IS THERE A TRUE METAPHYSICS OF MATERIAL OBJECTS?

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ently worked out. More simply, I will argue that there is no fact of the matter and how our 'ordinary' views on these matters fit in-can (or can't) be coherwhat there is, how things change and trace through time (and possible worlds, showing how one or more scheme of description-one 'package' account of day, I think the best interpretation of these good works is as developing and what follows, I have no desire to disparage it. Nonetheless, at the end of the the past twenty or so years is full of creativity guided by the hand of rigor. In late this position will be considered in the final section of this paper. and the world is incapable of discriminating among them. How best to articuabout which package is true-each is metaphysically as good as the others, The work that has been done in the metaphysics of material objects over

questions raised by my proposal.2 these views as opposed to the others, although each provides an acceptable argue that there is nothing in the world that could make for the truth of one of ences between the views look more semantic than factual. In Section II, I will time (including property instantiations and causal relations). Thus, the differbut just provide different ways of describing the material contents of spacethe idea that these packages don't really make different claims about the world hope this rehearsal of views and packages will provide some intuitive force to acceptable package that meets standard objections and all clear requirements. ing what I mean by a 'package', and claiming that for each view, there is an way of describing the world. Finally, I will consider some objections to and In Section I, I will discuss the most prominent views in the area, illustrat-

I. The Views

1. Background

show that not all of our ordinary views about what there is, and how things Much recent work in this area has been guided by puzzles that aim to

> objects-pieces of yarn and wood, maybe aggregates of cells or quarkscombined with our views about how these things move through time, which are both ordinary objects-sweaters, trees and cows-and 'constituting' same parts). This principle conflicts with our everyday judgments that there time (some prefer: No two objects can wholly consist, at a time, of just the not be two material objects wholly located in the same place at the same One central such view I call 'The No Coincidence Thesis' (NC): There can-Dion/Theon puzzle; he shows that this principle is inconsistent with our be-NC also plays a role in Van Inwagen's (1981) modern version of the ancient be identified, so we are committed to coinciding objects (Wiggins (1968)). by each can differ, an object and its 'constituting' object cannot, in general the constituting objects persist, and more generally, since the histories traced these sorts of things. Since the 'macro' objects can go from existence while more theoretically, underlie our views about the persistence conditions for persist through change, can be true together with strongly held theoretical views is to either avoid coincident entities, or explain how to make sense of its ported ability to provide solutions.3 So, one desideratum for an acceptable theory these puzzles somehow, and many, if not most, are motivated by their purtheories of the nature of material objects and/or change at least try to handle count as objects, but don't seem to have just come into existence. All recent ted to it in our judgments of persistence when things break-the broken bits as the fact that many find it very intuitive, and commonsense seems committheir parts persist arranged in just the same way). Whether the Doctrine of lose parts (plus an intuitive judgment that undetached parts persist if all lief in arbitrary undetached parts, combined with the view that objects can Arbitrary Undetached Parts is one of our 'ordinary views' isn't as important

not when a trailer is?4 ties change. Or why does a car become larger when bumpers are attached, but catches cold? In each case, it seems that something persists, but some properthing ceases to exist when a cow dies, but not when a hoof is clipped, or it is between small particles making up cows. What of our judgment that sometiate such a distinction, especially when science reveals how much space there whether there is any difference here which can, in an appropriate way, substanbut that no object is constituted by this paper and my eye. But one may wonder For instance, we commonly think cells arranged in certain ways constitute cows change—what changes are 'substantial', and how things move through time which do not, contain objects, and in judgments about how things persist through pearance, can show up in judgments about which portions of the world do, and views is a proscription against arbitrary distinctions. Arbitrariness, or its ap-Another theoretical idea often invoked in criticism of ordinary (and other)

theory—so, conversely, a positive desideratum for a theory is to avoid arbitrarior absence, of obvious answers is often presented as grounds for rejecting a The point is not that these questions have no answers, but that the failure.

ness, and to have explanations for those distinctions that might be challenged being so.

of wood, nor between parts an object can and can't lose. But this, of course, in parts, so we needn't distinguish the persistence conditions for trees and bits up rejecting or revising some, or many, of our ordinary views about what there standardly offered as an objection, and all sides agree that the Mereological runs quite against the bulk of our ordinary reidentifications of objects. This is desiderata by denying that anything ever genuinely persists through any change is and how things persist-for instance, Mereological Essentialism meets both actually make them come out true. accommodate our ordinary views. One must at least rationalize them, if no Essentialist—and more generally, the critic of common sense—must somehow Now, as theories attempt to avoid arbitrariness and coincidence, they wind

clear enough that each view can make itself 'adequate' to the above requirewill often give a feel rather than track things down fully, but I hope to make it survey the major views currently taken seriously, and see how they can attempt siderata. With these puzzles, challenges and desiderata in view, we can now tinguish among the positions. ments, and I will then argue that beyond this, there are no truth-makers to disto motivate themselves and handle challenges. To keep things manageable, I herence. Correspondingly, the correlative types of consistency are positive dethough there could be others. And a theory should avoid simple internal incoretical judgments/principles, most notably NC and No Arbitrary Distinctions judgments/intuitions, about what there is and how things persist, and (2) theo-Thus, an acceptable theory needs to avoid inconsistency with (1) ordinary

our desiderata. Each such idea, however, on its own, runs up against some of itive, or else is intuitive or promising in light of the puzzles and one or more of idea to somehow accommodate the difficulties. these desiderata, and so a proponent needs to build on, or add to, the leading Typically, a view has a 'leading idea' which is either itself strongly intu-

a package view. siderata by 'making accommodations elsewhere in the system,' thus generating kind).5 In each case, to use Quine's figure, the leading idea can meet our deproposal that NC should really only be No Coincidence of objects of the same stood, the principle does not conflict with the main idea (for instance, Wiggins) challenging the principle (this is done, for instance, by those who appeal to phrase or redescription such that our ordinary judgments, so understood, can objects, which may lead us to overlook other sorts), and (b) a scheme of parasion (e.g. the universalist may say we have practical reason to 'privilege' certain nation of (a) ascription of mistake to us, with some explanation of our confu-'brute facts' to combat arbitrariness), or trying to show that properly underfeature of the world. Conflicts with our theoretical principles are met either by be allowed as either true, or at least 'appropriate' and tracking some genuine In general, conflicts with our ordinary views are handled by some combi-

objects can differ in sort. Whatever might make some tree sortally a tree—have ever, to many, this seems a misdiagnosis, for it is equally mysterious how such itive pull of NC really resides in the truth of this more restricted doctrine. Howtwo objects of the same sort can coincide—implicitly suggesting that the intuof being wholly constituted by it, and (c) we can still accept the claim that no tinguished by sort, (b) we can still say that the tree just is the wood—in the sense make this acceptable by suggesting that (a) the coincident entities can be disjudgments combine to commit us to coinciding entities, but he then attempts to here is given simply by our ordinary judgments about what there is, what there inal claim that there are, or could be, two objects.6 erties, are as problematic—and seemingly, for just the same reasons—as the origthe tree. So, appeals to difference in sort, or identity conditions, or modal propthe identity conditions for trees-will also be true of the wood co-located with isn't, and how things trace through time. In Wiggins (1968), he argues that these 'commonsense' or 'ordinary' view, as represented by Wiggins. The 'leading idea' A. 'Commonsense'/Coincidence. Let's begin with what I think of as the

nient; alternatively, one may suggest that while they are supervenient, we have allows two moves. One may simply deny that these properties are so supervederstood as roughly: to be clearer about supervenience. Usually, the supervenience of F on G is unposes that kind membership, and/or identity conditions, supervene on other, non-modal and 'less problematic' properties, and in a very particular way. This Now, the defender of coincidence may point out that this argument presup-

respect to F), (x)(y)(if x and y agree with respect to their G properties, they agree with

erties, they can't differ in sort or identity conditions. However, the core idea sense, the presence of an object of some particular sort, with these identity as there is a tree, the two situations don't differ by a 'brute fact', and in some tion needs to realize all the same non-actual properties the tree does. So long we've focused on two situations not differing: there is a tree in each. It is if you have, say, a tree in one case, you have one in the other. But here, exactly the same way, by the same processes, etc., in two situations, then ing to deny their 'brutality'-is roughly that, if matter gets arranged in behind the supervenience of identity conditions—the main idea behind want-Since the tree and wood don't differ in their non-modal, current actual propvenience really requires is that whenever these G properties co-occur, there is lematic properties. Along these lines, then, it may be urged that all superconditions, is not something 'above and beyond' the obtaining of the less probless clear that we want or need to insist that the wood in the same situathus implying that there can be no difference in F without a difference in G

