Pyrrho Press Forthcoming Titles

Science and Religion (1997)

American Philosophers (1997)

Australian Philosophers

Edited by

Phil Dowe Moira Nicholls Leila Shotton

Pyrrho Press Hobart 1996

here now, he would have much to say in defence of his theory? I can only leave you to speculate on whether or not he would convince you.

4 Casting out Demons and Exorcising Zombies: Exposing Neocartesian Myths in Frank Jackson's Philosophy of Mind^{1,2}

Jay Garfield

For we could think, feel, will, and remember, and we could also "act" in every sense of that word, and yet none of this would have to "enter our consciousness" (as one says metaphorically). The whole of life would be possible without, as it were, seeing itself in a mirror. (Nietzsche, The Gay Science, 354)

ntroduction

but is still regarded by many with great suspicion. the last has been making steady progress into the mainstream, & Pettit, 1988).3 The former two represent revivals of positions commitment to anti-individualistic theories of mind (Jackson commitment to a sense-data theory of perception; and his espousal of unpopular theories, including his view that (at and for his revival of non-physicalist theories of mind. In fact, long thought to be dead and buried in the philosophy of mind; least some) mental facts and properties are non-physical; his Jackson is justly famous in contemporary philosophy for his is best known for his attack on the central tenets of that school Faculty of Social Science at the Australian National University years at Monash University and is now on the Research "Australian Materialism" of J.J.C. Smart (1959) and D.M. Armstrong (1968; 1980). Frank Jackson, who taught for many Australian philosophy of mind is best known for the so-called

turn to this more global assessment of Jackson's philosophy of explain and criticise each view independently, and only then thought, nor that they are linked thereby. I will therefore first view of mind is implicated in these two strands of Jackson's data, on the other hand, immediately. It is not obvious that this have access to ourselves and to these representations or sense cognitive intermediaries—representations, or sense data. We only mediated access to external phenomena through special plausible and deeply false. According to that vision, we have our collective self-image—a vision I find to be both immensely knowledge, and of self-knowledge that is deeply embedded in connected to each other, and reflect a vision of mind, of these two theoretical commitments because they are deeply areas is certainly his most influential. I also choose to focus on doctrines for which he is best known, and his work in these of mind and on his sense-data theory. These are the two In this essay I will focus on Jackson's anti-physicalist view

> emphasise that though my aim is critical, I have the greatest characteristic of the very best philosophical thinking and position in the debates with which Jackson engages, one is regarding the concepts under discussion. So, whatever one's in a conversation whose goal is, inter alia, increasing clarity philosophical progress, which always depends upon the errors in imprecise or obscure formulation. This impedes often- especially in cases where the position in question is position with sufficient clarity that one can see exactly what is virtues of Frank Jackson's writing is that he articulates importance to contemporary philosophy of mind. Cresswell respect for Jackson's work, and consider it to be of the first indebted to him for raising the level of discussion in a way intutively plausible- philosophers cover subtle and important wrong with it. In philosophy this is a great virtue indeed. For (1980) notes in a perfectly serious tone that among the great dialectical engagement of opposing positions with one another

1. The Knowledge Argument

The "knowledge argument" is among the most famous single arguments in the philosophy of mind literature of the last quarter-century. It is first articulated in Jackson (1982) and refined in response to a variety of cricticism (Churchland, 1985; Horgan, 1984; Levin, 1986; Lewis, 1983)⁴ in Jackson (1986). Here is the original formulation:

Mary is a brilliant scientist who is, for whatever reason, forced to investigate the world from a black and white room *via* a black and white television monitor. She specialises in the neurophysiology of vision and acquires, let us suppose, all the physical information there is to obtain about what goes on when we see ripe tomatoes, or the sky, and uses terms like 'red', 'blue' and so on. She discovers, for example, just which wave-length

how this produces via the central nervous system the contraction of the vocal chords and expulsion of air from the lungs that results in the uttering of the sentence 'The sky is blue.'...

What will happen when Mary is released from her black and white room or is given a colour television monitor? Will she *learn* anything or not? If seems just obvious that she will learn something about the world and our visual experience of it. But then it is inescapable that her previous knowledge was incomplete. But she had *all* the physical information. *Ergo*, there is more to have than that, and Physicalism is false (Jackson, 1982, p. 130).

The argument, when flensed, runs as follows:

- When Mary was still confined to her black and white room, she knew everything there was to know about the physical facts regarding perception.
- When Mary left the room and saw her first tomato, she learned someting new, viz, what it is like to see red.

So

 What it is like to see red is not a physical fact about perception.

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 Qualia (the felt character of perceptual states) are nonphysical, and the complete physical story about reality is not the complete story.

This argument is interesting in a number of respects. Let us enumerate seven possible replies, each of them a plausible refutation, before getting to the heart of the problem: One feature that has attracted considerable notice (Churchland,

conclusion about the nature of things—from epistemological premises—that is premises regarding the nature of our knowledge. That one should be able to get from such premises to such a conclusion is at least surprising. A second difficulty with the argument is that it does not rely on any precise specification of the difference between the physical and the non-physical of the kind one might expect to find in an argument to the effect that certain things are definitely non-physical.

Third, one might be suspicious of this argument because it at least appears to commit what philosophers call "the intentional fallacy." That is, it trades on descriptions that occur within the context of verbs like "knows." These verbs create contexts in which we use descriptions without being committed to the possibility of using them outside of those contexts. So, consider the following argument:

- John knew that Queen Elizabeth II just walked by.
- 2. Queen Elizabeth II is the richest woman in the world.

So.

John knew that the richest woman in the world just walked by.

