did not lie at the Dart's mouth would not contradict himself.

It should not be thought that every phrase of the form 'the x such that Fx' is always used in English as a description rather than a name. I guess everyone has heard about The Holy Roman Empire, which was neither holy, Roman nor an empire. Today we have The United Nations. Here it would seem that since these things can be so-called even though they are not Holy Roman United Nations, these phrases should be regarded nor as definite descriptions, but as names. In the case of some terms, people might have doubts as to whether they're names or descriptions; like 'God' — does it describe God as the unique divine being or is it a name of God? But such cases needn't necessarily bother us.

Now here I am making a distinction which is certainly made in language. But the classical tradition of modern logic has gone very strongly against Mill's
view. Frege and Russell both thought, and seemed to arrive at these conclusions independently of each other, that Mill was wrong in a very strong sense: really a proper name, properly used, simply was a definite description abbreviated or disguised. Frege specifically said that such a description gave the sense of the name.¹

Now the reasons against Mill's view and in favor of the alternative view adopted by Frege and Russell are really very powerful; and it is hard to see - though one may be suspicious of this view because names don't seem to be disguised descriptions - how the Frege-Russell view, or some suitable variant, can fail to be the case.

Let me give an example of some of the arguments which seem conclusive in favor of the view of Frege and Russell. The basic problem for any view such as Mill's is how we can determine what the referent of a name, as used by a given speaker, is. According to the description view, the answer is clear. If 'Joe Doakes' is just short for 'the man who corrupted Hadleyburg', then whoever corrupted Hadleyburg uniquely is the referent of the name 'Joe Doakes'. However, if there is not such a descriptive content to the name, then how do people ever use names to refer to things at all? Well, they may be in a position to point to some things and thus determine the references of certain names ostensively. This was Russell's doctrine of acquaintance, which he thought the so-called genuine or proper names satisfied. But of course ordinary names refer to all sorts of people, like Walter Scott, to whom we can't possibly point. And our reference here seems to be determined by our knowledge of them. Whatever we know about them determines the referent of the name as the unique thing satisfying those properties. For example, if I use the name 'Napoleon', and someone asks, 'To whom are you referring?', I will answer something like, 'Napoleon was emperor of the French in the early part of the nineteenth century; he was eventually defeated at Waterloo', thus giving a uniquely identifying description to determine the referent of the name. Frege and Russell, then, appear to give the natural account of how reference is determined here; Mill appears to give none.

There are subsidiary arguments which, though they are based on more specialized problems, are also motivations for accepting the view. One is that sometimes we may discover that two names have the same referent, and express this by an identity statement. So, for example (I guess this is a hackneyed example), you see a star in the evening and it's called 'Hesperus'. (That's what we call it in the evening, is that right? - I hope it's not the other way around.) We see a star in the morning and call it 'Phosphorus'. Well, then, in fact we find that it's not a star, but is the planet Venus and that Hesperus and Phosphorus are in fact the same. So we express this by 'Hesperus is Phosphorus'. Here we're certainly not just saying of an object that it's identical with itself. This is something that we discovered. A very natural thing to say is that the real content [is that] the star which we saw in the evening is the star which we saw in the morning (or, more accurately, that the thing which we saw in the evening is the thing which we saw in the morning). This, then, gives the real meaning of the identity statement in question; and the analysis in terms of descriptions does this.

Also we may raise the question whether a name has any reference at all when we ask, e.g., whether Aristotle ever existed. It seems natural here to think that what is questioned is not whether this thing (man) existed. Once we've got the thing, we know that it existed. What really is queried is whether anything answers to the properties we associate with the name - in the case of Aristotle, whether any one Greek philosopher produced certain works, or at least a suitable number of them.

It would be nice to answer all of these arguments. I am not entirely able to see my way clear through every problem of this sort than can be raised. Furthermore, I'm pretty sure that I won't have time to discuss all these questions in these lectures. Nevertheless, I think it's pretty certain that the view of Frege and Russell is false.⁵

Many people have said that the theory of Frege and Russell is false, but, in my opinion, they have abandoned its letter while retaining its spirit, namely, they have used the notion of a cluster concept. Well, what is this? The obvious problem for Frege and Russell, the one which comes immediately to mind, is already mentioned by Frege himself. He said,

In the case of genuinely proper names like 'Aristotle' opinions as regards their sense may diverge. As such may, e.g., be suggested: Plato's disciple and the teacher of Alexander the Great. Whoever accepts this sense will interpret the meaning of the statement 'Aristotle was born in Stagira', differently from one who interpreted the sense of 'Aristotle' as the Stagirite teacher of Alexander the Great. As long as the nominatum remains the same, these fluctuations in sense are tolerable. But they should be avoided in the system of a demonstrative science and should not appear in a perfect language.⁶

So, according to Frege, there is some sort of looseness or weakness in our language. Some people may give one sense to the name 'Aristotle', others may give another. But of course it is not only that; even a single speaker when asked 'What description are you willing to substitute for the name?' may be quite at a loss. In fact, he may know many things about him; but any particular thing that he knows he may feel clearly expresses a contingent property of the object. If 'Aristotle' meant the man who taught Alexander the Great, then saying 'Aristotle was a teacher of Alexander the Great' would be a mere tautology. But surely it isn't; it expresses the fact that Aristotle taught Alexander the Great, something we could discover to be false. So, being the teacher of Alexander the Great cannot be part of [the sense of] the name.

The most common way out of this difficulty is to say 'really it is not a weakness in ordinary language that we can't substitute a particular description for the name; that's all right. What we really associate with the name is a family
of descriptions.' A good example of this is (if I can find it) in Philosophical Investigations, where the idea of family resemblances is introduced and with great power.

Consider this example. If one says, 'Moses did not exist', this may mean various things. It may mean: the Israelites did not have a single leader when they withdrew from Egypt — or: their leader was not called Moses — or: there cannot have been anyone who accomplished all that the Bible relates of Moses — . . But when I make a statement about Moses, — am I always ready to substitute some one of those descriptions for 'Moses'? I shall perhaps say: by 'Moses' I understand the man who did what the Bible relates of Moses, or at any rate, a good deal of it. But how much? Have I decided how much must be proved false for me to give up my proposition as false? Has the name 'Moses' got a fixed and unequivocal use for me in all possible cases?

According to this view, and a locus classicus of it is Searle's article on proper names, the referent of a name is determined not by a single description but by some cluster or family. Whatever in some sense satisfies enough or most of the family is the referent of the name. I shall return to this view later. It may seem, as an analysis of ordinary language, quite a bit more plausible than that of Frege and Russell. It may seem to keep all the virtues and remove the defects of this theory.

Let me say (and this will introduce us to another new topic before I really consider this theory of naming) that there are two ways in which the cluster concept theory, or even the theory which requires a single description, can be viewed. One way of regarding it says that the cluster or the single description actually gives the meaning of the name; and when someone says 'Walter Scott', he means the man such that such and such and such.

Now another view might be that even though the description in some sense doesn't give the meaning of the name, it is what determines its reference and although the phrase 'Walter Scott' isn’t synonymous with 'the man such that such and such and such', or even maybe with the family (if something can be synonymous with a family), the family or the single description is what is used to determine to whom someone is referring when he says 'Walter Scott'. Of course, if when we hear his beliefs about Walter Scott we find that they are actually much more nearly true of Salvador Dali, then according to this theory the reference of this name is going to be Mr. Dali, not Scott. There are writers, I think, who explicitly deny that names have meaning at all even more strongly than I would but still use this picture of how the referent of the name gets determined. A good case in point is Paul Ziff, who says, very emphatically, that names don’t have meaning at all, [that] they are not a part of language in some sense. But still, when he talks about how we determine what the reference of the name was, then he gives this picture. Unfortunately I don’t have the passage in question with me, but this is what he says.