Yes—revision is only partial

Theory Commonsense	'Leading Idea' Normal judgments of what there is, persistence are	Need to Deal With: Coincidence	Ways of Dealing Modified supervenience, brute fact
	correct	Arbitrariness (what there is/isn't, what changes are substantial)	Causal relations, brute facts
Persistence Views: Mereological Essentialism (ME)	Handles puzzles about change; 'An object is its	Ordinary views about change; possibly arbitrary?	Series, sets, paraphrase; temporal counterpart theory
Hyper-Essentialism 'Intrinsic' Essentialism	parts' Leibniz's law (LL); puzzles LL, but for 'real' properties; puzzles	Ordinary views, distinctions Ordinary views; explain intrinsic/extrinsic distinction	Same Same; intuitive, various options
Four-Dimensionalism	Time relevantly like space; Apparent coincidence is identity of parts (sometimes	Apparent ordinary views; Lumpl/Goliath; Spatiotem- poral essentialism	Paraphrase and bullet biting; Counterpart theory
Burke (Sortal Dominance)	LL; vagueness) Avoid coincidence by denying apparent persistence conditions of 'under object'—"when wood is a tree, it isn't 'just' wood"	When and why does G dominate F?	Various options ('F implies more properties')

		arbitrary parts actually saved?	res revision is only partial.
		Ordinary persistence judgments	Emphasize partiality of revision
Persistence Universalism	Arbitrariness of alteration/ corruption distinction	Ordinary distinctions; coincidence	Rediscribe/paraphrase; (triviality)
Ontological Views:			
Universalism (Ontological)	Arbitrariness of distinctions (but worries about Nihilism)	Ordinary distinctions; commitment to ME	Redescribe/paraphrase Same as ME
Nihilism	Distinctions arbitrary, suspi- cion of modality/identity conditions/boundaries	Ordinary claims; no values of variables for redescription	Paraphrase; blame the medium
'Just Simples'	Complexity root of all prob- lems	Arbitrariness; ordinary claims	Deny arbitrariness; para- phrase
Van Inwagen (There are simples and living organisms)	Cogito commits us to humans, non-arbitrariness to other living things; nothing	Ordinary commitment to artifacts, the inanimate and arbitrary parts.	Paraphrase
	comes to be when sand forts made; no coincidence	Arbitrary to allow organisms?	Deny arbitrariness?
		Commitment to simples?	Bite or deny commitment

Are 'under objects' and

does say something. conditions, for the 'brute fact' that despite both realizing the same G properthe wood instantiates those conditions). But there is no incoherence here, and it ties, the tree, but not the wood instantiates these identity conditions (while only 'brute fact' that something is sortally an F, or has such-and-such persistence Wiggins. Of course, it does not make things utterly unmysterious—it trades the tion; either way, it goes some way towards meeting the counterargument against pervenience, or its denial and replacement by an alternate 'determination' rela-It doesn't much matter whether this is viewed as a reinterpretation of su-

at least, addresses the objection. story within which its leading idea fits, and which, to the satisfaction of some matters is that the commonsense view has a reply, by offering a total, coherent committed to our other views that lead to coincidence, and so who think one merely needs to show that the view is not incoherent. For our purposes, what ical ideas. But it will seem enough, I think, to those who are deeply enough I don't want to say that I am happy with this; it still violates deep theoret-

essentialisms-see note 10), four-dimensionalism, and Burke's sortal domiwholly located in the same place.) As far as 'leading ideas' go, the first sort of may not seem best captured by (b), claiming instead that the objects are not objects does not exist, or (b) they are identical. (Though four-dimensionalism that in all cases where coincidence threatens, either (a) one (or both) of the what there is, or how things persist. To avoid coincidence, one must make out coincidence. Consequently, they need to deny one or another ordinary view about persistence. But each starts with one sort of idea. Ontological Universalism may need to embrace a strong essentialist view about needing to make changes of the other kind as well-four-dimensionalism and nance view). Of course, on investigation, views of either sort may wind up dence, in these cases (here, I put Mereological Essentialism (and other 'strong persist, since these are what seem to preclude identity, and so, force coinciwhile the latter may be thought of as revising some view about how things there is (here I place Van Inwagen, Ontological Universalism and Nihilism). approaches may be thought of as 'ontological'—revising some view about what the strong essentialisms may delete ordinary objects from their ontology, and The other approaches, except for Persistence Universalism, try to avoid

a leg. Strictly, by only providing a necessary condition for persistence, coinciological Essentialism (ME).8 This is the view that an object cannot gain or lose sistence' sort that is always around, though rarely explicitly endorsed, is Merechanges they can undergo or what rearrangements of smaller parts, if any, they dence may still be possible-x and y might differ over what non-mereological than its constituting wood can, nor can a statue or organism survive the loss of the puzzles of coincidence—a tree cannot survive the loss of a branch any more parts.9 ME rejects the ordinary judgments about persistence that give rise to can tolerate (like a sweater and a piece of yarn). Thus, most friends of ME . Views about Persistence. One view of the 'change our views about per-

> related—this, I think, is Chisholm's view). ME also avoids Sorites puzzles, and some further necessary condition (such as that the parts remain appropriately either embrace persistence of parts as a sufficient condition as well, or add how much mereological change an object can undergo.10 the arbitrariness that seems to infect any other theory's attempts to say just

(wholly) located in my yard. of persistence. On versions requiring some sort of continued 'unity' or arrangetimes is never what it seems—though the tree existed ten years ago, it was not be millions of years old, and imply that the locations of these things at other the survival of parts to alone suffice would have the tree, and everything else, there five minutes ago, much less two hundred years—and versions that take ment of parts, things that seem to persist do not-the tree in my yard was not for one main reason: It is incompatible with everyday and obvious judgments Despite these advantages, ME is, as I say, rarely championed, and this is

conditions, ME sees as the conditions guiding ordinary judgments or 'unifysuch accounts and simply reinterpret: what the opponent sees as persistence counts of how cars and cows 'genuinely' persist, ME can ride piggy-back upon course, variations upon this strategy.) Notice that insofar as others have acthat is because 'car' applies to series, rather than single, objects. (There are, of to numerically distinct objects; on the second, our judgments may be true, but each other in various ways, such as sharing parts and causal relations. On the it will go-our ordinary use of 'car', etc., traces series of objects, related to and try to explain why they seem wrong (as in Chisholm's echoing of Butler's first interpretation, our ordinary claims are all false, because we apply 'car C' interpretation of our ordinary judgments, and either way, it is pretty clear how logically incontinent objects. Either way, they need to give some reasonable is to deny the implications by denying the existence of the seemingly mereodistinction between 'strict and literal' and 'loose and popular' identity); the other may not be that important to do so.¹¹ One is to simply accept the implications. general sorts of moves in reply, though they aren't always distinguished and it Mereological Essentialists (and the others-note 10) may and do make two

of our ordinary judgments. and all needing—and able to use—some reconstruction strategy, to make sense possible views, all with something to recommend them and some champions. handy with the puzzles. If we cross the three sorts of strong essentialism with universal and more restrictive views about when one has an object, we get six that cars and cows exist.12 But it does square with all the hard facts, and it is our normal views, and that it 'strictly and literally' is tantamount to denying One may not like this—one may think it doesn't really square ME with