Now, this argument is obviously invalid. John may have been under the common misapprehension that Jackie Onassis was the richest woman in the world. The problem with this argument is that it uses the expression "Queen Elizabeth II" both inside and outside the intentional context created by "knew." The knowledge argument also involves intentional contexts, and hence generates suspicions of invalidity on those

A fourth reply runs as follows: The knowledge argument assumes that in the black and white room Mary could really know all of the physical facts about perception and still not know what it is like to see red. But this just betrays a failure of our

conclusion is to beg the question (Churchland, 1985; Conee establish. So to even state the example in a way that entails the assume the very conclusion the argument is meant to assume that is not for the purposes of the argument is to because it is one of those physical facts. Maybe not, but to she knows what it is like to see red. Why? Well, perhaps perception. So, it could well be that in virtue of knowing them after all, knows all of the physical facts about the physiology of developed neuroscience of the kind known by Mary. Mary, of neuroscience, and our inability to imagine a more highly say, this merely reflects the poverty of our current knowledge like to see red, or what a pineapple tastes like. But, one might physiology textbooks and somehow coming to know what it is know about perception it is hard to imagine our studying current context. Now, to be sure, given what we currently ut the distance of the strength in the

Fifth, as a kind of mirror image to the last objection, one might concede that Mary could not, no matter how fine an education she receives in the black and white room, come to know what it is like to see red. Perhaps, one *does* need to see red in order to know what it is like to do so, just as our naive intuitions predict. But then why not say that it follows that-since *what it is like to see red* is a physical fact (or at least could be one)—Mary just *can't* learn all of the physical facts about perception in the black and white room (or at least perhaps can't)? To *assume* that she can—despite the impossibility of her argument purports to prove, *viz.*, that qualitative facts are non-physical.

Sixth, it has been suggested that Mary, upon exiting her academic prison, gains no new knowledge at all. She gains a new experience, all right: the experience of seeing red. But what it is like to see red is not an object of knowledge at all. It is only our untutored, rough and ready, folksy description of a brain state. And Mary, ex hypothesis, already knew all there

argument that asserts that Mary learned something new when she first saw red is simply false (Lewis, 1983).

Finally a related objection runs as follows: Indeed, Mary has not gained new knowledge when she leaves the room. She already knew all there was to know about the neurophysiology of perception, including what it feels like to see red. But she knew it under a different description a physiological description (just as our erstwhile friend John knew the Queen under her royal, but not under her financial description). But she does gain something new when she leaves the room, namely a set of abilities. These include the ability to describe the experience of seeing red from the first-person point of view, the ability to recognise red objects, etc. But none of these new abilities constitutes, according to proponents of this objection, new knowledge (Churchland, 1985; Dennett, 1991; Levin, 1986; Lewis, 1983).

Now, I think that there is something to be said for each of these objections. Perhaps Jackson can mount satisfactory replies to some of them. I doubt that all of them could be dismissed, and a few cut right to the centre of the argument. But I want to leave them aside for now and to concentrate on a different problem- one that I think reveals most clearly the fundamental error that motivate Jackson's and related views, and that reveals most starkly why it is an error.

The Zombie Problem

I will now develop the central argument of this essay, and what I think is the most decisive refutation of the knowledge argument. In order to articulate this argument, I must introduce the notion of a zombie. The original idea and the term derive from Haitian voodoo. But I make no claims to the authenticity of my version. A zombie as I will understand it is a human being who is just like you or me, but who lacks all qualitative states. To put it simply: While there is something that it is like to be you, or me, or Frank Jackson, or perhaps

that it (like me) has a rich inner life. But while I am correct in believe, including (reality to the contrary notwithstanding) everything that I say, and would believe everything that I beliefs. Indeed, by stipulation my zombie twin would say other respects. They act like us, talk like us, and share our this last belief and assertion, my zombie twin is wrong.⁷

sketch the zombie problem for the knowledge argument: With this sketch of zombie psychology in hand, we can

If Jackson is right, the complete physical story about us leaves out qualia.

(That, after all, is the conclusion of the knowledge

Ņ in all physical respects, but in which there are no logically possible that there is) a world exactly like ours the metaphysical sense of "could be"-that is, it is If that is true—that is, if the complete physical story leaves something out, it follows that there could be (in

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physical story leaves out. To differ in those respects would just be to lack qualia—to be a zombie. like me, but could differ from me in the respects that the possibility of zombieland is simply a way of restating Earth would be completely indistinguishable. Note that the is a zombie, even though to the untutored eye zombieland and Jackson's conclusion—that somebody could be physically just Call this world "zombieland," since in that world, everybody

qualititative states that we do (including beliefs) they behaviourally just like us, and have the same nonhave no inner life. But despite that fact, since they are have qualia, even though they don't have them. They These zombies believe and sincerely assert that they like us—believe and assert that they have qualitative

> these assertions, they are wrong. Undead wrong.

we are not zombies? This raises the crucial question: How do we know that

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taste chocolate, we must know that we have seen red or Mary (or we) are to know what it is like to see red or to tasted chocolate and have had the relevant qualia. knowledge argument is to be successful at all. For if Jackson must be able to answer this argument if the

9 We can only know that if we know that we are not zombies.

experiences, and hence cannot know what it is like to have had them.) (For if we are zombies, then we have never had these

sincerely believe that when they introspect they, too, when we introspect we find those qualia. For zombies zombies share that belief. Nor can we simply say that virtue of our belief that we have had qualia. For We cannot know that we are not zombies simply in tind qualia.8

œ If zombies are possible, we can't know that we aren't zombies!

entail that we can't know whether or not we are zombies, since all of our beliefs, including the belief (The mere possibility of the existence of zombies would zombies themselves (ourselves?).) that we are not zombies, would be shared by the

So,

impossible. This is logically equivalent to (8).

pur

 The knowledge argument only succeeds if Mary in fact learns something new when she emerges from the black and white room, and hence only if Mary knows that she is not a zombie.

(Note that if Mary were a zombie, she would gain no new knowledge. So if she does gain new knowledge, she must not be a zombie. And if that is to be knowledge, she must *know* that she is no zombie.)

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11. If we and Mary know that we are not zombies, and hence that zombies are impossible (otherwise we couldn't know that we are not zombies) then the complete physical story leaves nothing out.

This follows directly from (2)

So,

 If the knowledge argument shows anything then the complete physical story about the world leaves nothing out.

This is so because the knowledge argument only shows anything if Mary gains the requisite knowledge upon leaving the black and white room; but she only gains that knowledge if she also knows that she is not a zombie; she only knows that if zombies are impossible; and they are impossible if, and only if, the complete physical story leaves nothing out.