The difference between using this theory as a theory of meaning and using it as a theory of reference will come out a little more clearly later on. But some of the attractiveness of the theory is lost if it isn’t supposed to give the meaning of the name; for some of the solutions of problems that I’ve just mentioned will not be right, or at least won’t clearly be right, if the description doesn’t give the meaning of the name. For example, if someone said 'Aristotle does not exist', means 'there is no man doing such and such', or in the example from Wittgenstein, 'Moses does not exist', means 'no man did such and such', that might depend (and in fact, I think, does depend) on taking the theory in question as a theory of the meaning of the name 'Moses', not just as a theory of its reference. Well, I don’t know. Perhaps all that is immediate now is the other way around: if 'Moses' means the same as 'the man who did such and such' then to say that Moses did not exist is to say that the man who did such and such did not exist, that is, that no one person did such and such. If, on the other hand, 'Moses' is not synonymous with any description, then even if its reference is in some sense determined by a description, statements containing the name cannot in general be analyzed by replacing the name by a description, though they may be materially equivalent to statements containing a description. So the analysis of singular existence statements mentioned above will have to be given up, unless it is established by some special argument, independent of a general theory of the meaning of names; and the same applies to identity statements. In any case, I think it’s false that 'Moses exists' means that at all. So we won’t have to see if such a special argument can be drawn up.

Before I go any further into this problem, I want to talk about another distinction which will be important in the methodology of these talks. Philosophers have talked (and, of course, there has been considerable controversy in recent years over the meaningfulness of these notions) about various categories of truth, which are called 'a priori', 'analytic', 'necessary' — and sometimes even 'certain' is thrown into this batch. The terms are often used as if whether there are things answering to these concepts is an interesting question, but we might as well regard them all as meaning the same thing. Now, everyone remembers Kant (a bit) as making a distinction between 'a priori' and 'analytic'. So maybe this distinction is still made. In contemporary discussion very few people, if any, distinguish between the concepts of statements being a priori and their being necessary. At any rate I shall not use the terms 'a priori' and 'necessary' interchangeably here.

Consider what the traditional characterization of such terms as 'a priori' and 'necessary' are. First the notion of a priority is a concept of epistemology. I guess the traditional characterization from Kant goes something like: a priori truths are those which can be known independently of any experience. This introduces another problem before we get off the ground, because there’s another modality in the characterization of 'a priori', namely, it is supposed to be something which can be known independently of any experience. That
means that in some sense it's **possible** (whether we do or do not in fact know it independently of any experience) to know this independently of any experience. And possible for whom? For God? For the Martians? Or just for people with minds like ours? To make this all clear might involve a host of problems all of its own about what sort of possibility is in question here. It might be best therefore, instead of using the phrase 'a priori truth', to the extent that one uses it at all, to stick to the question of whether a particular person or knower knows something *a priori* or believes it true on the basis of *a priori* evidence.

I won't go further too much into the problems that might arise with the notion of a priority here. I will say that some philosophers somehow change the modality in this characterization from *can* to *must*. They think that if something belongs to the realm of *a priori* knowledge, it couldn't possibly be known empirically. This is just a mistake. Something may belong in the realm of such statements that *can* be known *a priori* but still may be known by particular people on the basis of experience. To give a really common sense example: anyone who has worked with a computing machine knows that the computing machine may give an answer to whether such and such a number is prime. No one has calculated or proved that the number is prime; but the machine has given the answer: this number is prime. We, then, if we believe that the number is prime, believe it on the basis of our knowledge of the laws of physics, the construction of the machine, and so on. We therefore do not believe this on the basis of purely *a priori* evidence. We believe it (if anything is *a posteriori* at all) on the basis of *a posteriori* evidence. Nevertheless, maybe this could be known *a priori* by someone who made the requisite calculations. So 'can be known *a priori*' doesn't mean 'must be known *a priori*'.

The second concept which is in question is that of necessity. Sometimes this is used in an epistemological way and might then just mean *a priori*. And of course, sometimes it is used in a physical way when people distinguish between physical and logical necessity. But what I am concerned with here is a notion which is not a notion of epistemology but of metaphysics, in some (I hope) nonpejorative sense. We ask whether something might have been true, or might have been false. Well, if something is false, it's obviously not necessarily true. If it is true, might it have been otherwise? It is possible that, in this respect, the world should have been different from the way it is? If the answer is 'no', then this fact about the world is a necessary one. If the answer is 'yes', then this fact about the world is a contingent one. This in and of itself has nothing to do with anyone's knowledge of anything. It's certainly a philosophical thesis, and not a matter of obvious definitional equivalence, either that everything *a priori* is necessary or that everything necessary is *a priori*. Both concepts may be vague. That may be another problem. But at any rate they are dealing with two different domains, two different areas, the epistemological and the metaphysical. Consider, say, Fermat's last theorem — or the Goldbach conjecture. The Goldbach conjecture says that an even number greater than 2 must be the sum of two prime numbers. If this is true, it is presumably necessary, and, if it is false, presumably necessarily false. We are taking the classical view of mathematics here and assume that in mathematical reality it is either true or false.

If the Goldbach conjecture is false, then there is an even number, $n$, greater than 2, such that for no primes $p_1$ and $p_2$, both $< n$, does $n = p_1 + p_2$. This fact about $n$, if true, is verifiable by direct computation, and thus is necessary if the results of arithmetical computations are necessary. On the other hand, if the conjecture is true, then every even number exceeding 2 is the sum of two primes. Could it then be the case that, although in fact every such even number is the sum of two primes, there might have been such an even number which was not the sum of two primes? What would that mean? Such a number would have to be one of 4, 6, 8, 10, ...; and, by hypothesis, since we are assuming Goldbach's conjecture to be true, each of these can be shown, again by direct computation, to be the sum of two primes. Goldbach's conjecture, then, cannot be contingently true or false; whatever truth-value it has belongs to it by necessity.

But what we can say, of course, is that right now, as far as we know, the question can come out either way. So, in the absence of a mathematical proof deciding this question, none of us has any *a priori* knowledge about this question in either direction. We don't know whether Goldbach's conjecture is true or false. So right now we certainly don't know anything *a priori* about it.

The terms 'necessary' and 'a priori', then, as applied to statements, are not obvious synonyms. There may be a philosophical argument connecting them, perhaps even identifying them; but an argument is required, not simply the observation that the two terms are clearly interchangeable. (I will argue below that in fact they are not even coextensive — that necessary *a posteriori* truths, and probably contingent *a priori* truths, both exist.)

Another term used in philosophy is 'analytic'. Here it won't be too important to get any clearer about this in this talk. The common examples of analytic statements, nowadays, are like 'bachelors are unmarried'. Kant (someone just pointed out to me) gives as an example 'gold is a yellow metal', which seems to me an extraordinary one, because it's something I think that can turn out to be false. At any rate, let's just make it a matter of stipulation that an analytic statement is, in some sense, true by virtue of its meaning and true in all possible worlds by virtue of its meaning. Then something which is analytically true will be both necessary and *a priori*. (That's sort of stipulative.)
Another category I mentioned was that of certainty. Whatever certainty is, it's clearly not obviously the case that everything which is necessary is certain. Certainty is another epistemological notion. Something can be known, or at least rationally believed, a priori, without being quite certain. You've read a proof in the math book; and, though you think it's correct, maybe you've made a mistake. You often do make mistakes of this kind. You've made a computation, perhaps with an error.

Let's use some terms quasi-technically. Let's call something a rigid designator if in every possible world it designates the same object, a nonrigid or accidental designator if that is not the case. Of course we don't require that the objects exist in all possible worlds. Certainly Nixon might not have existed if his parents had not gotten married, in the normal course of things. When we think of a property as essential to an object we usually mean that it is true of that object in any case where it would have existed. A rigid designator of a necessary existent can be called strongly rigid.