be arbitrarily divided into parts. Many people claim to find this intuitive, while dimension along which material objects extend, and along which an object may (sometimes called the Temporal Parts view). This view sees time as a fourth Another approach, in some ways like the above, is Four-Dimensionalism

a hand, so a tree and its wood may share a temporal part. In none of these dimensional object. 13 to arbitrarily select as demarcating the coming or ceasing to exist of a threeboundaries for each vague possible boundary a three-dimensionalist might try ject, and so can say that there is a single four-dimensional object with precise also tend to be Universalists about when temporal parts compose a single obobjects can really persist through change: Four-dimensionalists explain that diftivation and support, as our strong Essentialists do, through worries about how that place and time-but only partly. Some Four-dimensionalists also claim mopart of both (and more) objects. Consequently, each object is partly located at time: what is wholly located, in the relevant spot, is just one thing, which is a cases are there actually two things wholly located in the same place at the same Just as two highways may share a common stretch, or Siamese twins may share cases of apparent coincidence as we treat cases of objects sharing spatial parts tended and divisible. Be that as it may, Four-Dimensionalism allows us to treat opponents think all that is intuitive is that the career of an object is so exferent temporal parts bear the contrary properties. And Four-dimensionalists

arbitrary undetached parts, and our ordinary ontology. But ordinary objects aren't claim superiority to competitors in handling coincidence, since it could also actly like it—would be a temporal part (in the case of longer existence). This is case of shorter existence), or of which it-or something for all the world exwould have coincided with another object which is a temporal part of it (in the not have existed any longer or shorter than it actually exists-for if it had, it poral, or maybe even a spatiotemporal, boundary essentialism: an object canis that on pain of coincidence, Four-Dimensionalism seems committed to a temways of avoiding it. A related problem, due to van Inwagen (1981, section VI). poral parts. But then, coincidence is not entirely avoided, or else there are other the objects are only partly co-located, because neither object has any other temmost famously, Allan Gibbard's "Lumpl/Goliath" case. Here, one cannot say ent coincidence are not restricted to cases where the objects differ historicallyare, though, a couple of more serious problems. One is that examples of apparbearer of the properties, one may deny this or even challenge its sense. There charges that change requires the common subject to be the 'primary' or 'direct' of the same Four-Dimensional object, so there is a common subject. And if one But of course, the Four-Dimensionalist will reply that these are temporal parts on Four-Dimensionalism, one temporal part is F while a different one is not-F requires a common subject to be at one time F and at another time not-F, while is also claimed that Four-Dimensionalism is incompatible with change: change just part of a paper—I'm holding the whole thing! I find this hard to assess. It dinary views, that we are intuitively Three-Dimensionalists. I am not holding obviously saved—anyway, not intact—if their spatiotemporal boundaries are preserve our views about objects' ability to survive change, the existence of particularly important insofar as the Four-dimensionalist hopes—or hoped—to It is often claimed that Four-Dimensionalism goes strongly against our or-

> coincidence, the Four-dimensionalist must revise our ordinary modal views, or its entire career could not, the Colossus is not identical to it. Thus, to avoid ger than it did-so if the four-dimensional hunk of rock with which it shared so modally intractable. Surely, the Colossus at Rhodes might have lasted lon-

dure for different lengths of time. counterparts needn't be lump-counterparts, and vice-versa, and they might enis Goliath, and the Colossus is the four-dimensional lump, but that statuevant sense, to differ in their modal properties—so one could claim that Lumpl allows contingent identity statements, and for pairs of identicals, in the relethe lump counterpart relation in modal contexts; ditto for the Colossus. This terparts that are not statues, and the name 'Lumpl', but not 'Goliath', invokes have survived smooshing, or that the Colossus, but not the Four-dimensional sortally relative, it would not simply be true that Lumpl, but not Goliath, would Counterpart Theory for modal discourse.¹⁴ Since the Counterpart relation is dered as for ME, in paraphrases. Another option is to adopt a sortally-relative requires some accounting of our ordinary claims, and these are as easily renthere just aren't such (Heller (1990), especially Chapter Two). This, of course, with essential spatiotemporal boundaries, and since ordinary objects are not these, nor the Colossus at Rhodes: there are just Four-Dimensional hunks of matter ple, gives up ordinary objects—there is neither the statue nor the piece of clay amount of bullet-biting with some amount of paraphrasing. Heller, for examlump, might have lasted longer. Rather, Lumpl—and Goliath—have lump coun-The Four-Dimensionalist has various options here; most combine some

more simple denial and more ordinary paraphrase. quired by any of the other views, and at worst, there is always the retreat to the at least a paraphrase strategy, it doesn't seem obviously worse than that re-I shan't rehearse the familiar back-and-forth about Counterpart theory; as

claim that, as things of different sorts, they have different identity conditions. at t1 was just a piece of bronze, while that at t2 is a statue, is it so strange to it is not 'just' a piece of bronze: it is a statue—when asked 'what is it?', 'statue start with the idea that in one location, only one set of identity conditions can tence judgments of the constituting objects-the wood or yarn. After all, if we sistence of the 'superobject'—the tree or sweater—rather, he finds it in persismistake not—as in more obvious approaches—in our judgments about the perof coincidence. But in diagnosing apparent cases of coincidence, he sees the inance' view (Burke, 1994a and b). Burke, like the others, starts with a denial that when a piece of bronze (wood, yarn) is formed as a statue (tree, sweater), Burke notes to help this seem more palatable is the plausibility of the claim then so must the yarn, bronze or wood that is located there. An interesting point fident that the sweater, or statue, or tree, comes into existence at a certain time, be instantiated, why should the yarn win out over the sweater? If we are con-('tree', 'sweater') seems the right answer. Now, if the piece of bronze we had Perhaps the most creative 'persistence altering' view is Burke's 'Sortal Dom-

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and so cannot really be the same? The denial of this apparent identity is no more bizarre than the answer 'this is a statue' (tree, sweater). Similarly for arbitrary undetached parts—a 'torso'—the part of a body apart from its left foot—is 'just' a torso when it is a part, but when a body loses its foot, we have a torso which is an organism. Burke thus tries to hold onto our 'commonsense' ontology along with No Coincidence, by what can seem a relatively small change in some of our judgments of identity through time.

One question for Burke is: when and why does one sortal dominate another? There are various options; Burke suggests that one sortal dominates another when it 'implies more properties'—'tree', for instance, implies everything 'wood' does, plus further functional and formal features. As this stands though, it can only be clearly applied when one sortal implies another. 'Statue' doesn't imply anything about specific materials—so does 'statue' imply more properties than 'piece of clay' or 'bronze'? But there may be other options, and one might leave it intuitive—asked what this piece of clay is, 'Statue' is a better answer than 'piece of clay'. An account would be nice, but does the view reanswer that F implies more properties than G makes it determine the object's identity conditions—but at this level of analysis, it isn't clear any view can tell us why meeting its conditions makes for objecthood or persistence: the theory merely needs to get it right. 15

A potentially more damaging objection asks whether, given what Burke says about the persistence of torsos, lumps and pieces of yarn, he can really claim to have *saved* them, and especially, whether there is any motivation for saving them *in this way* which wouldn't be better served by just denying their existence, like Van Inwagen. After all, perhaps the main argument for believing in arbitrary undetached parts is that they can *become* detached, and when they do, it seems clear that they have not just came into existence. But according to Burke, a fair number of these parts *cannot* become detached: a torso that ceases to be attached to a foot ceases to be—it is replaced by another torso which is an organism. Worse, this 'new' torso is made of just the same matter arranged just the same way through a causally continuous path. Is denying that this suffices for torso—or lump, yarn or aggregate—identity compatible with acknowledging their existence at all (at least, short of hyper-essentialism)? A related objection asks whether, if a torso becomes detached from a foot, and the resulting torso is reattached, isn't the third torso identical to the first? ¹⁶