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 If Mary learns anything, then what it is like to see red, and qualia in general, are physical facts.

This is a long argument. If it is correct, it shows that the knowledge argument cannot succeed. (It also explains why many of the seven objections canvassed earlier also succeed, but that is a long story, and beyond the scope of this essay.) The main point is this: Either qualia are physical or they are not. If they are physical, the conclusion of the knowledge argument is wrong. But if they are not physical, we could never come to know anything about them, and hence the knowledge argument cannot establish either their existence or their status. Or to put this point another way: Either Mary learns something when she leaves the room or she doesn't. If she does, the facts she learns are physical. If she doesn't, there is no new knowledge to make the argument go.

3. What Does all this Zombie Talk Gain Us?

souls, a claim with which it might easily be confused. That is it is not tantamount to the claim that we have immaterial about persons. This is a dramatic, and not a trivial claim. Now story is not the complete story. There are non-physical facts First, there is the obvious conclusion: The complete physical matter for metaphysical, and perhaps scientific, investigation. non-physical facts in addition to all of the physical facts. What ontologically significant claim. It is a claim that there exist it is not a substantialist claim in any sense. Nonetheless, it is an important theses here, and each deserves a bit of emphasis nature of our knowledge demonstrates that. There are three to us than our physical being, and that an examination of the revelatory precisely because it suggests both that there is more The knowledge argument is important, persuasive and to physical facts remains unstated- but that at least becomes a the nature of those facts are, and how exactly they are related

Second, the argument suggests that we can establish the reality of this domain of non-physical facts by examining not that reality or those facts directly, but rather through reflection purely on the structure of our knowledge. That is also a

and this because of the ubiquity of intentional fallacies in this terrain. There may indeed be exceptions, and this might be a case in which this is possible. But as we have seen, there is at committed here. Whether or not that charge can be made to knowledge argument that in this case such prised argument that in this case such epistemological conclusion. 11

Third, and perhaps less obviously, this argument relies on alleged special features of self-knowledge. It would be impossible for Mary, according to the knowledge argument, to come to know what it is like to see red in virtue of someone else's coming to see red, and her learning about that person's experience. The alleged object of this new knowledge- the non-private fact, a fact available only to first-person introspective knowledge. 12

Now this third, least obvious feature is in fact the most important, and is the one that the zombie argument brings grounded into the light of day. For the putative difference objects and they don't. But the Zombie Argument, through consequent completeness of the physical story shows that there can't be any such things that we can have but zombies view that we have these private, which themselves are non-physical, but which somehow argument shows that there are no such story shows that there our knowledge of the physical which somehow argument shows that there are no such objects, and that knowledge can have no such structure. 13

This view about the nature of knowledge is very old and very deeply ingrained. It is introduced most explicitly and

arriculately by Descartes in the ramous piece of wax argument in the second *Meditation*. It is deeply bound up with what Sellars has called "The Myth of the Given," the idea that our knowledge is grounded on immediately given introspective knowledge from which we then extrapolate more dubious, mediated empirical knowledge of the external world. (Sellars, 1963a, §§45-50). The knowledge argument is *inter alia* an expression of this Cartesian form of the Myth of the Given, and our refutation of it is *inter alia* our liberation from the tyranny of that myth.¹⁴

For the Zombie argument shows that if there is anything about us that transcends the physical, we could never know it. This strikes at all three of the features of the knowledge argument just noted and does so in virtue of striking to the core of the Cartesian view of the immediacy of self-knowledge as contrasted with the mediate character of our knowledge of external phenomena. The zombie argument shows that there are no such immediate non-physical objects of inner awareness knowledge of which Mary is supposed to gain. It also shows that any reflection on our knowledge can only lead us to objects of knowledge that are in principle public in a special sense—objects that are in principle, even if not in fact, knowable to another.

We must also emphasise what the zombie argument does not show. It does not show that there are no qualia. In fact it assumes that there are qualia—that at least some mental states do have felt qualities. That is what it is to say that we are not zombies. Moreover, it does not purport to show that Mary had or even could have had red qualia in the black and white room, no matter how much she knew about the perception of red. It may well be—and this would be an empirical, not a conceptual matter—that the only way to have red qualia is actually to see red. So, since Mary saw no red in the black and white room, it would perhaps be impossible for her to have had red qualia in that room.

More importantly, the zombie argument does *not* show that Mary learned nothing new when she saw red. Before

when she left the room. About that, I agree with Jackson (and above, especially Lewis (1983)). In fact, anyone who reflects a exactly that there are qualia, that Mary didn't have them in the when she came out. Otherwise, she couldn't know that she is not a zombie.

phenomena. possibly only of our cognitive relation to the same old knowledge- but not necessarily of new facts or objects; perspectives. A change in perspective does constitute new rather one- with respect to whom he has two very different see her bank statement. There are not two Elizabeths about which he now knows- one regal and the other wealthy, but case of our friend who sees the Queen go by and later comes to perspective on those same facts. We might compare this to the leaving the room she comes to have a first-person experiential perception of red- from a third-person perspective, after before. Whereas once she knew those facts- the facts about the revealed, no new (non-physical) facts discovered. Rather, Mary gains a new perspective on the same facts she knew about acquires new knowledge- there is no new object of knowledge must accept that while Mary learns something new-while she argument, and the morals of that argument drawn above, we arguments? Precisely in this: If we accept the zombie other than on the soundness of particular philosophical argument? Where, that is, do I differ so sharply from Jackson, conclusion differ so dramatically from that of the knowledge So what does the zombie argument show, and how does its

In characterising the change in Mary's epistemic state this way, I am refusing to draw the metaphysical conclusions from her change in state that Jackson invites us to draw. So another moral of this argument is the re-emphasis of a warning we sounded at the outset: Beware of metaphysical conclusions

orawn from epistemological prefitises, we can describe the metaphysical facts in a perfectly ordinary way, consistent with the exotic epistemology, but without introducing any non-physical facts or entities.