One of the intuitive theses I will maintain in these talks is that names are rigid designators. Certainly they seem to satisfy the intuitive test mentioned above: although someone other than the U.S. President in 1970 might have been the U.S. President in 1970 (e.g., Humphrey might have), no one other than Nixon might have been Nixon. In the same way, a designator rigidly designates a certain object if it designates that object wherever the object exists; if, in addition, the object is a necessary existent, the designator can be called strongly rigid. For example, 'the President of the U.S. in 1970' designates a certain man, Nixon; but someone else (e.g., Humphrey) might have been the President in 1970, and Nixon might not have; so this designator is not rigid.

In these lectures, I will argue, intuitively, that proper names are rigid designators, for although the man (Nixon) might not have been the President, it is not the case that he might not have been Nixon (though he might not have been called 'Nixon'). Those who have argued that to make sense of the notion of rigid designator, we must antecedently make sense of 'criteria of transworld identity' have precisely reversed the cart and the horse; it is because we can refer (rigidly) to Nixon, and stipulate that we are speaking of what might have happened to him (under certain circumstances), that 'transworld identifications' are unproblematic in such cases.16

The tendency to demand purely qualitative descriptions of counterfactual situations has many sources. One, perhaps, is the confusion of the epistemological and the metaphysical, between a priority and necessity. If someone identifies necessity with a priority, and thinks that objects are named by means of uniquely identifying properties, he may think that it is the properties used to identify the object which, being known about it a priori, must be used to identify it in all possible worlds, to find out which object is Nixon. As against this, I repeat: (1) Generally, things aren't 'found out' about a counterfactual situation, they are stipulated; (2) possible worlds need not be given purely qualitatively, as if we were looking at them through a telescope.

Above I said that the Frege-Russell view that names are introduced by description could be taken either as a theory of the meaning of names (Frege and Russell seemed to take it this way) or merely as a theory of their reference. Let me give an example, not involving what would usually be called a 'proper name,' to illustrate this. Suppose someone stipulates that 100 degrees centigrade is to be the temperature at which water boils at sea level. This isn't completely precise because the pressure may vary at sea level. Of course, historically, a more precise definition was given later. But let's suppose that this were the definition. Another sort of example in the literature is that one meter is to be the length of S where S is a certain stick or bar in Paris. (Usually people who like to talk about these definitions then try to make 'the length of' into an 'operational' concept. But it's not important.)

Wittgenstein says something very puzzling about this. He says: 'There is one thing of which one can say neither that it is one meter long nor that it is not one meter long, and that is the standard meter in Paris. But this is, of course, not to ascribe any extraordinary property to it, but only to mark its peculiar role in the language game of measuring with a meter rule.'19 This seems to be a very 'extraordinary property', actually, for any stick to have. I think he must be wrong. If the stick is a stick, for example, 39.37 inches long (I assume we have some different standard for inches), why isn't it one meter long? Anyway, let's suppose that he is wrong and that the stick is one meter long. Part of the problem which is bothering Wittgenstein is, of course, that this stick serves as a standard of length and so we can't attribute length to it. Be this as it may (well, it may not be), is the statement 'stick S is one meter long', a necessary truth? Of course its length might vary in time. We could make the definition more precise by stipulating that one meter is to be the length of S at a fixed time to. It is then a necessary truth that stick S is one meter long at time to? Someone who thinks that everything one knows a priori is necessary might think: 'This is the definition of a meter. By definition, stick S is one meter long at to. That's a necessary truth.' But there seems to me to be no reason to conclude, even for a man who uses the stated definition of 'one meter'. For he's using this definition not to give the meaning of what he called the 'meter', but to fix the reference. (For such an abstract thing as a unit of length, the notion of reference may be unclear. But let's suppose it's clear enough for the present purposes.) He uses it to fix a reference. There is a certain length which he wants to mark out. He marks it out by an accidental
property, namely that there is a stick of that length. Someone else might mark out the same reference by another accidental property. But in any case, even though he uses this to fix the reference of his standard of length, a meter, he can still say, 'if heat had been applied to this stick \( S \) at \( t_0 \), then at \( t_0 \) stick \( S \) would not have been one meter long.'

Lecture II: January 22, 1970

Last time we ended up talking about a theory of naming which is given by a number of theses here on the board.

1. To every name or designating expression ‘\( X \)’, there corresponds a cluster of properties, namely the family of those properties \( \varphi \) such that \( A \) believes ‘\( \varphi X \)’.
2. One of the properties, or some conjointly, are believed by \( A \) to pick out some individual uniquely.
3. If most, or a weighted most, of the \( \varphi \)'s are satisfied by one unique object \( y \), then \( y \) is the referent of ‘\( X \)’.
4. If the vote yields no unique object, ‘\( X \)’ does not refer.
5. The statement, ‘\( X \) exists, then \( X \) has most of the \( \varphi \)'s’ is known \textit{a priori} by the speaker.
6. The statement, ‘\( X \) exists, then \( X \) has most of the \( \varphi \)'s’ expresses a necessary truth (in the idiolect of the speaker).

C. For any successful theory, the account must not be circular. The properties which are used in the vote must not themselves involve the notion of reference in such a way that it is ultimately impossible to eliminate.

C is not a thesis but a condition on the satisfaction of the other theses. In other words, Theses 1–6 cannot be satisfied in a way which leads to a circle, in a way which does not lead to any independent determination of reference. The example I gave last time of a blatantly circular attempt to satisfy these conditions was a theory of names mentioned by William Kneale. I was a little surprised at the statement of the theory when I was reading what I had copied down, so I looked it up again. I looked it up in the book to see if I'd copied it down accurately. Kneale \textit{did} use the past tense. He said that though it is not trifling to be told that Socrates was the greatest philosopher of ancient Greece, it is trifling to be told that Socrates was called 'Socrates'. Therefore, he concludes, the name 'Socrates' must simply mean 'the individual called "Socrates"'. Russell, as I've said, in some places gives a similar analysis. Anyway, as stated using the past tense, the condition wouldn't be circular, because one certainly could decide to use the term 'Socrates' to refer to whoever was called 'Socrates' by the Greeks. But, of course, in that sense it's not at all trifling to be told that Socrates was called 'Socrates'. If this is any kind of fact, it might be false. Perhaps we know that \textit{we} call him 'Socrates', that hardly shows that the Greeks did so. In fact, of course, they may have pronounced the name differently. It may be, in the case of this particular name, that transliteration from the Greek is so good that the English version is not pronounced \textit{very} differently from the Greek. But that won't be so in the general case. Certainly it is not trifling to be told that Isaiah was called 'Isaiah'. In fact, it is false to be told that Isaiah was called 'Isaiah'; the prophet wouldn't have recognized this name at all. And of course the Greeks didn't call their country anything like 'Greece'. Suppose we amend the thesis so that it reads: it's trifling to be told that Socrates is called 'Socrates' by us, or at least, by me, the speaker. Then in some sense this is fairly trifling. I don't think it is necessary or analytic. In the same way, it is trifling to be told that horses are called 'horses', without this leading to the conclusion that the word 'horse', simply \textit{means} 'the animal called a "horse"'. As a theory of the reference of the name 'Socrates' it will lead immediately to a vicious circle. If one was determining the referent of a name like 'Glunk' to himself and made the following decision, 'I shall use the term "Glunk" to refer to the man that I call "Glunk"'; this would get one nowhere. One had better have some independent determination of the referent of 'Glunk'. This is a good example of blatantly circular determination. Actually sentences like 'Socrates is called "Socrates"' are very interesting and one can spend, strange as it may seem, hours talking about their analysis. I actually did, once, do that. I won't do that, however, on this occasion. (See how high the seas of language can rise. And at the lowest points too.) Anyway this is a useful example of a violation of the noncircularity condition. The theory will satisfy all of these statements, perhaps, but it satisfies them only because there is some independent way of determining the reference independently of the particular condition: being the man called 'Socrates'.