While this is serious, Burke may respond in various ways. First, he may emphasize that he only changes our views about persistence in certain cases—namely, when an object comes to satisfy another sortal. And this is rare. Relatively few of an object's arbitrary undetached parts can be an object of the higher sort. And of those that can, most never will become detached, so we needn't change our views about their persistence. Similarly for most lumps and aggregates. So this may stave off the charge of motivational incoherence. The problems of reidentification call for different treatment, but there are again var-

ious options. One can allow for gappy existence, or explain the *appearance* of identity in terms of the common components. Again, one may not like this, but we can *understand* it, and it can claim some amount of independent motivation from our ordinary answers to Aristotelian 'What is it?' questions.

novel account of its acceptability.²¹ for not being arbitrary. So, while coincidence is not avoided, the view offers a is natural and straightforward, and may be urged as the price we have to pay not, but given this view, the denial of the supervenience of identity conditions the car has the persistence conditions it does, while the other objects there do coincidence follows trivially. There may remain the problem of explaining how there is no special problem saying why, for each one, it is instantiated, and object, every possible criterion of identity/method of tracing is instantiated because it makes coincidence so trivial. That is, since wherever you have an other hand, the extent of coincidence, I think, makes this an interesting view, co-located at any place and time—not just the usually problematic two. On the if the car is not identical to the (t2) paint chip (say), there is some object wholly serious problem—the view is committed to massive coincidence of objects. Even would be (is) present there.20 This, though, does bring out another seemingly located where the car is, which is so identical. So we have vastly many objects ble future location—not that there is no object which is both present here, and particular object—like this car, or Tony—would be present in a certain possiand that when we appear to make a denial, we are only denying that some might maintain that commonsense doesn't so much deny them as ignore them, agrees with commonsense where commonsense finds identities). However, one allowing identities and persistence where commonsense denies them (that is, it view. 19 The view certainly appears to conflict with commonsense—but only in four-dimensionalism. 18 This, presumably, would be the chief motivation for the trariness of more restrictive views about persistence, as do liberal versions of conditions of persistence for some object. In this, it claims to avoid the arbipossible candidates for persistence conditions are acknowledged to be the tended object, but the numerically same object. It is 'Universalism' in that all dimensional framework—what we have at t1 and t2 are not parts of an exthat path traces. 17 This is rather like liberal four-dimensionalism, but in a threefor any materially occupied path through time, there is an object whose career but worth mentioning may be called 'Persistence Universalism'. On this view One last view in this category that is, I think, never explicitly discussed

C. Ontological Views. Having spent this much time on the above views. I hope the basic picture of the sort of objections—particularly from commonsense—and the sorts of package-building replies that may be offered, is apparent enough that it can be easily applied to the remaining views. Thus, I shall be rather briefer with them, hitting only significant highlights.

There are two extreme views about what there is which are fairly familiar—Universalism and Nihilism. According to Universalism, wherever you have some matter, you have an object which that matter composes, while according to Ni-

to follow) to denying that there is something composed of my fish and my sense so much denies the bulk of scattered objects, as it ignores them. I haven't poorly on commonsense, but as suggested earlier, it isn't clear that commonnot only for commonsense, but for whatever distinctions other views which non-objects as distinctions between objects of different sorts, and will do so tions, the Universalist will just redescribe our distinction between objects and daughter's left pinky. At any rate, to the extent that we do make such distincfound many people deeply committed (prior to certain arguments like the one stance, if one attempts to redescribe what we ordinarily would describe as one edge without being committed to objects of some sort or another. For inclear that we can understand the distinctions it wants to and must acknowlwhich could potentially rule it out as a live option. For it is not completely actually threatened with incoherence in a way none of our other views are tinctions will not be between objects of different sorts, but non-objects of difplausibility that the view doesn't conflict with commonsense, and (b) the dissame sorts of redescriptions, except (a) it will not be able to claim with any fall between Universalism and Nihilism have to offer. Nihilism will offer the committed to denying that these portions are literally the same before and afbut what about these portions? How are they not objects? The Nihilist seems stroyed by pulverization, the nihilist will want to talk about car-shaped porcar surviving being painted, and to distinguish this from, say, a car being deferent sorts-different distributions of matter and properties. Nihilism here is to have a theory about the real world at all-or anyway, one compatible with ical or hyperessentialist, who doesn't deny objects, but only their persistence. to find so problematic; but if he does so deny, he looks just like a mereologter the changes: otherwise, we would have the sort of persistence he purports tions of matter, at different times, and causal relations and properties thereof-And if he offers no paraphrase, one may wonder whether he can truly claim the 'palpable phenomena' Universalism here—like Persistence Universalism—may seem to score

I don't think the Nihilist's position is really so hopeless; I have elsewhere (Sidelle (1998) section VI) suggested a number of options available to him, citing, in part, the 'feature-placing' language proposed by Hawthorne and Cortens (1995), and the idea that each apparent objectual expression in a paraphrase can be seen as just a place holder. If this is right, the Nihilist can continue to speak with the vulgar, and acknowledge all facts about the distribution of matter through space and time, while denying 'in his heart' that there really are objects.

The Universalist's further problem arises when he turns to persistence. Van Inwagen's (1981) argument against arbitrary undetached parts applies equally against Universalism (since Universalism entails the existence of arbitrary undetached parts): it seems to show that on pain of coincident entities—which Universalists by and large wish to avoid—the Universalist must adopt one of the strong essentialist views we've discussed, denying, at least, that objects can gain or lose parts. Otherwise, they would 'run into' the larger, or smaller, objects which also, according to the Universalist, exist. Van Inwagen, and others, take this as reason to reject Universalism—but the Universalist himself can make all the moves we earlier saw were available to the mereological and other strong essentialists. Van Cleve (1986), indeed, starts with Universalism in an argument for Mereological Essentialism, thus presenting the package as a whole.

Another option for the Universalist is to adopt a Burkeish, sortal dominance view of persistence. Such a package amplifies the questions already posed for Burke's view, since *whenever* a 'normal' object undergoes mereological change, some aggregate will cease to exist—i.e. the one that would otherwise be located where the object now is. But perhaps this is just a difference of degree, and isn't much more objectionable than what we've already seen.

Finally, between Universalism and Nihilism come more restrictive ontologies. Obviously, there are many options here. The most obvious ones—those close to commonsense—lead to coinciding entities unless they are combined with a revisionary view about persistence. Thus, these packages would be either like Wiggins', or one of those discussed in the above section on persistence. What this leaves among well-known and reasonably motivated views are those that allow one or more of: simples, masses (lumps) and organisms.