4. A Very Brief History of Sense Data Theory

a starting point by all parties to the sense-data debates, past because they contrast. 17 details of sense-data debates and adjudicate between rival want to digress into a lengthy discussion of the historical and why we should posit them. On the other hand, I don't sense-data are, what they do psychologically and theoretically proponents often disagree among themselves about what opponents regarding whether there are indeed sense-data, but proponents of sense-data theories disagree with their and present. Alas, that is impossible. For not only do neutral definition of sense-data, commonly accepted as at least It would be nice to be able to begin this discussion with a Jackson's account- some because they are shared, and some the classical version can highlight several central features of debates about their existence, and in part because attention to because of its status as dominant in the most important be the most influential, classical version of sense-data, in part theories of their nature. So I will simply present what I take to

It is important to begin by noting that in this case—just as in the case of non-physical qualitative facts—we find Jackson swimming against a powerful prevailing current in contemporary philosophy of mind. Sense data theories had their heyday in the middle of this century, and by the mid-1960's were regarded as historical curiosities. Jackson's revival of a sense data theory in (1977) hence attracted a great deal of notice in part because of its clarity and acuity, but in part because of its startling anachronism.

Roughly speaking, sense data in the classical formulation of the theories are the immediate input to sensory consciousness. They are meant to be the first items registered

1963a, §§ 1-7). So, for instance, if I am now perceiving a cat, a really registering brown sense-data which serve as input to my visual system. They are what I immediatey perceive, and what inferred, or constructed, on the basis of these sense-data which serve as input to my I can know to be real. The cat is perceived only mediately-serve as the foundation of my knowledge of the cat. I might be deceived about the cat-it might not really exist. I might believe demon. But even the evil demon cannot deceive me regarding whether I perceive brown sense-data, since they are immediately known.

Now, even this rough, preliminary sketch raises a host of problems: Are these causal and epistemic demands on sense-data consistent with one another? Are sense data physical, psychological, or neither (or both)? Are physical objects known via sense-data or constructed out of sense data? Are we theoretical entities? And others besides. But let us leave at least that led philosophers to posit sense data in the first place. We classical sense data theory.

The first motivation for sense data theory is the epistemological position called "foundationalism" This is the plausible idea that empirical knowledge must have a foundation. If, the foundationalist argues, every item of them the whole edifice of our knowledge of the world is unsupported, and unjustified. In such a case s/he argues, we really know nothing at all, since to know something is, interfact as that there is a brown cat on the table it seems that the appropriate kind of foundation is my immediate knowledge of the nifer

these sense data to the existence of the cat (either by literally constructing the cat out of sense-data or by inferring the existence of the cat from the sense data as evidence, depending upon the version of the theory I prefer). Since our empirical knowledge rests upon our perception of material objects and their properties, and since we don't directly perceive these material objects and properties, the sense data theorist argues, that knowledge can't serve as an ultimate epistemic foundation. But sense data are known directly, not inferentially, and can serve as the basis of our knowledge of material objects and their properties. Since we do have such knowledge, it must have a foundation, and so there must be sense data. (Note another epistemological argument for an ontological conclusion.)

A second classical reason for positing sense data goes back to a model of perception due to Kant- that of perception as a synthesis of percepts on the basis of given raw material. In perceiving a material object, such as a cat, Kant and his followers argue, we don't find a cat literally given to our mind, somehow pushed through our eyeballs into our brain. Rather, some basic sensory information is given to our perceptual system, transmitted to our brain or mind (depending upon one's psychology and ontology) and there synthesised into the percept we recognse as a cat. But you can't synthesise a whole cat out of nothing. Synthesis presupposes raw material as input to the sensory systems. That raw material, the sense data theorist argues, is a manifold of sense-data.

A final important motivation for sense data theory (there were more, but this will be sufficient for present purposes) was the so-called "argument from illusion." Consider several pairs of perceptual situations: In one case I see an actual brown cat. In another I see an illusory brown cat as a consequence of optical illusion accomplished with holograms, mirrors or hypnosis. In another case I see a genuinely bent stick and then a straight stick made to look bent in virtue of being dipped in the water. Finally, imagine seeing a round coin seen on edge

data that are their common effects. awareness of their differences, but indirectly, through sense perceive them not directly, and hence not with a direct coin the same. That is why these things look the same—we dipped stick the same; by a round coin on edge and an oval a hypnotically presented cat are the same; by a bent stick and a the set of sense data. So the sense data caused by a real cat and awareness—the common core—the sense data theorist says, is core to veridical and illusory perception. That object of is invariant despite the variations in distal objects- a common of awareness distinct from the material objects in question that material objects that are the prima facie objects of perception are for the sameness in the cases then, we need to posit an object different in each situation, for each pair. If we want to account identical to the other in respect of sensory experience. But the of these pairs of cases is a pair of situations each of which is

Given these powerful reasons for believing that there must be sense data as the psychological foundation of perception and as the epistemic foundations of perceptual knowledge, why did they fall out of favour? There are at least four distinct considerations. Again, the arguments are too complex to do flavour. The first reason is that foundationalism itself fell out of favour. Arguments due to such philosophers as (Quine, 1951; 1960; Sellars, 1963a; 1963b) emphasise the seamlessness and mutually reinforcing character of knowledge, and that requires no justification. Even knowledge regarding sense etc that could only be acquired through a wide range of broader empirical knowledge (Sellars, 1963a, §§10-23).

A second reason for the demise of sense data theory was that philosophers began to have doubts about whether sense data were possible objects of knowledge at all. After all, we have some grip on what it is to know about physical things,

know what it is to know that a cat is brown, and that a cat is on the table. And we know how to acquire that knowledge. But it is far from clear just what the structure of our knowledge of our sense data is, or how that knowledge is acquired.

A third, and closely related problem raised for classical sense data theories concerns their inaccessibility to introspection. After all, one of the principal motivations for introducing sense data was their supposed immediacy as objects of knowledge, as opposed to the allegedly mediated character of our knowledge of ordinary physical objects. So it should turn out that when we introspect—drawing our attention to the immediate contents of consciousness as opposed to the external objects of perception—we should find these sense data present to the mind. But we don't. At least it is not clear that we do, and if the picture of the structure of our knowledge painted by the classical theory is anywhere near correct, we should.