I have already talked about, in the last lecture, Thesis 6. Theses 5 and 6, by the way, have converses. What I said for Thesis 5 is that the statement that if \( X \) exists, \( X \) has most of the \( \varphi \)'s, is \textit{a priori} true for the speaker. It will also be true under the given theory that certain converses of this statement hold true also \textit{a priori} for the speaker, namely: if any unique thing has most of the properties \( \varphi \) in the \textit{properly} weighted sense, it is \( X \). Similarly a certain converse to this will be \textit{necessarily} true, namely: if anything has most of the properties \( \varphi \) in the \textit{properly} weighted sense, it is \( X \). So really one can say that it is both \textit{a priori} and necessary that something is \( X \) if and only if it uniquely has most of the properties \( \varphi \). This really comes from the previous Theses 1–4, I suppose. And 5 and 6 really just say that a sufficiently reflective speaker grasps this theory of proper names. Knowing this, he therefore sees that 5 and 6 are true. The objections to Theses 5 and 6 will not be that some speakers are unaware of this theory and therefore don't know these things.
What I talked about in the last lecture is Thesis (6). It's been observed by many philosophers that, if the cluster of properties associated with a proper name is taken in a very narrow sense, so that only one property weight at all, let's say one definite description to pick out the referent—for example, Aristotle was the philosopher who taught Alexander the Great—then certain things will seem to turn out to be necessary truths which are not necessary truths—in this case, for example, that Aristotle taught Alexander the Great. But as Searle said, it is not a necessary truth but a contingent one that Aristotle ever went into pedagogy. Therefore, he concludes that one must drop the original paradigm of a single description and turn to that of a cluster of descriptions.

To summarize some things that I argued last time, this is not the correct answer (whatever it may be) to this problem about necessity. For Searle goes on to say,

Suppose we agree to drop 'Aristotle' and use, say, 'the teacher of Alexander', then it is a necessary truth that the man referred to is Alexander's teacher—but it is a contingent fact that Aristotle ever went into pedagogy, though I am suggesting that it is a necessary fact that Aristotle has the logical sum, inclusive disjunction, of properties commonly attributed to him....

This is what is not so. It just is not, in any intuitive sense of necessity, a necessary truth that Aristotle had the properties commonly attributed to him. There is a certain theory, perhaps popular in some views of the philosophy of history, which might both be deterministic and yet at the same time assign a great role to the individual in history. Perhaps Carlyle would associate with the meaning of the name of a great man his achievements. According to such a view it will be necessary, once a certain individual is born, that he is destined to perform various great tasks and so it will be part of the very nature of Aristotle that he should have produced ideas which had a great influence on the western world. Whatever the merits of such a view may be as a view of history or the nature of great men, it does not seem that it should be trivially true on the basis of a theory of proper names. It would seem that it's a contingent fact that Aristotle ever did any of the things commonly attributed to him today, any of these great achievements that we so much admire.

[...]

To clear up one thing which some people have asked me: When I say that a designator is rigid, and designates the same thing in all possible worlds, I mean that, as used in our language, it stands for that thing, when we talk about counterfactual situations. I don't mean, of course, that there mightn't be counterfactual situations in which in the other possible worlds people actually spoke a different language. One doesn't say that 'two plus two equals four' is contingent because people might have spoken a language in which 'two plus two equals four' meant that seven is even. Similarly, when we speak of a counterfactual situation, we speak of it in English, even if it is part of the description of that counterfactual situation that we were all speaking German in that counterfactual situation. We say, 'suppose we had all been speaking German' or 'suppose we had been using English in a nonstandard way'. Then we are describing a possible world or counterfactual situation in which people, including ourselves, did speak in a certain way different from the way we speak. But still, in describing that world, we use English with our meanings and our references. It is in this sense that I speak of a rigid designator as having the same reference in all possible worlds. I also don't mean to imply that the thing designated exists in all possible worlds, just that the name refers rigidly to that thing. If you say 'suppose Hitler had never been born' then 'Hitler' refers here, still rigidly, to something that would not exist in the counterfactual situation described.

Given these remarks, this means we must cross off Thesis 6 as incorrect. The other theses have nothing to do with necessity and can survive. In particular Thesis 5 has nothing to do with necessity and it can survive. If I use the name 'Hesperus' to refer to a certain planetary body when seen in a certain celestial position in the evening, it will not therefore be a necessary truth that Hesperus is ever seen in the evening. That depends on various contingent facts about people being there to see and things like that. So even if I should say to myself that I will use 'Hesperus' to name the heavenly body I see in the evening in yonder position of the sky, it will not be necessary that Hesperus was ever seen in the evening. But it may be a priori in that this is how I have determined the referent. If I have determined that Hesperus is the thing that I saw in the evening over there, then I will know, just from making that determination of the referent, that if there is any Hesperus at all it's the thing I saw in the evening. This at least survives as far as the arguments we have given up to now go.

How about a theory where Thesis 6 is eliminated? Theses 2, 3, and 4 turn out to have a large class of counterinstances. Even when Theses 2-4 are true, Thesis 5 is usually false; the truth of Theses 3 and 4 is an empirical 'accident', which the speaker hardly knows a priori. That is to say, other principles really determine the speaker's reference, and the fact that the referent coincides with that determined by 2-4 is an 'accident', which we were in no position to know a priori. Only in a rare class of cases, usually initial baptisms, are all of 2-5 true.

What picture of naming do these Theses (1-5) give you? 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 Catiline; and that's what the reference of 'Cicero' will be. I will use 'Cicero' to designate rigidly the man who (in fact) denounced Catiline, so I can speak of possible worlds in which he did not. But still my...
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. Now there may be some cases in which we actually do this. Maybe, if you want to stretch and call it description, when you say: I shall call that heavenly body over there 'Hesperus'. That is really a case where the theses not only are true but really even give a correct picture of how the reference is determined. Another case, if you want to call this a name, might be when the police in London use the name 'Jack' or 'Jack the Ripper' to refer to the man, whoever he is, who committed all these murders, or most of them. Then they are giving the reference of the name by a description. But in many or most cases, I think the theses are false. So let's look at them.

Thesis 1, as I say, is a definition. Thesis 2 says that one of the properties believed by A of the object, or some jointly, are believed to pick out some individual uniquely. A sort of example people have in mind is just what I said: I shall use the term 'Cicero' to denote the man who denounced Catiline (or first denounced him in public, to make it unique). This picks out an object uniquely in this particular reference. Even some writers such as Ziff in Semantic Analysis, who don't believe that names have meaning in any sense, think that this is a good picture of the way reference can be determined.

Let's see if Thesis 2 is true. It seems, in some a priori way, that it's got to be true, because if you don't think that the properties you have in mind pick out anyone uniquely – let's say they're all satisfied by two people – then how can you say which one of them you're talking about? There seem to be no grounds for saying you're talking about the one rather than about the other. Usually the properties in question are supposed to be some famous deeds of the person in question. For example, Cicero was the man who denounced Catiline. The average person, according to this, when he refers to Cicero, is saying something like 'the man who denounced Catiline' and thus has picked out a certain man uniquely. It is a tribute to the education of philosophers that they have held this thesis for such a long time. In fact, most people, when they think of Cicero, just think of a famous Roman orator, without any pretension to think either that there was only one famous Roman orator or that one must know something else about Cicero to have a referent for the name. Consider Richard Feynman, to whom many of us are able to refer. He is a leading contemporary theoretical physicist. Everyone here (I'm sure!) can state the contents of one of Feynman's theories so as to differentiate him from Gell-Mann. However, the man in the street, not possessing these abilities, may still use the name 'Feynman'. When asked he will say: well he's a physicist or something. He may not think that this picks out anyone uniquely. I still think he uses the name 'Feynman' as a name for Feynman.