Views that allow simples differ, I think, from the rest we've been discussing insofar as it seems a genuine scientific question whether matter has smallest parts. That aside, it is plain what looks good about simples—not being complex, they seem to avoid troublesome puzzles. On the other hand, those concerned about arbitrariness—Universalists and Nihilists—may want to know what is so special about simples that allows them to have genuine persistence conditions of a sort nothing else in the world has. And what are they? Which properties of a simple can be lost, while the simple persists? Unless one property, or set of properties, can be singled out, there is a threat of coinciding entities here—the simple for which 'being a quark' (say)—and only that—is essential, and that for which having spin up is essential. And plainly, avoiding

appeals to causal powers—here, those most central to any particular simple. will think something counts as sufficiently non-arbitrary; one common answer anyone who thinks the truth is somewhere between Universalism and Nihilism coincidence must be done in a way that doesn't give us arbitrariness.²⁵ Of course,

cannot be combined with ordinary objects without encumbering coincidence some appeal to causal relations among parts can be expected, and if done well. way, unified, it will need to say what sort of unity is object-making; again, scattered, then mass theory is a Universalist view; if they must be, in some ples, it will be like other views which deny the existence of most commonversalists and Nihilists. Further, as Zimmermann (1995) has argued, mass theory from the metaphysical, object-making perspective—about causality?' from Unithis will resonate with some, while raising the question 'What's so specialvia some paraphrase strategy. The same goes for masses—if masses can be sense objects, and will presumably try to accommodate our ordinary judgments aggregates-otherwise, it will amount to Universalism. If it only allows sim-(again, short of a modified theory of persistence). In addition, a view will really be intermediate only if it does not allow

ally, rather more like aggregates. So there are no such other things. related sufficiently like the way those constituting organisms are. They are, re other hand, artifacts and other inanimate objects are not 'sufficiently like' livmyself but not other living organisms—thus, living organisms exist. On the ensures that at least one non-simple exists: me (van Inwagen has a different collection of simples is an object—this Universalism, besides being counterining organisms—or better, the simples 'arranged chairishly' and 'rockly' are not favored first complex object). But there is no non-arbitrary reason for allowing unacceptable. However, the Cogito-combined with obvious scientific factsjects sharing all their parts) or Mereological Essentialism, both of which are tuitive, generates either coinciding entities (van Inwagen's objection is to obwe can summarize it like this. Of course there are simples. However, not every There isn't a simple leading idea behind van Inwagen's position, but perhaps Universalist champion of which is van Inwagen, who also allows simples.²⁶ This brings us finally to organisms, the most visible non-ordinary, non-

establishes: why does thought have to have a subject? Why can't there just be course true that the matter underwriting the thought 'I think' has a certain bioplausible, is not supported by the Cogito, which is a synchronic matter. It is of occur? Nihilism aside, the move from the Cogito to the claim that I (or van some stuff arranged so that thought occurs there, just as conductivity may so from this starting point would restrict the ontology to thinking things, or conlogical arrangement—but it has lots of features. Another more restrictive move van Inwagen uses to argue that he is not an aggregate, while independently Inwagen, anyway) am (is) an organism has been questioned. Why isn't the subism is out. But of course, many have wondered about what the Cogito really ject of thought a certain aggregate? The appeal to identity through time, which If van Inwagen really has established that there are organisms, then Nihil-

> narrower intermediate proposals share interesting features as well. deny that his way of extending from himself is arbitrary. And he will be able to der the general rubric of 'arbitrariness'-and we can expect van Inwagen to scious things-after all, they have more in common, in arrangement of parts ferred candidates for object-constituting simples have. But both the broader and point to an interesting feature—constituting a life—that all and only his prethe existence of the first complex item. I suppose these questions all come unin common that has something to do with the purported need to acknowledge with van Inwagen, than non-thinking animate organisms, and in particular, more

a basis for a van Inwagenesque paraphrase to ride piggy-back upon. Thus, the candidates for logical truths answers they give to 'how is your favored ontology not arbitrary?' are hardly cases, it can hardly be denied that the ontologies are revisionary, and that the age of any of the views we've been discussing. On the other hand, in all these desideratum of 'accommodating ordinary views' can be made part of the packticular proposals can hardly deny that whatever their 'right' view is, it can supply phrases will be available. And as we noted earlier, those unhappy with his parrevision, and van Inwagen's work here makes it clear that acceptable paraparticularly worth noting because it provides resources for all of the revisionhandled, rationalized—not that they come out true. van Inwagen's work here is ary views we've been discussing. As we've seen, all the views require some And all that is really required is that our ordinary views be accommodated paraphrases can give us what is genuinely true in our ordinary, false assertions claims like 'There are three chairs in the room', 27—but even if this fails, his paraphrases, so that his view can truly be said to be compatible with ordinary is right to claim that our ordinary claims should be understood in terms of his poral statements. There has been a fair bit of discussion of whether van Inwagen ularly noteworthy, and praiseworthy, is van Inwagen's discussion of transtem-Inwagen would have it that I am sitting on simples arranged chairishly. Particchew from one's ontology. van Inwagen develops it mostly in connection with his rejection of artifacts: when, as we would say, I am sitting on a chair, van phrase ordinary claims without commitment to the objects one wishes to esany other 'revisionary' ontologist, has developed a proposal about how to para indeed, we've more or less presupposed it throughout. van Inwagen, more than his positive ones, and his response to them is especially important for us-Van Inwagen's negative views have probably attracted more attention than

II. (Contra Realism)

distribution of matter in space-time can be coherently described by them. This them (some charges of incomprehensibility notwithstanding), and crucially, any motivated, they have something to say to each desideratum, we can understand there is a minimum constraint they all meet. Their leading ideas are well-Now, I have to admit to being unhappy with many of the packages, but

extending and making coherent the combination of our ordinary judgments and in the world. They can only be understood as different ways of articulating each case, consist of at least some intelligent philosophers. What I submit is understood as a factual matter. ries plainly differ, I don't see how that with respect to which they differ can be don't see what in the world can make one true; or equivalently, while the theotheoretical ideas. But short of showing that really, all but one are incoherent, l matter as to which truly describes the material ontology and persistence of things that, among these packages—and perhaps others—there can be no fact of the is why each is defensible at least to the satisfaction of its proponents—who, in

cording to Mereological Essentialism, no dog has ever survived the loss of a of an object. What more can you want? and Nihilism, this cannot be the difference between the presence and absence things are needed for them to compose an object; according to Universalism tical, while according to van Inwagen and Nihilism, one or both don't exist tirely there, according to Burke and Mereological Essentialism, they are identail, while on most other views, this has happened plenty. According to van According to van Inwagen and commonsense, certain causal relations among the same space in my yard; according to four-dimensionalism, they aren't entence Universalism, the tree and its wood are two material objects, occupying been unraveled; on most other views, it did. According to Wiggins and Persis-Burke, this piece of yarn did not exist yesterday, when my sweater had not yet Inwagen, there really aren't cars; on most other views, there are. According to What can I mean in questioning whether these views differ factually? Ac-

course, insist that at most, one of each pair is true-but it is not hard, I think, sweater, Burke calls the coming to be of 'just' a piece of yarn. One may, of ject'. What Wiggins calls the persistence of a piece of yarn and destruction of a guish as 'a collection of objects,' Universalists call 'a spatially dispersed obwe call a car, van Inwagen calls some car-arranged simples. What we distinafter tail-amputation—or really not the same dog? make one of them true? What would it be for there really to be the same dog tiotemporal distribution of matter (properties and causal relations). What could to see them as just different descriptions of the same situation, the same spadescribes as one dog-shaped sum replacing another slightly larger one; what is clear why I am not moved. What we describe as a dog's losing its tail, ME But I hope, after our lengthy discussion of the views and their resources, it

cance? For example, some might say that the question: "What is it about the distinctions which are independently recognizable and of no further signifidifference between spatiotemporally continuous S-paths and other paths that it enough that we simply do, in fact, use words like 'object' and 'same' to mark properties and in certain causal relations, to which all parties are agreed? Or is extra facts, beyond the arrangements of matter in various ways, with certain these theories telling us? Are these 'facts of persistence' or 'objecthood', etc., One way to consider the matter is to ask: what story about the world are