Finally, ontological worries about the status and nature of sense data raise serious difficulties for any sense data theory. It is just not clear *what* sense data *are*, or *where* they are to be found. Are they properties of physical objects, to be found in space, or on the surfaces of things? Some theorists (Moore, 1953) argued that they are. But if so, it is not clear how they can serve their principal functions as immediate objects of perception and knowledge.

Are they then psychological objects to be found in the mind? That would give us the immediacy we want, but it would sever their connection to the objects about which they allegedly give us mediated knowledge. This would be particularly acute for those who would argue that physical objects are literally constructed out of sense data (Ayer, 1940), but would also be a problem for a more moderate sense data theorist for whom sense data merely function as evidence about physical objects (Broad, 1925; Price, 1932). For it seems that if they are purely mental, we would have no reason to

out how they could have all of the perceptual properties they are meant to have: Are thoughts red? Oval? On the table?

Or are sense data neither physical nor mental? Well, there freedom, or the number seventeen. But sense data are not perform any of their metaphysical or epistemological physical? None seems to be readily available.

For these and related reasons, sense data theory fell out of favour, and was replaced as the dominant view in epistemology by various naturalistic non-foundationalist constructivist representative theories of perception or background that we must understand Jackson's own version of sense data theory. As we shall see, it incorporates some features of the classical view, but is distinct from it in important respects as well.

5. Jackson's Revival of Sense Data19

Jackson devotes an entire closely argued book to the exposition and defense of sense data theory. It would be folly to claim to a complete exposition here. Rather, I will develop what I (following (Cresswell, 1980)) regard as Jackson's three central arguments for the existence of sense data and for their most salient features of sense data them explain the characterises them.

The first argument is the "Looks Argument." (Jackson, 1977, pp. 30-49, 109-111). Suppose that Frank is looking at a lovely ripe tomato in broad daylight. Macbeth, on the other hand, is in his castle late at night in Act II, famously hallucinating a bloody dagger ("Is this a dagger I see before

thee...") Now, consider the following pair of sentences:

- i) That tomato looks red to Frank.
- ii) That dagger looks red to Macbeth.
- .. The "looks" in these two sentences cannot be comparative. That is, they can't be analysed as "looks the way red things normally look to Frank/Macbeth.

(This could be so for a number of reasons. Suppose for instance that Frank is colourblind, and most red things look green to him. But this tomato is different, and for some reason, in this light, looks red. Macbeth may never look at daggers, or at red things. There may be no way they normally look to him.)

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 "Looks" in these two cases appears to denote a basic relation obtaining between Frank and something seen and Macbeth and something else seen. And it appears to denote the same relation in both cases.

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 That thing can't be a physical object, since in Macbeth's case there is no dagger, and we said that the relation is the same in both cases.

So,

 The thing to which they are each related that is responsible for the common core of their sensory experiences is a set of red sense data.

Note that this argument is closely related to the argument from illusion. But it is slightly different in its emphasis on our understanding of the word "looks." It also supposes that sense data are functioning as immediate objects of perception, but

to the second of Jackson's principal arguments, the "Many Properties Argument." (Jackson, 1977, pp.60-74) Consider the following pair of sentences:

- That tomato looks red and round to Frank
- iv) That dagger looks red and sharp to Macbeth
- The pairs of properties denoted in each of these two sentences must be properties of the same things. That is, the same thing must be both red and round in Franks's perceptual experience, and the same thing must be both red and sharp in Macbeth's.

But,

 These properties can't be in the objects, for again, Macbeth's perceptual experience relates him to no external object.

And,

 They can't be properties of sensations (or anything else mental). Because even if we thought that sensations (or other mental states) could be red, nobody would assert that there are round or sharp sensations or states of mind.

So,

 These must be properties of sense data. Since sense data are the only plausible perceptual object that could serve as the common locus of all of the properties of these percepts.

Note that in this argument Jackson is explicitly assigning sense data a non-physical, non-mental ontological status. This curious neither-fish-nor-fowl understanding of their mode of existence is unique to Jackson's formulation, and is his way of

theory by its horns. We now turn to the final of Jackson's three principal arguments, the "Colourlessness of the World" argument (Jackson, 1977, pp. 122-137). This argument has its roots in independent commitments in the philosophy of science, commitments we will simply note without comment, since to enter that terrain would involve a long digression.²⁰

- We believe that tomatoes, etc are coloured because of our experiences of them.
- The immediate causes of these experiences are events in our brains.

(That is, our experiences, whatever their distal causes may be [including tomatoes or actual daggers] are caused via a chain of events whose physical terminus is in our brain. Another way of making this point is that, in any particular case, even if the distal causal events had not happened, but the brain events had somehow occurred, we would have had the same phenomenal experiences.)

These brain events are the effects of the causal properties of the distal objects of perception.

(After all, since they are effects, they must have causes, and any property of an object that could be a cause must be a causal property.)

 An object's causal properties are those that the best science of the domain in which that object occurs tell us it has.

(That is what science is for- to tell us about what causes what, and what the causal properties of objects are.)

But,

Redness, roundness, sharpness, etc are not properties recognised or ascribed by any science.

charge, ion concentration, dendrite branching, etc. Tomatoes, daggers, etc are physical objects, and hence have only the causal properties recognised by physics.)

Redness, roundness, sharpness, etc are not responsible for our experiences.

(This follows from (3), (4) and (5).

So,

 Our experience of objects gives us no reason to ascribe these properties to them.

And

They are not in the objects.

(From the previous two arguments, now butressed by noting that our experiencing of the objects gives us no reason to locate them there.)

117.7

They are not properties of sensations (from the previous two arguments).

S

They are properties of sense data.