But let's look at some of the cases where we do have a description to pick out someone uniquely. Let's say, for example, that we know that Cicero was the man who first denounced Catiline. Well, that's good. That really picks someone out uniquely. However, there is a problem, because this description contains another name, namely 'Catiline'. We must be sure that we satisfy the conditions in such a way as to avoid violating the noncircularity condition here. In particular, we must not say that Catiline was the man denounced by Cicero. If we do this, we will really not be picking out anything uniquely, we will simply be picking out a pair of objects A and B, such that A denounced B. We do not think that this was the only pair where such denunciations ever occurred; so we had better add some other conditions in order to satisfy the uniqueness condition.

If we say Einstein was the man who discovered the theory of relativity, that certainly picks out someone uniquely. One can be sure, as I said, that everyone here can make a compact and independent statement of this theory and so pick out Einstein uniquely; but many people actually don't know enough about this stuff, so when asked what the theory of relativity is, they will say: 'Einstein's theory', and thus be led into the most straightforward sort of vicious circle.

So Thesis 2, in a straightforward way, fails to be satisfied when we say Feynman is a famous physicist without attributing anything else to Feynman. In another way it may not be satisfied in the proper way even when it is satisfied: If we say Einstein was 'the man who discovered relativity theory', that does pick someone out uniquely; but it may not pick him out in such a way as to satisfy the noncircularity condition, because the theory of relativity may in turn be picked out as 'Einstein's theory'. So Thesis 2 seems to be false.

Let's go on to Thesis 3: If most of the ϕ's, suitably weighted, are satisfied by a unique object y, then y is the referent of the name for the speaker. Now, since we have already established that Thesis 2 is wrong, why should any of the rest work? The whole theory depended on always being able to specify unique conditions which are satisfied. But still we can look at the other theses. The picture associated with the theory is that only by giving some unique properties can you know who someone is and thus know what the reference of your name is. Well, I won't go into the question of knowing who someone is. It's really very puzzling. I think you do know who Cicero is if you just can answer that he's a famous Roman orator. Strangely enough, if you know that Einstein discovered the theory of relativity and nothing about that theory, you can both know who Einstein is, namely the discoverer of the theory of relativity, and who discovered the theory of relativity, namely Einstein, on the basis of this knowledge. This seems to be a blatant violation of some sort of noncircularity condition; but it is the way we talk. It therefore would seem that a picture which suggests this condition must be the wrong picture.

Suppose most of the ϕ's are in fact satisfied by a unique object. Is that object necessarily the referent of 'X'? Let's suppose someone says
that Gödel is the man who proved the incompleteness of arithmetic, and this man is suitably well educated and is even able to give an independent account of the incompleteness theorem. He doesn’t just say, ‘Well, that’s Gödel’s theorem’, or whatever. He actually states a certain theorem, which he attributes to Gödel as the discoverer. Is it the case, then, that if most of the φ’s are satisfied by a unique object y, then y is the referent of the name ‘X’ for A? Let’s take a simple case. In the case of Gödel that’s practically the only thing many people have heard about him — that he discovered the incompleteness of arithmetic. Does it follow that whoever discovered the incompleteness of arithmetic is the referent of ‘Gödel’?

Imagine the following blatantly fictional situation. (I hope Professor Gödel is not present.) Suppose that Gödel was not in fact the author of this theorem. A man named ‘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 it was thereafter attributed to Gödel. On the view in question, then, when our ordinary man uses the name ‘Gödel’, he really means to refer to Schmidt, because Schmidt is the unique person satisfying the description, ‘the man who discovered the incompleteness of arithmetic’. Of course you might try changing it to ‘the man who published the discovery of the incompleteness of arithmetic’. By changing the story a little further one can make even this formulation false. Anyway, most people might not even know whether the thing was published or got around by word of mouth. Let’s stick to ‘the man who discovered the incompleteness of arithmetic’. So, since the man who discovered the incompleteness of arithmetic is in fact Schmidt, we, when we talk about ‘Gödel’, are in fact always referring to Schmidt. But it seems to me that we are not. We simply are not. One reply, which I will discuss later, might be: You should say instead, ‘the man to whom the incompleteness of arithmetic is commonly attributed’, or something like that. Let’s see what we can do with that later.

But it may seem to many of you that this is a very odd example, or that such a situation occurs rarely. This also is a tribute to the education of philosophers. Very often we use a name on the basis of considerable misinformation. The case of mathematics used in the fictive example is a good case in point. What do we know about Peano? What many people in this room may ‘know’ about Peano is that he was the discoverer of certain axioms which characterize the sequence of natural numbers, the so-called ‘Peano axioms’. Probably some people can even state them. I have been told that these axioms were not first discovered by Peano but by Dedekind. Peano was of course not a dishonest man. I am told that his footnotes include a credit to Dedekind. Somehow the footnote has been ignored. So on the theory in question the term ‘Peano’, as we use it, really refers to — now that you’ve heard it you see that you were really all the time talking about — Dedekind. But you were not. Such illustrations could be multiplied indefinitely.

Even worse misconceptions, of course, occur to the layman. In a previous example I supposed people to identify Einstein by reference to his work on relativity. Actually, I often used to hear that Einstein’s most famous achievement was the invention of the atomic bomb. So when we refer to Einstein, we refer to the inventor of the atomic bomb. But this is not so. Columbus was the first man to realize that the earth was round. He was also the first European to land in the western hemisphere. Probably none of these things are true, and therefore, when people use the term ‘Columbus’ they really refer to some Greek if they use the roundness of the earth, or to some Norseman, perhaps, if they use the ‘discovery of America’. But they don’t. So it does not seem that if most of the φ’s are satisfied by a unique object y, then y is the referent of the name. This seems simply to be false.

Thesis 4: If the vote yields no unique object the name does not refer. Really this case has been covered before — has been covered in my previous examples. First, the vote may not yield a unique object, as in the case of Cicero or Feynman. Secondly, suppose it yields no object, that nothing satisfies most, or even any, substantial number of the φ’s. Does that mean the name doesn’t refer? No: in the same way that you may have false beliefs about a person which may actually be true of someone else, so you may have false beliefs which are true of absolutely no one. And these may constitute the totality of your beliefs. Suppose, to vary the example about Gödel, no one had discovered the incompleteness of arithmetic — perhaps the proof simply materialized by a random scattering of atoms on a piece of paper — the man Gödel being lucky enough to have been present when this improbable event occurred. Further, suppose arithmetic is in fact complete. One wouldn’t really expect a random scattering of atoms to produce a correct proof. A subtle error, unknown through the decades, has still been unnoticed — or perhaps not actually unnoticed, but the friends of Gödel. . . . So even if the conditions are not satisfied by a unique object the name may still refer. I gave you the case of Jonah last week. Biblical scholars, as I said, think that Jonah really existed. It isn’t because they think that someone ever was swallowed by a big fish or even went to Nineveh to preach. These conditions may be true of no one whatsoever and yet the name ‘Jonah’ really has a referent. In the case above of Einstein’s invention of the bomb, possibly no one really deserves to be called the ‘inventor’ of the device.

Thesis 5 says that the statement ‘If X exists, then X has most of the φ’s’, is a priori true for A. Notice that even in a case where 3 and 4 happen to be true, a typical speaker hardly knows a priori that they are, as required by the theory. I think that my belief about Gödel is in fact correct and that the ‘Schmidt’ story is just a fantasy. But the belief hardly constitutes a priori knowledge.
who is on the far end of this chain, who has heard about, say Richard Feynman, in the market place or elsewhere, may be referring to Richard Feynman even though he can't remember from whom he first heard of Feynman or from whom he ever heard of Feynman. He knows that Feynman is a famous physicist. A certain passage of communication reaching ultimately to the man himself does reach the speaker. He then is referring to Feynman even though he can't identify him uniquely. He doesn't know what a Feynman diagram is, he doesn't know what the Feynman theory of pair production and annihilation is. Not only that: he'd have trouble distinguishing between Gell-Mann and Feynman. So he doesn't have to know these things, but, instead, a chain of communication going back to Feynman himself has been established, by virtue of his membership in a community which passed the name on from link to link, not by a ceremony that he makes in private in his study: 'By “Feynman” I shall mean the man who did such and such and such and such'.