> tions, and does so, roughly, via linguistic rules. views—our metaphysical vocabulary simply marks non-metaphysical distinct view, there is nothing 'metaphysical', so to speak, determining the truth of the simply be the distinction we mark with the expressions 'same/different object interpret the expression, given other things we want to hold on to.) On this version might hold that while not 'directly' what we mean, this is how we must ing different parts that which we mark by 'not the same thing'? (A sophisticated quire, or rule out, the claim that A is B. Is the difference between objects havrespect of part P—the question is whether the rules of English permit, or reupon stuff in English. We all acknowledge A at t1 and B at t2, differing in beyond what we all agree upon, but rather, the proper description of this agreed would make one of the views true is not the correct postulation of 'extra facts' (used transtemporally). Call this 'the semantic account'. On this approach, what urge the arbitrariness of our ordinary judgments—asks too much. That may makes only the first paths traced by single objects?"—a question some press to

are simply true, on the semantic approach. At best, one view might offer the it is not 'simply' false in virtue of meaning, and by the same token, that none and 'deep convictions'. The fact that each view is comprehendible shows that ular judgments and theoretical views, each with some important ties to our usage submit, none of the theories can claim victory over the others. Each package represents a total reconciliation of our otherwise inconsistent cluster of partic 'best' reconciliation. The semantic approach is easily comprehensible—but on such a view, I

a fact of the matter, it would be a matter of convention. think there is no fact of the matter. It is also why I think that even if there were I suppose it is clear that this is how I view things, and is, at bottom, why I

understand a more metaphysical interpretation". in principle be true on semantic grounds—but none of them is—and I don't matter as between our views. When I earlier said I didn't see how one of the is, I submit, the view of anyone who thinks there can be a genuine fact of the not made true by our rules of description, but instead, by 'the nature of things'. semantic fact that this constitutes A's non-identity to B. That you cannot have views could be true, that might be read as: "I see how one of the views might Call this, in contrast to the semantic approach, 'the metaphysical approach'. It two things in the same place at the same time would be another further fact, the difference in parts between A at t1 and B at t2, there is the further, nonfacts are what could make one of the theories true. For example, in addition to In contrast, one might think there are further facts, and that such further

ple, No Coincidence. Wiggins' and our ordinary descriptions here, if they were particular judgments, while overlooking our theoretical constraints—for examdifferent descriptions of the same facts. But perhaps I've focused too much on of descriptions offered in the second paragraph of this section as just offering criminating among the views comes from the intuitive force of seeing the pairs To some extent, the suspicion I've expressed about non-semantic facts dis-

sort, or persistence conditions, has force-but sufficient prior commitment to much factual content is there to NC? Is it more than a possible constraint upon Since this is not possible, some of our ordinary descriptions are false. But how cific, less theoretical, pairs of descriptions. I admit not liking coincidence, and dle on this, unless considered in terms of particular cases, and then we are back such objects! But-I hope I'm not alone here-I find it very hard to get a hanlocation. Still—isn't just one of these right? Either there can, or cannot be two tions, and more than one such arrangement can be instantiated at a particular is so-and-so arranged, there is an instantiation of such-and-such identity condiour persistence judgments will make it seem adequate to note that when matter descriptions? Admittedly, the question of how two such things could differ in true, would imply that there could be coincidence and complete sharing of parts contested theoretical constraints.) consistently with either acceptance or rejection. (Similar remarks apply to other as we go round and round about what other descriptions of cases we can give ence could be between coincidence being possible or not, I am at a loss, except preferring views that avoid it (all else equal). But pressed on what the differto our questions about whether there is a factual difference between more spe-

each case. But when one asks "But is there really an object that was in my yard often give different answers. And one can say of each view what it implies, in what is this the tree that was in my yard yesterday?" Of course, the views will "Was this tree in my yard yesterday?" and even questions like "In virtue of as only apparently factual. Within each view, one can answer questions like between internal and external questions, and his rejection of external questions Carnap might call them, 'linguistic frameworks'. to generate an answer at a level 'above' those given within each theory-or as (beyond repetition). "Really", and other such terms, just don't have the content both yesterday and today, with different parts?" no answer can be sensibly given My position here, I think, is an application of Carnap's (1950) distinction

situation, this simple answer is unsatisfactory. times, such answers are fine. But when faced with competing theories, each of not have any answers: if this is what persistence is, that is what it is. And somewill be hard to come by. One might object that these are questions which can sistence, or substantial change? These questions can have semantic answersset of questions: Why does the presence of a,b,c make for constitution, or perobject?" When we see the diversity of answers, we are moved to ask another of what is object Z still around?" or "Under what conditions do we have an which is understandable and can be used to coherently describe any possible 'that's what 'constitution' means'—but if we want metaphysical answers, these Put another way, each theory attempts to address questions like "In virtue

tually, seem even more mysterious than I hope it already seems. If we suppose the metaphysical option, and consequently, the view that the views differ facthe theories differ factually, and that the deep facts about objecthood and iden-Here's something of an argument, or at least, something which may make

> must be necessary—but on the 'factual difference' view, this is hard to sustain. tion of which depends upon this. So far, so good. But now let us ask: Can the description of these facts, and of the more manifest facts the correct descripmake sense of any of these views, so far as they are coherent, being the correct tity are what determine their truth-values, then it seems we should be able to truth here be contingent? Or must it be necessary? There is reason to think it

modal, and it is hard to interpret the modalities as anything other than the stroncan't here. And so on. This is as it should be. These views are all themselves contingent truth—those who think it impossible for two objects to coincide don't is true, it is necessarily true and if false, necessarily false. weakest possibilities, that is, count against the views.²⁸ So, if one of the views gest sorts of necessity and correspondingly weakest sorts of possibility. The loss of a part don't think they might have been able to, but it turns out they think this just happens to be true in our world—it is supposed to be the metaphysical truth about material objects. Those who think objects can't survive the Certainly, no advocate of any of the views proposes their view as just a

widest sense.²⁹ host of such laws being the 'real ones' governing motion and change. And this, of nature are something supra-Humean, we can equally make sense of any of a and transworld identity. Insofar as we can make sense of one 'package' of suactly co-located, they'd have (or might not) the same conditions of persistence necessary, or sufficient, for objecthood—or that when any A and B were exessarily false. The factual differences between the views would consist in the I think, makes it impossible to see any of them as actually necessary in the perfacts obtaining, we can make sense of any of them obtaining, just as, if laws between the views, we cannot think of one as necessarily true and the rest nec 'extra' truths that, say, such-and-such a relation between parts was (or wasn't But I suggest that insofar as we have any grasp at all on factual differences

described. The 'necessity' of water's being H₂O doesn't rule out the other cases really possible? Only one of these 'extra sets of facts' really can obtain? At this now I'm being told that of these supposedly factual differences, only one is true way things are and can be. But now we are piling mystery on mystery. I equal possibility in any but an epistemic sense. If, as a matter of fact, objectical, so we cannot take the equal conceivability of each view to establish their we might have thought of as non-water H₂O or non-H₂O water—it only keeps really always cover up some genuine possibility, but require it to be differently is further encouraged, I think, insofar as so-called 'metaphysical necessities' point, I have lost my frail grip on there being a factual difference between the had enough trouble understanding how there is any factual difference at allhood is the obtaining of such and such relations, or persistence is continuity of them from counting as non-water, or water, respectively. There is still a robust views, insofar as only one of these 'extras' is so much as possible. This feeling form, then all the other views just give necessarily false descriptions of the one Of course, one may object that the necessity here is metaphysical, not log-

sense, then, in which the possibilities—H₂O that behaves very unwaterly, and non-H₂O that is like water in all other relevant respects—are still acknowledged. As Kripke saw and insisted, handling these apparent possibilities is crucial for the plausibility of the corresponding necessity claim. But in the current case, what possibilities can be acknowledged for the other views? None—and I think this is indicative of the fact that the *only* handle we have on the supposed factual differences between the views is *given by the very descriptions themselves*. That is why no 'redescription' of the possibilities they postulate is left. I, of course, have no brief for metaphysical necessity in the first place, but even granting its sensibility in other cases, I contend we have no handle on factual differences between these views, *even if* we try to take the 'metaphysical' route seriously.

At this point, one might draw back and reconsider the possibility that the true view is only true contingently, just as the laws of nature, whatever they are, are true contingently—but I don't see that our handle on the differences between the views is anything like sufficient to undermine our conviction that whatever is true here—if anything at all—it is so as a matter of necessity.

III.

That ends my basic brief for taking the differences between these views to be non-factual, and so, along with no semantic resolution, for thinking there is no fact of the matter as to which view is correct. The views, instead, represent different coherent ways of describing the world in terms of objects at a time and across times, which take seriously our actual particular usage and general principles. I will conclude with a couple of questions that should be asked about this view.