Now this argument has a kind of surprising ring to it: We are asked not only to believe in sense data, but also to believe that none of the things we naively take ourselves to have seen all these years actually have the properties we have naively ascribed to them. The tomato is not in fact red; the cat is not in fact brown; the stick is not in fact straight. It is interesting to

properties (the tendency to take science not only as the ultimate but as the only arbiter of the real) is accepted not only by Jackson, but by many of his critics, such as Churchland (1985) and used as an argument *against* the reality of sense data, as *they* are not posited in any of these sciences either! But surely, if neither the objects themselves nor our sensations are possible loci for the properties we perceive, sense data must at least be taken as plausible loci. We will return to criticism of this argument, along with its two companions, below.

are not, introspectible has no bite against Jackson's theory given to us when we look inside. Hence the objection often privileged as such as part of a foundationalist epistemological not immediate objects of knowledge, or at least are not not mental objects in any sense. They are not sensations, or versions of the theory. For one thing, Jackson's sense data are features that mark differences between this and more classical which posits them more as theoretical entities. raised against classical theories that sense data ought to be, but these things can simply be found in inner sense- they are not data for Jackson are not introspectible. He nowhere claims that programme. Rather, we come to know of these sense data only Mary allegedly came to know. Second, Jackson's sense data are they can be compared to the kinds of non-physical facts that percepts in the mind. Nor are they physical objects. Rather three distinctive features of sense data on Jackson's viewthrough sophisticated philosophical reflection. Finally, sense they are non-physical constituents of the world. In this way Let us close this exposition of Jackson's account by noting

6. Why Jackson's Arguments for the Sense Data Theory Fail

Sophisticated and compelling though these arguments and the theory they underpin may be, neither do the arguments succeed nor can the theory be maintained. Let us look first at

errors embodied in the theory itself.

We begin with the "Looks Argument." It can be seen as a defense of the following inference:

dagger look red. (L1) There are red sense data because the tomato and the

good inference. We can state this inferential principle more But to the extent that the argument succeeds, this must be a Now, this inference is not, to be sure, presupposed in the argument. That would be to beg the questions rather baldly. generally as follows:

(L2) If an object looks to have property P, there are sense data that do have P.

existence of sense data that do have that property that the following argument is sound: inference from things looking to have a property to the daggerish. It would follow from the validity of the central that the tomato also looks tomatoish, and the dagger also looks If this argument is valid, (L2) must be true. Note, however,

- The tomato looks to be a tomato; the dagger looks to be
- data that do have P. (L2) If an object looks to have property P, there are sense

ယ There are sense data that are tomatoes and daggers.

is to interpose something between us and the objects we objects and be done with it. But the whole point of this theory perceive to solve the of the problems about perception noted theoretical song and dance: Just say that we perceive physical objects renamed, there is no reason to go through this long non-physicality. Moreover, if sense data are simply physical central tenets of Jackson's theory of sense data, such as their Of course this conclusion is absurd, and would contravene

> internally inconsistent (Cresswell, 1980, p. 123-31). accomplished. The theory hence looks both pointless and above. It sense data just turn out to be those objects, nothing is

argument is valid, we are licensed to perform the following be seen as a defense of a highly questionable inference. If that interence: Consider now the Many-Properties Argument. It also can

(M1) Since roundness and redness/sharpness are in the same thing, there must be sense data that have these compound properties.

defends it. But if the argument is good, so is the inference Again, the argument doesn't presuppose this inference. It Again, it is an instance of a more general inferential principle:

(M2) If a thing appears to have compound properties there properties. must be a sense datum that jointly instantiates those

can the Many Properties Argument be: argument- embarassing because if the Many-Properties Argument is sound, so is this one. This one can't be; so neither But this leads again to the following embarassing

- The tomato appears to be red and round and a tomato. The dagger appears to be red and sharp and a dagger.
- 'n If a thing appears to have compound properties there properties. (M2) must be a sense datum that jointly instantiates those

So

က There must be sense data that are tomatoes and daggers.

from this argument that we do from the first. Jackson's own We hence arrive at all of the same absurd consequences

vesiues. Uackson, 19//, pp. 131-4).

Finally, let us examine the Colourlessness of the World Argument (CWA). The structure of this argument is somewhat different, and so is the difficulty we will develop for it. The CWA relies on the following inferential principle, embodying what we have called its "extreme scientific realism":

(SR) If a property is not mentioned in physics, it is not a property of physical objects.

Unfortunately for \mathbf{CWA} this principle licenses the following argument:

- If a property is not mentioned in physics, it is not a property of physical objects. (SR)
- Being a tomato and Being a dagger are not mentioned in physics.

J

So,

 Being a tomato and Being a dagger are not properties of any physical objects (follows from (1) and (2))

There are no tomatoes or daggers.

This really is an unfortunate conclusion, both for common sense and for Jackson, and suggests that things have gone deeply wrong. For one thing, we know- if we know anything at all- that there are tomatoes, daggers, and a host of other common physical objects. We might say that we know this with much greater certainty than we know that there are also non-physical, non-mental sense data! Moreover, Jackson's entire motivation for introducing sense data in the first place is to explain our knowledge of such things as tomatoes and daggers. If the consequence of their introduction is that there are not such things, the sense data themselves become rather

argument: (SR) is simply unwarranted. Sciences might be good arbiters of scientific properties. But just as (to mix Shakespearean tragedies) "there are more things on heaven and earth than are dreamed of in your philosophy, Horatio," there are more kinds of things on Heaven and Earth than are dreamed of in your physics, Frank! Commonsense things are among those. (Jackson, 1977, p. 134-9).

explaining how- as they are understood by Jackson- they can are the mediators of our knowledge of the external world means by which we represent things with the properties of the symptomatic. It is this: Jackson confuses the properties of the according to Jackson we know red tomatoes via red sense the objects by means of which we know them have. So phenomena- the sense data- directly, and in virtue of that have those properties. We know those intermediate we know those properties. He attempts to explain that roundness, sharpness, etc. Jackson is concerned to explain how do this. But that is what they are intended to do. Now the daggers and cats. As we have seen, there are difficulties in things themselves. First and foremost, sense data for Jackson theory of sense data of which these three fallacies are merely data; sharp daggers via sharp sense data. these intermediate phenomena precisely the properties that phenomena indirectly. And Jackson is driven then to ascribe direct knowledge of them, we come to know external knowledge by positing intermediate phenomena that also things we know about do have properties like redness, They explain how it is that we have knowledge of tomatoes, But it is now time to ask what the deeper error in Jackson's