On our view, it is not how the speaker thinks he got the reference, but the actual chain of communication, which is relevant.

I think I said the other time that philosophical theories are in danger of being false, and so I wasn't going to present an alternative theory. Have I just done so? Well, in a way; but my characterization has been far less specific than a real set of necessary and sufficient conditions for reference would be. Obviously the name is passed on from link to link. But of course not every sort of causal chain reaching from me to a certain man will do for me to make a reference. There may be a causal chain from our use of the term 'Santa Claus' to a certain historical saint, but still the children, when they use this, by this time probably do not refer to that saint. So other conditions must be satisfied in order to make this into a really rigorous theory of reference. I don't know that I'm going to do this because, first, I'm sort of too lazy at the moment; secondly, rather than giving a set of necessary and sufficient conditions which will work for a term like reference, I want to present just a better picture than the picture presented by the received views.

Haven't I been very unfair to the description theory? Here I have stated it very precisely -- more precisely, perhaps, than it has been stated by any of its advocates. So then it's easy to refute. Maybe if I tried to state mine with sufficient precision in the form of six or seven or eight theses, it would also turn out that when you examine the theses one by one, they will all be false. That might even be so, but the difference is this. What I think the examples I've given show is not simply that there's some technical error here or some mistake there, but that the whole picture given by this theory of how reference is determined seems to be wrong from the fundamentals. It seems to be wrong to think that we give ourselves some properties which somehow qualitatively uniquely pick out an object and determine our reference in that manner. What I am trying to present is a better picture -- a picture which, if more details were to be filled in, might be refined so as to give more exact conditions for reference to take place.

One might never reach a set of necessary and sufficient conditions. I don't know, I'm always sympathetic to Bishop Butler's 'Everything is what it is and not another thing' -- in the nontrivial sense that philosophical analyses of some concept like reference, in completely different terms which make no mention of reference, are very apt to fail. Of course in any particular case when one is given an analysis one has to look at it and see whether it is true or false. One can't just cite this maxim to oneself and then turn the page. But more cautiously, I want to present a better picture without giving a set of necessary and sufficient conditions for reference. Such conditions would be very complicated, but what is true is that it's in virtue of our connection with other speakers in the community, going back to the referent himself, that we refer to a certain man.

There may be some cases where the description picture is true, where some man really gives a name by going into the privacy of his room and saying that the referent is to be the unique thing with certain identifying properties. 'Jack the Ripper' was a possible example which I gave. Another was 'Hesperus'. Yet another case which can be forced into this description is that of meeting someone and being told his name. Except for a belief in the description theory, in its importance in other cases, one probably wouldn't think that was a case of giving oneself a description, i.e., 'the guy I'm just meeting now'. But one can put it in these terms if one wishes, and if one has never heard the name in any other way. Of course, if you're introduced to a man and told, 'That's Einstein', you've heard of him before, it may be wrong, and so on. But maybe in some cases such a paradigm works -- especially for the man who first gives someone or something a name. Or he points to a star and says, 'That is to be Alpha Centauri'. So he can really make himself this ceremony: 'By "Alpha Centauri" I shall mean the star right over there with such and such coordinates'. But in general this picture fails. In general our reference depends not just on what we think ourselves, but on other people in the community, the history of how the name reached one, and things like that. It is by following such a history that one gets to the reference.

A rough statement of a theory might be the following: An initial 'baptism' takes place. Here the object may be named by ostension, or the reference of the name may be fixed by a description. When the name is 'passed from link to link', the receiver of the name must, I think, intend when he learns it to use it with the same reference as the man from whom he heard it. If I hear the name 'Napoleon' and decide it would be a nice name for my pet aardvark, I do not satisfy this condition. (Perhaps it is some such failure to
These philosophers, whose views are expounded in a vast literature, hold to a thesis called ‘the identity thesis’ with respect to some psychological concepts. They think, say, that pain is just a certain material state of the body, or what have you - say the stimulation of C-fibers. (It doesn’t matter what.) Some people have then objected, ‘Well, look, there’s perhaps a correlation between pain and these states of the body; but this must just be a contingent correlation between two different things, because it was an empirical discovery that this correlation ever held. Therefore, by “pain” we must mean something different from this state of the body or brain; and, therefore, they must be two different things.’

Then it’s said, ‘Ah, but you see, this is wrong! Everyone knows that there can be contingent identities.’ First, as in the bifocals and Postmaster General case, which I have mentioned before. Second, in the case, believed closer to the present paradigm, of theoretical identifications, such as light and a stream of photons, or water and a certain compound of hydrogen and oxygen. These are all contingent identities. They might have been false. It’s no surprise, therefore, that it can be true as a matter of contingent fact and not of any necessity that feeling pain, or seeing red, is just a certain state of the human body. Such psychophysical identifications can be contingent facts just as the other identities are contingent facts. And of course there are widespread motivations — ideological, or just not wanting to have the ‘nomological dangler’ of mysterious connections not accounted for by the laws of physics, one to one correlations between two different kinds of thing, material states, and things of an entirely different kind, which lead people to want to believe this thesis.

I guess the main thing I’ll talk about first is identity statements between names.

Let’s suppose we refer to the same heavenly body twice, as ‘Hesperus’ and ‘Phosphorus’. We say: Hesperus is that star over there in the evening; Phosphorus is that star over there in the morning. Actually, Hesperus is Phosphorus. Are there really circumstances under which Hesperus wouldn’t have been Phosphorus? Supposing that Hesperus is Phosphorus, let’s try to describe a possible situation in which it would not have been. Well, it’s easy. Someone goes by and he calls two different stars ‘Hesperus’ and ‘Phosphorus’. It may even be under the same conditions as prevailed when we introduced the names ‘Hesperus’ and ‘Phosphorus’. But are those circumstances in which Hesperus is not Phosphorus or would not have been Phosphorus? It seems to me that they are not.

Now, of course I’m committed to saying that they’re not, by saying that such terms as ‘Hesperus’ and ‘Phosphorus’, when used as names, are rigid designators. They refer in every possible world to the planet Venus. Therefore, in that possible world too, the planet Venus is the planet Venus and it doesn’t matter what any other person has said in this other possible world. How should we describe this situation? He can’t have pointed to Venus twice, and in the one case called it ‘Hesperus’ and in the other ‘Phosphorus’, as we did. If he did so, then ‘Hesperus is Phosphorus’ would have been true in that
situation too. He pointed maybe neither time to the planet Venus — at least one time he didn’t point to the planet Venus, let’s say when he pointed to the body he called ‘Phosphorus’. Then in that case we can certainly say that the name ‘Phosphorus’ might not have referred to Phosphorus. We can even say that in the very position when viewed in the morning that we found Phosphorus, it might have been the case that Phosphorus was not there — that something else was there, and that even, under certain circumstances it would have been called ‘Phosphorus’. But that still is not a case in which Phosphorus was not Hesperus. There might be a possible world in which, a possible counterfactual situation in which, ‘Hesperus’ and ‘Phosphorus’ weren’t names of the things they in fact are names of. Someone, if he did determine their reference by identifying descriptions, might even have used the very identifying descriptions we used. But still that’s not a case in which Hesperus wasn’t Phosphorus. For there couldn’t have been such a case, given that Hesperus is Phosphorus.

