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CHAPTER VIII

HOW A PRIORI KNOWLEDGE IS POSSIBLE

opposite would be self-contradictory; and secondly of the theory of knowledge. which is not purely 'analytic', i.e. such that the for having perceived that we have a priori knowledge undoubtedly deserves credit for two things: first, results were valid may well be doubted. But Kant results as to the nature of the world. Whether these such knowledge comes to be possible, and deduced that there is knowledge of various kinds, inquired how 'critical' philosophy, which, assuming as a datum contribution was the invention of what he called the of the modern philosophers. Though he lived for having made evident the philosophical importance from the answer to this inquiry, many metaphysical tion, he never interrupted his teaching of philosophy at through the Seven Years War and the French Revolu-Königsberg in East Prussia. His most distinctive IMMANUEL KANT is generally regarded as the greatest

Before the time of Kant, it was generally held that whatever knowledge was *a priori* must be 'analytic'. What this word means will be best illustrated by examples. If I say, 'A bald man is a man', 'A plane figure is a figure', 'A bad poet is a poet', I make a purely analytic judgement: the subject spoken about is given as having at least two properties, of which one is singled out to be asserted of it. Such propositions as the above are trivial, and would never be enunciated

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all judgements of which we could be certain a priori subject. Before the time of Kant it was thought that piece of sophistry. They are called 'analytic' because in real life except by an orator preparing the way for a the predicate is obtained by merely analysing the in a definite contradiction if we attempted to deny it was asserted. If this were so, we should be involved predicate which was only part of the subject of which were of this kind: that in all of them there was a same man, and would therefore contradict itself. anything that could be known a priori. 'A bald man sufficed to establish the truth of all a priori knowledge. at the same time have and not have a certain property, law of contradiction, which asserts that nothing can is not bald' would assert and deny baldness of the Thus according to the philosophers before Kant, the

correctly, as would now be generally admitted-that if only we had sufficient knowledge. Hume arguedthe effect could be logically deduced from the cause, covered that, in many cases which had previously usual view as to what makes knowledge a priori, disa priori about the connexion of cause and effect. Kant, more doubtful proposition that nothing could be known this could not be done. Hence he inferred the far Before Hume, rationalists at least had supposed that cause and effect, the connexion was really synthetic. been supposed analytic, and notably in the case of deavoured to find an answer to it. He perceived that was much perturbed by Hume's scepticism, and enwho had been educated in the rationalist tradition, not only the connexion of cause and effect, but all the Hume (1711-76), who preceded Kant, accepting the

propositions of arithmetic and geometry, are 'synthetic', i.e. not analytic: in all these propositions, no analysis of the subject will reveal the predicate. His stock instance was the proposition 7 + 5 = 12. He pointed out, quite truly, that 7 and 5 have to be put together to give 12: the idea of 12 is not *contained* in them, nor even in the idea of adding them together. Thus he was led to the conclusion that all pure mathematics, though *a priori*, is synthetic; and this conclusion raised a new problem of which he endeavoured to find the solution.

find some answer. The answer of the pure empiricists gain nothing by enumeration of other cases in which certainty by consideration of a single instance, and always make four', can obviously be known with proved by induction; secondly, that the general validity of the inductive principle itself cannot be to be inadequate, for two reasons: first, that the tion from particular instances, we have already seen that our mathematical knowledge is derived by inducevery philosophy which is not purely sceptical must possible?' is an interesting and difficult one, to which his philosophy, namely 'How is pure mathematics propositions of mathematics, such as 'two and two of the general propositions of mathematics (and the they have been found to be true. Thus our knowledge The question which Kant put at the beginning of

same applies to logic) must be accounted for otherwise than our (merely probable) knowledge of empirical generalizations such as 'all men are mortal'. The problem arises through the fact that such

The problem arises through the fact that such knowledge is general, whereas all experience is par-