But this is not how mediators of knowledge work. Consider a perfectly ordinary case of mediated knowledge. Suppose I know that there is a red tomato on the kitchen counter right now, not by perceiving it, but through a representation of that fact. Now that representation *might* be red: It might be a colour photograph of that very tomato. (It might even be a tomato- another very similar tomato placed

might be grey- part of a black and white photo of the tomato; it might be transparent- a line drawing of the situation. It might even be acoustic- my wife telling me about the tomato.

mysterious as the knowledge they were meant to explicate anything at all, and so knowledge of which must be at least as sense data that literally must be external objects if they are (Jackson, 1977, p. 130-42). replicating all of the problems he seeks to explain, constructing properties. No wonder then, that he only succeeds in role by reference to the sense data's possession of those sense data, but also in attempting to explain that mediating properties of external physical objects in knowledge-mediating controversial affair, and not the topic of this essay.) Jackson's mediate our knowledge is itself a hugely complex and fundamental error then is his attempt not only to locate the how representation is possible and what it is for a symbol to sentences about black and white photographs. (Explaining white paper explains nothing about how it might contain instance that the fact that this text is printed in black ink on how those phenomena mediate that knowledge. Note for that chance sharing of properties would explain nothing about properties of the things our knowledge of which they mediate, mediating states and processes did by chance have the mediate our knowledge of that object. And even if those knowledge need be possessed by the states or processes that The point is that no properties whatever of the object of

7. The Common neo-Cartesian Error and the Demon Cast Out

I said at the outset that the knowledge argument and the arguments for sense data theory have a common root in a myth that lies deep in our naive self-concept, and that that myth is in turn grounded in a Cartesian picture of human nature. Descartes famously considers the possibility that a

sensations and beliefs that we would have were there actually an external world of the kind we apparently perceive, despite the absence of such a world. He uses this heuristic device to examine the nature of our knowledge, arguing that we might be deceived by such a demon about the external world, in virtue of the fact that our knowledge of that external world is mediated by our knowledge of our own inner mental states, and in virtue of the fact that the demon can disrupt the relation between those states and the external world. On the other hand, he argues, we cannot be in error about our own inner states, since we know those immediately. There is no room for the demon to get between us and our own thoughts.

Central to this demonic view of perception and knowledge is the distinction between the *external* world of physical objects and our knowledge of them and the *internal* world of our own inner states and our knowledge of *them*. On the Cartesian picture, implicitly endorsed by Jackson and motivating both of these doctrines, the immediate objects of our inner experience-including our own qualititative and sensory states—are known immediately; are private, in the sense that they can be known only through introspection; and they are non-physical, unlike the objects we know in the external world through their epistemic mediation. (See (Garfield, 1989) for more on this model of introspection.)

This view is very tempting. We can identify at least four reasons for its allure: First, these special inner states and processes seem to provide a necessary bridge between us and the world. Without them, the gulf between ourselves and the objects of our knowledge- between subject and object-appears to be infinite. How else could we cross that chasm without some mediating representations of the kind Jackson posits? Without them we would be locked inside our own minds without any access to the world around us.

Second, this view seems to guarantee and to explain our special relation to ourselves. It explains why our knowledge of our own mind and mental states is so immediate, so immune

special kind of access to our own inner lives that nobody else has to our lives, and that we have to no other domain of knowledge or objects. If the structure of our knowledge and subjectivity is as the Cartesian image would have it, all of this appears to make perfect sense.

Third, this theory of the relation of self to the world appears to explain the possibility of error and illusion as well as the possibility of genuine knowledge. If we have only mediated knowledge of the external world then error simply is what happens when the normal relation between our mediating processes and the external world is disrupted, whether by natural catastrophe or demonic intervention. We can't be wrong about our self-knowledge simply because of its immediacy.

Finally, and perhaps most importantly, the Cartesian-Jacksonian view gives us a very special status in the world. We, unlike insensate physical objects, and perhaps unlike non-rational animals, have non-physical minds, inner arenas in which we are directly aware of non-physical goings ongoings on of the kind that Mary and only Mary could observe when she saw red for that first time, and which stand between us and merely physical tomatoes. This special status is in the first instance perhaps epistemological, but it has distinct metaphysical and perhaps moral and even religious overtones. Without it, and without the epistemology that guarantees it, it might appear that nothing distinguishes persons from the rest of the natural world.²¹

But we should be wary of purchasing uniqueness at such a high metaphysical and epistemological price. The difficulties that beset Jackson's attempts to make sense of this status are symptomatic of at least four deep problems that beset any such account, corresponding to the four motivations just adumbrated. First, in our attempt to construct a bridge between ourselves and the objects of our knowledge, we find that we have launched a regress of bridges. This is because the bridge we create is itself both another object of knowledge,

object. Hence we have two new epistemological chasms where once we had one. We now need a bridge to mediate our knowledge of our ideas and another to mediate the relation between our ideas and the external world. We saw the symptoms of this difficulty emerge as sense data came to look more and more like the objects access to which they were meant to explain, and when we noticed that the possibility of zombies issues in Mary's need to gain some kind of additional and impossible access to her own inner states.

genuinely sentient, as opposed to voodoo fakes. So what beings, our self-knowledge is called into question. Indeed, it on which we do not even know our own minds. have a special immediate knowledge of ourselves becomes one turns out that we cannot even know that we ourselves are the zombies enter our field of possibilities, even as alien as opposed to the mundane character of the zombies. And once picture seriously, our own uniqueness is in part a uniqueness world to be. For as we have seen, if we take this Cartesian initially conceives knowledge of others and of the external unproblematic self-knowledge appear as mysterious as transparent self-knowledge, makes that antecedently problem—the Cartesian picture, instead of explicating our looked like a picture of subjectivity according to which we knowledge of others and of the external world through a more Second—and this is reflected more directly in the zombie

Not only does apperception become mysterious, but perception of the external world is rendered doubly mysterious. For not only is it mediated by a veil of ideas that never allows us direct access to the putative objects of our knowledge, but we discover that those representative ideas share none of the qualities of those distal objects. The ideas have all the properties that commonsense attributes to the world—colour, shape, etc. But objects in the world have none of these properties. Nonetheless, somehow we gain knowledge of those objects via these ideas; somehow these ideas represent those objects; and somehow those objects are that to which we

would blush!