Now this seems very strange because in advance, we are inclined to say, the answer to the question whether Hesperus is Phosphorus might have turned out either way. So aren’t there really two possible worlds — one in which Hesperus was Phosphorus, the other in which Hesperus wasn’t Phosphorus — in advance of our discovering that these were the same? First, there’s one sense in which things might turn out either way, in which it’s clear that that doesn’t imply that the way it finally turns out isn’t necessary. For example, the four color theorem might turn out to be true and might turn out to be false. It might turn out either way. It still doesn’t mean that the way it turns out is not necessary. Obviously, the ‘might’ here is purely ‘epistemic’ — it merely expresses our present state of ignorance, or uncertainty.

But it seems that in the Hesperus-Phosphorus case, something even stronger is true. The evidence I have before I know that Hesperus is Phosphorus is that I see a certain star on a certain heavenly body in the evening and call it ‘Hesperus’, and in the morning and call it ‘Phosphorus’. I know these things. There certainly is a possible world in which a man should have seen a certain star at a certain position in the evening and called it ‘Hesperus’ and a certain star in the morning and called it ‘Phosphorus’; and should have concluded — should have found out by empirical investigation — that he names two different stars, or two different heavenly bodies. At least one of these stars or heavenly bodies was not Phosphorus, otherwise it couldn’t have come out that way. But that’s true. And so it’s true that given the evidence that someone has antecedent to his empirical investigation, he can be placed in a sense in exactly the same situation, that is a qualitatively identical epistemic situation, and call two heavenly bodies ‘Hesperus’ and ‘Phosphorus’, without their being identical. So in that sense we can say that it might have turned out either way. Not that it might have turned out either way as to Hesperus’s being Phosphorus. Though for all we knew in advance, Hesperus wasn’t Phosphorus, that couldn’t have turned out any other way, in a sense. But being put in a situation where we have exactly the same evidence, qualitatively speaking, it could have turned out that Hesperus was not Phosphorus; that is, in a counterfactual world in which ‘Hesperus’ and ‘Phosphorus’ were not used in the way that we use them, as names of this planet, but as names of some other objects, one could have had qualitatively identical evidence and concluded that ‘Hesperus’ and ‘Phosphorus’ named two different objects. But we, using the names as we do right now, can say in advance, that if Hesperus and Phosphorus are one and the same, then in no other possible world can they be different. We use ‘Hesperus’ as the name of a certain body and ‘Phosphorus’ as the name of a certain body. We use them as names of those bodies in all possible worlds. If, in fact, they are the same body, then in any other possible world we have to use them as a name of that object. And so in any other possible world it will be true that Hesperus is Phosphorus. So two things are true: first, that we do not know a priori that Hesperus is Phosphorus, and are in no position to find out the answer except empirically. Second, this is so because we could have evidence qualitatively indistinguishable from the evidence we have and determine the reference of the two names by the positions of two planets in the sky, without the planets being the same.

Of course, it is only a contingent truth (not true in every other possible world) that the star seen over there in the evening is the star seen over there in the morning, because there are possible worlds in which Phosphorus was not visible in the morning. But that contingent truth shouldn’t be identified with the statement that Hesperus is Phosphorus. It could only be so if you thought that it was a necessary truth that Hesperus is visible over there in the evening or that Phosphorus is visible over there in the morning. But neither of those are necessary truths even if that’s the way we pick out the planet. These are the contingent marks by which we identify a certain planet and give it a name.

Notes

1. In January of 1970, I gave three talks at Princeton University transcribed here. As the style of the transcript makes clear, I gave the talks without a written text, and, in fact, without notes. The present text is lightly edited from the verbatim transcript; an occasional passage has been added to expand the thought, an occasional sentence has been rewritten, but no attempt has been made to change the informal style of the original. Many of the footnotes have been added to the original, but a few were originally spoken asides in the talks themselves. I hope the reader will bear these facts in mind as he reads the text. Imagining it spoken, with proper pauses and emphases, may occasionally facilitate comprehension. I have agreed to publish the talks in this form with some reservations. The time allotted, and the informal style, necessitated a certain amount of compression of the argument, inability to treat certain objections, and the like. Especially in the concluding sections on scientific
identities and the mind-body problem thoroughness had to be sacrificed. Some topics essential to a full presentation of the viewpoint argued here, especially that of existence statements and empty names, had to be omitted altogether. Further, the informality of the presentation may well have engendered a sacrifice of clarity at certain points. All these defects were accepted in the interest of early publication. I hope that perhaps I will have the chance to do a more thorough job later. To repeat, I hope the reader will bear in mind that he is largely reading informal lectures, not only when he encounters repetitions or infelicities, but also when he encounters irreverence or corn.

3. Keith Donnellan, ‘Reference and Definite Descriptions’, *Philosophical Review* 75 (1966), pp. 281–304. See also Leonard Linsky, ‘Reference and Referents’, in *Philosophy and Ordinary Language* (ed. Caton), University of Illinois Press, Urbana, 1963. Donnellan’s distinction seems applicable to names as well as to descriptions. Two men glimpse someone at a distance and think they recognize him as Jones. ‘What is Jones doing?’ ‘Raking the leaves’. If the distant leaf-raker is actually Smith, then in some sense they are referring to Smith, even though they both use ‘Jones’ as a name of Jones. In the text, I speak of the ‘referent’ of a name to mean the thing named by the name — e.g., Jones, not Smith — even though a speaker may sometimes properly be said to use the name to refer to someone else. Perhaps it would have been less misleading to use a technical term, such as ‘denote’ rather than ‘refer’. My use of ‘refer’ is such as to satisfy the schema, ‘The referent of “X” is X’, where ‘X’ is replaceable by any name or description. I am tentatively inclined to believe, in opposition to Donnellan, that his remarks about reference have little to do with semantics or truth-conditions, though they may be relevant to a theory of speech-acts. Space limitations do not permit me to explain what I mean by this, much less defend the view, except for a brief remark: Call the referent of a name or description in my sense the ‘semantic referent’; for a name, this is the thing named, for a description, the thing uniquely satisfying the description.

Then the speaker may refer to something other than the semantic referent if he has appropriate false beliefs. I think this is what happens in the naming (Smith-Jones) cases and also in the Donnellan ‘champagne’ case; the one requires no theory that names are ambiguous, and the other requires no modification of Russell’s theory of descriptions.

4. Strictly speaking, of course, Russell says that the names don’t abbreviate descriptions and don’t have any sense; but then he also says that, just because the things that we call ‘names’ do abbreviate descriptions, they’re not really names. So, since ‘Walter Scott’, according to Russell, does abbreviate a description, ‘Walter Scott’ is not a name; and the only names that really exist in ordinary language are, perhaps, demonstratives such as ‘this’ or ‘that’, used on a particular occasion to refer to an object with which the speaker is acquainted. But Russell’s sense.

Though we won’t put things the way Russell does, we could describe Russell as saying that names, as they are ordinarily called, do have sense. They have sense in a strong way, namely, we should be able to give a definite description such that the referent of the name, by definition, is the object satisfying the description. Russell himself, since he eliminates descriptions from his primitive notation, seems to hold in ‘On Denoting’ that the notion of ‘sense’ is illusory. In reporting Russell’s views, we thus deviate from him in two respects. First, we stipulate that ‘names’ shall be names as ordinarily conceived, not Russell’s ‘logically proper names’; second, we regard descriptions, and their abbreviations, as having sense.

5. When I speak of the Frege-Russell view and its variants, I include only those versions which give a substantive theory of the reference of names. In particular, Quine’s proposal that in a ‘canonical notation’ a name such as ‘Socrates’ should be replaced by a description ‘the Socratizer’ (where ‘Socratizes’ is an invented predicate), and that the description should then be eliminated by Russell’s method, was not intended as a theory of reference for names but as a proposed reform of language with certain advantages. The problems discussed here will all apply, mutatis mutandis, to the reformed language; in particular, the question, ‘How is the reference of “Socrates” determined?’ yields to the question, ‘How is the extension of “Socratizes” determined?’ Of course I do not suggest that Quine has ever claimed the contrary.