One important question—or set of questions—is whether my supposed meta-perspective on these disputes is not in fact a commitment to some substantive position. For instance, the major ground for my position is that I cannot understand the 'superfacts' upon which differences between these views would have to depend. But is that not to say, then, that all the views are really false, except, perhaps, Nihilism?

I don't think so. The theories would be false if they were committed to such facts, but I do not see that they are. The theories themselves only make claims about objects, how they persist, and the like. The metaphysical interpretation of the theories, whereby comes the commitment to these superfacts, is no more a part of them than is Platonism in the practice of mathematics. No doubt, it may be accepted by many *advocates* of the theories, but that doesn't make them part of the theories themselves. And so, my position does not entail that the theories are all false—at least, not for this reason.³¹

But perhaps it is incompatible with *some* of the views. In particular, my argument, or 'intuition' if you prefer, might seem incompatible with the appeal

to brute facts I described some of the theories as having recourse to. I treated such appeals, in a way, as trump cards—something upon which one may look with disdain, but against which one is powerless to argue. But am I not really saying that I cannot understand such appeals? If so, I cannot really think it is okay for commonsense to claim it is a brute fact that the sweater is sortally a sweater, and not a piece of yarn, while the co-located piece of yarn is not, sortally, a sweater. Similarly, I cannot think challenges of arbitrariness can be met by brute appeals: these simply do, and those—apparently relevantly similar—do not, constitute an object, or a substantial change.³² Am I not committed to claiming that these claims really are not understandable, and so, it is a fact that they are false, and the metaphysical requirements of No Coincidence and No Arbitrariness are factual?

work,' is something of which we simply have no understanding (beyond the needed to metaphysically interpret a framework, for it to be 'the true framethey include appeals to brute facts-but that the sort of appeal to such facts able within a framework for describing the world in terms of objects, even it mark distinctions between concepts we apply. Thus, to be Carnapian about it, cally, there is no puzzle how apparently arbitrary distinctions may nonetheless something we can, I believe, understand. And certainly, interpreted semantia brute fact about the sweater. But so long as we are playing this game, this is conditions of a sweater, and not of a piece of yarn, can only be, in some sense. I'd like to say that certain positions-certain descriptions-may be acceptent identity conditions despite their common location, the having of the identity cussed earlier. If yarn is yarn, and a sweater is a sweater, and so have differneeded to hold onto the set of our ordinary judgments of persistence, as disical judgments, taken together, allow this sort of move-especially if it is certain fact has no further explanation. And I think our ordinary and theoretcern the interpretation of the view. Rather, it is, in effect, the assertion that a particular theories, on the other hand, the appeal to brute facts does not conthat is what I am suggesting—is, I think, neutral among the theories. Within essary conditions for objecthood, which are just never (and perhaps cannot everyone is accepting brute facts—even the nihilist must think there are necbe) met. So the sort of rejection of brute facts I am suggesting-insofar as the differences between the theories. Insofar as one is taking this seriously, contrast to the others, and doesn't think it is just the correct description in what accounts for certain distinctions. Insofar as one advances any view in English—as the semantic view would have it—one must be taking seriously facts. They all attempt to say what makes for objecthood, or persistence, or and that in which all the theories, interpreted metaphysically, postulate brute the sense in which the particular theories discussed may appeal to brute facts But, in accordance with my above remark, I think there is a difference in

Finally, there is a cluster of interrelated questions about the evaluation of the various theories. On the one hand, our view is partly motivated by the idea

claims of the theories do not contradict each other, or that when someone says accord with this. On the other hand, it seems very hard to maintain that the really contradict each other, and so, to a semantic interpretation which would contrary to my earlier claims that none of the theories is false? contradict each other, does this not mean that at least one of each pair is false not truly expressing a change in view. Further, if the theories and claims do the same thing'. This would then seem to push towards saying that they do not that in some way, the theories differ only verbally, and so, in some sense, 'say 'I used to think objects could survive changes in parts, but now I don't,' he is

of the theories-claims and paraphrases-which would have exactly the same the complete world. Further, there is a straightforward mapping between chunks paraphrases—which was true in the language of that theory, and made true by through space-time, each view could give a complete description-including be said to 'say the same thing' in that for any complete distribution of matter in my yard yesterday) did not contradict each other. The views, however, could ('objects can/can't lose parts') and particular (that is/isn't the tree that was was but a verbal dispute among the views, and the claims-both theoretical ject', 'same object', 'was located at L at t', and so on, so that in fact there in their own idiolects, with their theories providing varying definitions for 'obtruth-conditions. One obvious approach would claim that advocates of each theory speak

claims-so at the least, the claim that we are really all speaking different lan-Start by noting that we see ourselves as contradicting each other in these tional with the disputants in relevantly different contexts. But it is important to real disputes are not genuine, and the apparently contrary claims involve either guages is a revisionary one. Of course, that is hardly final-many seemingly just false (even if necessarily so). Further, we provide arguments for our views, can usually imagine oneself being persuaded, by argument, to adopt the condefense, and the proposed definitions must be defended as only implicit. And note that when it doesn't seem so, the claim of nonunivocality needs special the same words with different meanings, or words that are relativized or relathe moment, we find one side's claims more compelling. other relevant point is that many of us don't have fixed views-even when, as and typically feel compelled to respond to arguments against our views. Antrary view. That means the opposing claims don't seem self-contradictoryhere, the usual signs of 'implicit definition' seem lacking. For example, one While this approach is elegant, I find it in important ways unsatisfactory

understood and taken up, and everyone so challenged can be expected to dejects. I say your objects are not schmobjects'. Insofar as the challenge can be may not-represent the important ontological category-let's talk about schmob can be expected to be unstable. Someone will always come along and say: 'Fine Your 'objects' can survive loss of parts. But then, 'object' for you does not-or fend their views about 'schmobjects' in just the way they had defended their A deeper point is that even if we attempt to stipulate meanings here, this

> had its meaning successfully stipulated. earlier discussion about objects-which it could not be, if 'objects' (etc.) had claims about objects, it is hard not to see the resulting discussion as simply the

different theories contradict each other. They cannot simultaneously be specieven in a speaker's own idiolect. But it is also true that in no acceptable specconcepts, they will always sensibly admit a variety of specifications, and this, I say, have any answers understood externally. But because of the role of these some question, e.g. "But are these really the values of first-order variables" or one tried to 'define' one of the views into analytic truth, there would remain variables. They are subjects of properties. They are that which persists, if anyterm as univocal. fications of a univocal term, 'object', and as I say, there is pressure to treat the loss of a part, and some things do-and this, I think, is the respect in which the ification can one simultaneously say, for example, nothing persists through the hope, that any of these specifications can be treated as the meaning of the term. think, is what keeps us from being able to say, with all the plausibility we could gued is correct, these questions don't have any answers—don't, as Carnap would "Does persistence really occur under these conditions?" Now, if what I've arit possible to sensibly disagree with other views, and also, to think that even if itself, neutral between the more substantive specifications which is what makes thing does. But this core meaning only provides necessary conditions. It is, of verbal disagreement. For example, objects are the suitable values of first-order that, I think, all parties agree to, and at that level, there is neither factual nor the formal or functional role each plays in our overall descriptions of the worldis some sort of core meaning to each of these terms—given, more or less, by tence, part, past and future predications—are so general and fundamental. There I think the reason for this is that the categories in question—object, persis-

ceptable specifications, insofar as they fit adequately with our ordinary and substantive portion of the view as given in the term's full meaning. But no one of one of the views being true, this can only be in virtue of treating the more of the opposition as about a common subject matter—namely, that determined their own senses of the key terms seems clear because there is agreement on cases of indeterminacy, where certain parameters of a term have been speciof his own idiolect. Thus, I think, on any acceptable understanding, my 'This them to be univocal: no one wants his use to be 'constrained' by the definitions cause while the assertions are each indeterminate, the common use suffices for can actually be seen as adopting such a meaning, and all of the views are acby the core meaning. Nonetheless, insofar as we are considering the possibility the core, formal meaning of the terms, and everyone can understand the views fied, but others are left open.33 The view that the positions don't each define views contradict each other? My inclination is to say 'Yes.' I think this is befact of the matter among them. But what about our initial question: Do the theoretical judgments: this is why, from the semantic perspective, there is no So tentatively, here's what I'd like to say. We should treat this as other

ulate indeterminacy is, unfortunately, something we cannot undertake here.34 tradictory, I suspect we can find a 'quasi-contradiction' relation which answers powerful reasons for denying that indeterminate claims can be genuinely conday' cannot both be true together. Thus, they contradict each other. If there are dog was in my yard yesterday' and your 'This dog was not in my yard yesterto our purposes. But a full discussion of the best way to think about and artic-