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of Kant's system. of the problem, though not valid in my opinion, is experience is certainly surprising. Kant's solution of anticipating facts about things of which we have no ticular. even that will be thought misleading by many exponents can, therefore, only give the merest outline of it, and differently understood by different philosophers. We interesting. It is, however, very difficult, and is of them will make four of them. This apparent power the inhabitants of London a hundred years hence apply to such things. We do not know who will be cannot easily be doubted that logic and arithmetic will things of which we have as yet no experience; but it but we know that any two of them and any other two be able to know some truths in advance about particular It seems strange that we should apparently

ness, etc.—is due to the object, and that what we supply physical object respectively. He considers that the which he apportions the shares of ourselves and the object and ourselves. So far, we are in agreement with resulting from an interaction between the physical physical object is different from the associated sense-We saw, in discussing matter and sense-data, that the 'physical object'), the other due to our own nature due to the object (i.e. to what we have called the there are two elements to be distinguished, the one relations between sense-data which result from comis the arrangement in space and time, and all the crude material given in sensation-the colour, hard-Kant. But what is distinctive of Kant is the way in data, and that the sense-data are to be regarded as What Kant maintained was that in all our experience

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parison or from considering one as the cause of the other or in any other way. His chief reason in favour of this view is that we seem to have *a priori* knowledge as to space and time and causality and comparison, but not as to the actual crude material of sensation. We can be sure, he says, that anything we shall ever experience must show the characteristics affirmed of it in our *a priori* knowledge, because these characteristics are due to our own nature, and therefore nothing can ever come into our experience without acquiring these characteristics.

The physical object, which he calls the 'thing in itself',¹ he regards as essentially unknowable; what can be known is the object as we have it in experience, which he calls the 'phenomenon'. The phenomenon, being a joint product of us and the thing in itself, is sure to have those characteristics which are due to us, and is therefore sure to conform to our *a priori* knowledge. Hence this knowledge, though true of all actual and possible experience. Thus in spite of the existence of *a priori* knowledge, we cannot know anything about the thing in itself or about what is not an actual or possible object of experience. In this way he tries to reconcile and harmonize the contentions of the empiricists.

Apart from minor grounds on which Kant's philo-

¹ Kant's 'thing in itself' is identical *in definition* with the physical object, namely, it is the cause of sensations. In the properties deduced from the definition it is not identical, since Kant held (in spite of some inconsistency as regards cause) that we can know that hone of the categories are applicable to the 'thing in itself'.

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would so change as to make two and two become five which seems fatal to any attempt to deal with the sophy may be criticized, there is one main objection suffices for the substance of our argument characteristics of what is behind phenomena, and this that the time-order of phenomena is determined by phenomena, so that our real Self is not in time and that time itself is a form imposed by the subject upon bility, formally, is inconsistent with the Kantian view arithmetical propositions. It is true that this possiuniversality which he is anxious to vindicate for yet it is one which utterly destroys the certainty and This possibility seems never to have occurred to him, happen, if Kant is right, that to-morrow our nature be no certainty that it will remain constant. It might fact of the existing world as anything, and there can does not account for this. Our nature is as much a To say that logic and arithmetic are contributed by us problem of a priori knowledge by his method. The has no to-morrow. But he will still have to suppose facts must always conform to logic and arithmetic. thing to be accounted for is our certainty that the

Reflection, moreover, seems to make it clear that, if there is any truth in our arithmetical beliefs, they must apply to things equally whether we think of them or not. Two physical objects and two other physical objects must make four physical objects, even if physical objects cannot be experienced. To assert this is certainly within the scope of what we mean when we state that two and two are four. Its truth is just as indubitable as the truth of the assertion that two phenomena and two other phenomena make four

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phenomena. Thus Kant's solution unduly limits the scope of *a priori* propositions, in addition to failing in the attempt at explaining their certainty.

and so on. it is very common among philosophers to regard what my table is rectangular it cannot also be not rectangular if a tree is a beech it cannot also be not a beech; if intended to express the fact that nothing can at once the form 'Nothing can both be and not be', which is outer world. We noted in the preceding chapter the with the way we must think than with any fact of the is a priori as in some sense mental, as concerned rather have and not have a given quality. Thus, for example, that it is erroneous. Let us take as an illustration the natural one, but there are strong reasons for thinking The view which led to their being so named is a three principles commonly called 'laws of thought' law of contradiction. This is commonly stated in Apart from the special doctrines advocated by Kant,