9. Ziff’s most detailed statement of his version of the cluster-of-descriptions theory of the reference of names is in ‘About God’, reprinted in *Philosophical Turnings*, Cornell University Press, Ithaca, and Oxford University Press, London, 1966, pp. 94–96. A briefer statement is in his *Semantic Analysis*, Cornell University Press, Ithaca, 1960, pp. 102–05 (esp. pp. 103–04). The latter passage suggests that names of things with which we are acquainted should be treated somewhat differently (using ostension and baptism) from names of historical figures, where the reference is determined by a cluster of associated descriptions. On p. 93 of *Semantic Analysis* Ziff states that ‘simple generalization(s) about proper names’ are impossible; ‘one can only say what is so for the most part . . . .’ Nevertheless Ziff clearly states that a cluster-of-descriptions theory is a reasonable rough statement, at least for historical figures. For Ziff’s view that proper names ordinarily are not words of the language and ordinarily do not have meaning, see pp. 85–89 and 93–94 of *Semantic Analysis*.

10. Those determinists who deny the importance of the individual in history may well argue that had Moses never existed, someone else would have arisen to achieve all that he did. Their claim cannot be refuted by appealing to a correct philosophical theory of the meaning of ‘Moses exists’.

16. Of course I don’t imply that language contains a name for every object. Demonstratives can be used as rigid designators, and free variables can be used as rigid designators of unspecified objects. Of course when we specify a
counterfactual situation, we do not describe the whole possible world, but only the portion which interests us.

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33. An even better case of determining the reference of a name by description, as opposed to ostension, is the discovery of the planet Neptune. Neptune was hypothesized as the planet which caused such and such discrepancies in the orbits of certain other planets. If Leverrier indeed gave the name ‘Neptune’ to the planet before it was ever seen, then he fixed the reference of ‘Neptune’ by means of the description just mentioned. At that time he was unable to see the planet even through a telescope. At this stage, an a priori material equivalence held between the statements ‘Neptune exists’ and ‘some one planet perturbing the orbit of such and such other planets exists in such and such a position’, and also such statements as ‘if such and such perturbations are caused by a planet, they are caused by Neptune’ had the status of a priori truths. Nevertheless, they were not necessary truths, since ‘Neptune’ was introduced as a name rigidly designating a certain planet. Leverrier could well have believed that if Neptune had been knocked off its course one million years earlier, it would have caused no such perturbations and even that some other object might have caused the perturbations in its place.

34. Following Donnellan’s remarks on definite descriptions, we should add that in some cases, an object may be identified, and the reference of a name fixed, using a description which may turn out to be false of its object. The case where the reference of ‘Phosphorus’ is determined as the ‘morning star’, which later turns out not to be a star, is an obvious example. In such cases, the description which fixes the reference clearly is in no sense known a priori to hold of the object, though a more cautious substitute may be. If such a more cautious substitute is available, it is really the substitute which fixes the reference in the sense intended in the text.

35. Some of the theses are sloppily stated in respect of fussy matters like use of quotation marks and related details. (For example, Theses (5) and (6), as stated, presuppose that the speaker’s language is English.) Since the purport of the theses is clear, and they are false anyway, I have not bothered to set these things straight.

36. The cluster-of-descriptions theory of naming would make ‘Peano discovered the axioms for number theory’ express a trivial truth, not a misconception, and similarly for other misconceptions about the history of science. Some who have conceded such cases to me have argued that there are other uses of the same proper names satisfying the cluster theory. For example, it is argued, if we say, ‘Gödel proved the incompleteness of arithmetic,’ we are, of course, referring to Gödel, not to Schmidt. But, if we say, ‘Gödel relied on a diagonal argument in this step of the proof,’ don’t we here, perhaps, refer to whoever proved the theorem? Similarly, if someone asks, ‘What did Aristotle (or Shakespeare) have in mind here?’, isn’t he talking about the author of the passage in question, whoever he is? By analogy to Donnellan’s usage for descriptions, this might be called an ‘attributive’ use of proper names. If this is so, then assuming the Gödel-Schmidt story, the sentence ‘Gödel proved the incompleteness theorem’ is false, but ‘Gödel used a diagonal argument in the proof’ is (at least in some contexts) true, and the reference of the name ‘Gödel’ is ambiguous. Since some counterexamples remain, the cluster-of-descriptions theory would still, in general, be false, which was my main point in the text; but it would be applicable in a wider class of cases than I thought. I think, however, that no such ambiguity need be postulated. It is, perhaps, true that sometimes when someone uses the name ‘Gödel’, his main interest is in whoever proved the theorem, and perhaps, in some sense, he ‘refers’ to him. I do not think that this case is different from the case of Smith and Jones in n. 3. If I mistake Jones for Smith, I may refer (in an appropriate sense) to Jones when I say that Smith is raking the leaves; nevertheless I do not use ‘Smith’ ambiguously, as a name sometimes of Smith and sometimes of Jones, but univocally as a name of Smith. 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, even though there is no ambiguity in my use of the name. In both cases, I will withdraw my original statement, and my original use of the name, if apprised of the facts. Recall that, in these lectures, ‘referent’ is used in the technical sense of the thing named by a name (or uniquely satisfying a description), and there should be no confusion.
of the past who are long dead and with whom no living person is acquainted; and it is precisely these cases which, on our view, cannot be correctly explained by a description theory.

43. I can transmit the name of the aardvark to other people. For each of these people, as for me, there will be a certain sort of causal or historical connection between my use of the name and the Emperor of the French, but not one of the required type.

44. Once we realize that the description used to fix the reference of a name is not synonymous with it, then the description theory can be regarded as presupposing the notion of naming or reference. The requirement I made that the description used not itself involve the notion of reference in a circular way is something else and is crucial if the description theory is to have any value at all. The reason is that the description theorist supposes that each speaker essentially uses the description he gives in an initial act of naming to determine his reference. Clearly, if he introduces the name 'Cicero' by the determination, 'By "Cicero" I shall refer to the man I call "Cicero";' he has by this ceremony determined no reference at all.

Not all description theorists thought that they were eliminating the notion of reference altogether. Perhaps some realized that some notion of ostension, or primitive reference, is required to back it up. Certainly Russell did.

[ ... ]

48. There is a more elaborate discussion of this point in the third lecture, where its relation to a certain sort of counterpart theory is also mentioned.

Chapter 11

The Meaning of ‘Meaning’

H. Putnam

Language is the first broad area of human cognitive capacity for which we are beginning to obtain a description which is not exaggeratedly oversimplified. Thanks to the work of contemporary transformational linguists, a very subtle description of at least some human languages is in the process of being constructed. Some features of these languages appear to be universal. Where such features turn out to be ‘species-specific’ – not explicable on some general grounds of functional utility or simplicity that would apply to arbitrary systems that serve the functions of language – they may shed some light on the structure of mind. While it is extremely difficult to say to what extent the structure so illuminated will turn out to be a universal structure of language, as opposed to a universal structure of innate general learning strategies, the very fact that this discussion can take place is testimony to the richness and generality of the descriptive material that linguists are beginning to provide, and also testimony to the depth of the analysis, insofar as the features that appear to be candidates for ‘species-specific’ features of language are in no sense surface or phenomenological features of language, but lie at the level of deep structure.

The most serious drawback to all of this analysis, as far as a philosopher is concerned, is that it does not concern the meaning of words. Analysis of the deep structure of linguistic forms gives us an incomparably more powerful description of the syntax of natural languages than we have ever had before. But the dimension of language associated with the word ‘meaning’ is, in spite of the usual spate of heroic if misguided attempts, as much in the dark as it ever was.

In this essay, I want to explore why this should be so. In my opinion, the reason that so-called semantics is in so much worse condition than syntactic