Notes

- 1. Let me enter one caveat at the start, which I will ignore hereafter. I can understand while three-dimensionalism entails presentism (Merricks (1995)) (or simply allows both the following are true: (a) four-dimensionalism requires eternalism about time, there being a factual difference between three- and four-dimensional ontologies if does the four-dimensionalist require spatial continuity? Temporal continuity? Causal both doubtful, but here is not the place to discuss it. However, even if this is a eternalism and presentism (of a sort, say, that physics could bear upon). I find these presentism, and presentism is true) and (b) there is a factual difference between factual difference here would only mildly affect my claims. the same variety of views which I maintain cannot be discriminated among. So, a an appropriate full package as 'three-dimensionalism per se', and so, will allow for represents but one parameter of disagreement, needing as much filling out to make of the candidate views, on a par with, say, commonsense or reductionism, it really Goliath case? So, while four- dimensionalism is usually represented as simply one relations? How will he deal with apparent full-term coincidence, as in the Lumpl/ factual difference, there remains, within each camp, the full range of total packages—
- may be, the current controversy hasn't been much presented in this light, so I hope ing adjustments elsewhere in the system', and perhaps even Goodman's views about Quine's Ontological Relativity and his liberality about holding onto views by 'mak-My proposal may recall Carnap's ideas about frameworks and external questions Goggins (1999) and Yablo (1998)—so perhaps this is an idea whose time has come. there is value in this investigation even if it is not wholly original in conception (Since this was written, I have become aware of some efforts in this direction—see 'worlds'. Perhaps this will make it seem less plausible, or original; however that
- For a good selection and bibliography, see Rea (1997a).
- This last question was first asked, to my knowledge, by Eli Hirsch (1982), 86-90
- Wiggins (1968), 93.
- See Burke (1992).
- Rea suggests this move in (1997b). Zimmermann suggests it in passing in (1995),
- But see Chisholm (1973, 1976, Appendix B), and Van Cleve (1986).
- More carefully (and tediously): for any time at which the object exists, there is constituent parts, but without explicit commitment to simples. Those not worried actly those parts-this allows changes in more complex parts by rearrangement of some complete decomposition into parts such that the object has always had exultimate, simple parts about such commitment could just say that an object must always have the same

- 10. Some people also claim to find ME intuitively obvious (E.g. Chisholm (1976 coming to be the tallest person in the room due to the only taller person's leaving leading to advocate ME as such-one should instead forward one of these other though, contrary to Hyperessentialism, it permits 'Cambridge change', such as almost always advocated because it is thought to follow from Leibniz' law essentialism', holds that an object cannot persist through change period, and is of two more extreme essentialist positions. The first, sometimes called 'Hyper-Appendix B). I suspect that typically, those who find it so really find obvious one As both these views entail ME, it is 'obvious' if they are. But it would be mis-The second view only disallows change in intrinsic or 'genuine' properties, al-
- 11. See Chisholm's articles again
- 12. I argue this in Sidelle (1998), section III.
- Sider (1997) argues along these lines
- Van Inwagen suggests-but does not (to put things mildly) endorse-this, in
- 15. Rea (2000) offers similar and further criticisms in presenting his own sortal dominance view.
- 16. See Carter (1997).
- 17. We might distinguish a wholly universal view from ones requiring temporal, or spatiotemporal, continuity. The latter might be called 'Persistence permissivism'.
- 18. The 'permissive' versions (note 17) look less arbitrary than non-universalistic views motivation for their particular choice. but as they make distinctions the extreme universalist view does not, they need some
- 19. Unwin (1984) seems to offer a view of this sort.
- 20. I offer a similar defense of permissive views against our ordinary judgments in Sidelle (1992), especially section V.
- 21. Perhaps ultimately, the 'acceptability' of coincidence offered here doesn't differ from to all methods of tracing being instantiated. having actual properties p1...pn suffice to make Goliath a lump, if they are all Lumpl's theoretic' framework may make it seem less mysterious. The question 'Why doesn' properties, and Lumpl is a lump?' may have less bite if we are already committed that already offered to the commonsense view, but its being offered in a more 'set-
- 22. . Universalism is sometimes formulated as the view that whenever you have some that there are simples—doesn't seem something to saddle Universalists with at the could accept this as well, and the obvious claim which would distinguish themobjects, there is a further object they compose. As it stands, however, a Nihilist outset. Hence, the current formulation.
- 23. For further discussion, see Sidelle (1998). sec. V.
- 24. under Ontological views. The main grounds for preferring Nihilism to Persistence most straightforwardly presented as a view about what there is(n't), I include it about persistence conditions motivate its denial of objects. However, since it is Perhaps Nihilism is better contrasted with Persistence Universalism, since worries Universalism—which also avoids arbitrariness here—is the avoidance of coincidence
- 25. I raise this objection in my (1998), sec. V. 26. For his fullest presentation, see van Inwagen (1990b).
- See, for instance, Hawthorne and Michael (1996), and Rosenberg (1993).

- 28. Furthermore, insofar as these matters were thought to be contingent, how could anyone hope to tell which was the right view? The evidence would be just the same
- 29. In the case of laws, however, I think this is an unobjectionable result-laws of nain any possible world. ture, whether Humean or not, need not be really necessary in the widest sense. See Sidelle (forthcoming
- I argue for this in Sidelle (1989), chapter 3.
- Trenton Merricks, in comments on this paper, disagrees, maintaining that the metatheory of personal identity, if one thinks ultimately, this is grounded in the meancians. While I think this is false (does one retract acceptance, say, of a psychological physical interpretation is built into the views of (serious) practicing metaphysithen have to say the former is false, but that my discussion concerns the latter. from the theory-which does not, though perhaps is accompanied by it: I would if we distinguished the THEORY—which involves the metaphysical interpretation ings of the words 'person' and 'same'?), my points would not be materially affected
- See Markosian (1996).
- Here's an imperfect example-Dr. Seuss books often have a number of pictures of mind any particular name to go with any particular character, and suppose also that strange characters on a page, variously arranged, and a list of names in the text. either.) At any rate, I hope this illustrates how indeterminacy is not vagueness, and no 'obvious' mapping is clear (e.g. start at the left, move right and then down to the There may be more characters than names. Now, suppose the doctor didn't have in ously apply to this sort of indeterminacy. ing each of two mappings-neither of them at all 'natural', but then deciding against determinate to which. (It may help further to imagine Seuss at one point considerleft again, assigning names until they are gone). In some such cases, I think, the that the pressures there may be for epistemic accounts of vagueness don't obvi-'core' facts are that these names each apply to one of the characters, but it is not
- 34. Many thanks to audiences at Arizona State University's conference on Convention helpful comments, skepticism and encouragement. Special thanks to Ted Everett and Logic, and Syracuse University's Mighty Midwest Metaphysical Mayhem, for Martha Gibson, Trenton Merricks, Antonio Rauti and Dennis Stampe

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