Now what makes it natural to call this principle a law of *thought* is that it is by thought rather than by outward observation that we persuade ourselves of its necessary truth. When we have seen that a tree is a beech, we do not need to look again in order to ascertain whether it is also not a beech; thought alone makes us know that this is impossible. But the conclusion that the law of contradiction is a law of *thought* is nevertheless erroneous. What we believe, when we believe the law of contradiction, is not that the mind is so made that it must believe the law of contradiction. *This* belief is a subsequent result of psychological reflection, which presupposes the

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about thoughts. It is not, e.g., the belief that if we and not merely about thoughts; and although belief a beech. Thus the law of contradiction is about things, if the tree is a beech, it cannot at the same time be not time think that it is not a beech; it is the belief that law of contradiction is a belief about things, not only belief in the law of contradiction. The belief in the shows that the law is not a law of thought. law of contradiction from being false; and this were compelled to think it true would not save the not true of the things in the world, the fact that we believe when we believe the law of contradiction, were cerning the things in the world. If this, which we contradiction itself is not a thought, but a fact conin the law of contradiction is a thought, the law of think a certain tree is a beech, we cannot at the same

A similar argument applies to any other *a priori* judgement. When we judge that two and two are four, we are not making a judgement about our thoughts, but about all actual or possible couples. The fact that our minds are so constituted as to believe that two and two are four, though it is true, is emphatically not what we assert when we assert that two and two are four. And no fact about the constitution of our minds could make it *true* that two and two are four. Thus our *a priori* knowledge, if it is not erroneous, is not merely knowledge about the constitution of our minds, but is applicable to whatever the world may contain, both what is mental and what is non-mental. The fact seems to be that all our *a priori* knowledge

speaking, exist, either in the mental or in the physical

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stand, for, if we could not understand it, we could exists; but does 'in' exist? Yet obviously the word such entities as qualities and relations. Suppose, for the relations which it judges them to have. them together in one act of thought and thus produces not understand the sentence 'I am in my room', thing, although we cannot say that it exists in the same 'in' has a meaning; it denotes a relation which holds world. themselves have no relations, but that the mind brings that relations are the work of the mind, that things in Many philosophers, following Kant, have maintained sense in which I and my room exist. The relation 'in' between me and my room. This relation is someinstance, that I am in my room. I exist, and my room parts of speech which are not substantives; they are is something which we can think about and under-These entities are such as can be named by

similar to those which we urged before against Kant. relations, as we shall see more fully in the next chapter, and does not depend upon anything else. Thus the carwig nor any one else is aware of this truth; truth of the proposition 'I am in my room'. It may be questions with which we have been dealing. philosophy, and in particular to the problems of a physical. This world is of great importance must be placed in a world which is neither mental nor for this truth concerns only the earwig and the room, true that an earwig is in my room, even if neither I nor ceed to develop its nature and its bearing upon the priori knowledge. In the next chapter we shall pro-It seems plain that it is not thought which produces the This view, however, seems open to objections 5

CHAPTER IX

THE WORLD OF UNIVERSALS

Ar the end of the preceding chapter we saw that such entities as relations appear to have a being which is in some way different from that of physical objects, and also different from that of minds and from that of sense-data. In the present chapter we have to consider what is the nature of this kind of being, and also what objects there are that have this kind of being. We will begin with the latter question.

The problem with which we are now concerned is a very old one, since it was brought into philosophy by Plato. Plato's 'theory of Adeas' is an attempt to solve this very problem, and in my opinion it is one of the most successful attempts hitherto made. The theory to be advocated in what follows is largely Plato's, with merely such modifications as time has shown to be necessary.

The way the/problem arose for Plato was more or less as follows. Let us consider, say, such a notion as *justice*. If we ask ourselves what justice is, it is natural to proceed by considering this, that, and the other just act, with a view to discovering what they have in common. They must all, in some sense, partake of a common nature, which will be found in whatever is just and in nothing else. This common nature, in virtue of which they are all just, will be justice itself, the pure essence the admixture of which with facts of ordinary life produces the multiplicity

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