II.

objects and properties access to which they mediate and to our Jackson, of course, grants this. physical bodies, particularly our sensory and nervous systems. physical world. They must be causally related to the physical knowledge, as it purports to do—in causal interaction with the also, according to this theory—and as they must be in order non-physical world and these non-physical mental facts are for it to be at all plausible or for it to explain our perceptual with a non-physical world. The problem is, however, that this non-physical mental lives and are in direct epistemic contact virtue of being more than merely physical beings. We have of mind is that it makes us appear to be special precisely in of the appeal, we saw, of Jackson's updated Cartesian theory difficulties that have always plagued Cartesian accounts. Part either our own mental states or to that which lies beyond. But not at all clear how we could even be epistemically related to finally there are metaphysical difficulties in the wingsapparently impossible, or at least deeply problematic, and it is knowledge and knowledge of the external world become disastrous consequences for epistemology: Both selfsubscribes, and whose consequences he articulates has So the Cartesian picture to which Jackson implicitly

But this need for a causal anchor to the physical world on each side of the non-physical world raises two problems, one merely methodological and one deeply metaphysical. First, and perhaps least seriously, we should wonder about why an organism would evolve in such a way as to involve an intermediate non-physical link in an otherwise physical process of perception. What process could drive or confer advantage on such an ontological gerrymander? But never mind, perhaps it is some odd spandrel case. More seriously, the physical world appears to be causally closed (at least bracketing quantum phenomena, which are beside the point here). Physical phenomena can in general be entirely explained by reference to antecdent physical causes, and their

side effect of his theory of perception. It is at least ironic that singular in any comforting sense, has provided us with an suspect such special causal powers and an account of errects appear to be entirely bitherer triese is the extresive of notoriously inept approaches to the mind body problem as a mysterious. That is to say that he has revived one of the most physical and spook stuff, whose interaction is at best deeply account of our nature that renders us incoherent melanges of which human beings are epistemologically and metaphysically Jackson, rather than having provided us with a respect in causation that would make sense of them, it appears that like or what laws might govern it. Absent powerful reasons to any account of what such trans-physical causation would look differ from the rest of the world in this respect. Nor is there reason to suspect that objects of perception or neural tissues by a theory of the kind he proposes. each of the four principal motivations for a view such as Jackson's is in fact rendered all the more inaccessible precisely

8. Morals of the Story

The related difficulties of the knowledge argument and of Jackson's sense data theory of perception, we have seen, both trace to an overwhelmingly tempting vision of the mind as a kind of inner theatre in which plays of ideas are enacted for our private viewing pleasure—plays which, when veridical, grant us knowledge of the external world, and which, when fictional, issue in deception. But regarding the contents of the plays themselves there can be no error, for we are right there in the theatre with them. And furthermore, the stuff of these dreams is utterly discontinuous with the stuff of nature. Otherwise, it couldn't make it into this non-physical theatrical space of our minds. When put this baldly, no-one, not even Jackson, would sign on for such a theory of human nature has been roundly castigated over the past forty years any number of times. See

the most recent and popular version of this castigation.)

what it is to be a human being in a physical world. knowledge of our selves, and any hope of a coherent story of into which we are thus implicated is one that costs us even uniqueness and of knowledge assured, the Faustian bargain indeed. Despite the Mephistophelean promise of human have seen, the image the demon urges upon us is pernicious even postmodern explicit conceptions of ourselves. And as we do we discover its insinuations into our otherwise up-to-date, by rigorous examination of the views we find most plausible philosophy and in everyday life are maddeningly occult. Only possessed by the Cartesian demon, and its operations in sedimentation in our collective psyche. We are indeed by this vision is testimony to its allure and to the depth of its philosopher as subtle and sophisticated as Jackson is seduced this image has a perennial attraction. The ease with which a Despite such regular exposure and refutation, however

exorcism (though to call it final would surely be an act of philosophical hubris) as Jackson's that they are actively at work in our most conceits. In fact, we discover through examining analyses such and unwillingly into those very Cartesian misconceptions and then have the opportunity for a more thorough ritual of plausible and natural intutions regarding our own nature. We exorcised, and in that false confidence to lapse unconsciously conceit that all of the demons of our Cartesian past have been intelligent rigour, it is far to easy to succumb to the misplaced concept. This is the very engine of philosophical progress. deeply sedimented myths intrude into our explicit self-Without such analysis pursued with Jackson's relentless and the qualitative aspects of perceptual states just where these on the details of phenomena like perceptual knowledge and philosophical clarity and rigour of a philosopher such as Jackson allows us to see clearly, through focusing so precisely But there is a final, more positive moral to the story: The

structure. Only the clearest and most forceful articulations of a view allow us to see its deep presuppositions. Only examination of those presuppositions allows philosophical dialectic the depth we have a right to expect, issuing not only in a clearer understanding of some detail of the philosophical terrain, but in an entirely new perspective on the landscape. We hence owe a great deal to Jackson for making so explicit so much of what was heretofore implicit in our pre-reflective self-image. My critical remarks in this essay are hence offered with the greatest respect for Jackson's genuine philosophical contribution.

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This essay is dedicated to the memory of Prof Thomas Tymoczko, who insisted on and exemplified clarity of thought, complete intellectual honesty and rigour, and a commitment to enthusiastic, joyful and constructive philosophical debate, the goal of which was always the truth, and which always reflected a genuine openness to the views of his interlocutors and a concern that all involved profit from the interchange.

I thank Prof Max Cresswell for helpful conversations on Jackson on sense-data. Much of my discussion of that subject is influenced both by his fine essay on that material and by our conversations. I also thank Mr J.C. Beal for a spirited e-mail interchange on the knowledge argument, for access to some of his fine draft material on this topic and for very useful comments on initial formulations of the zombie argument. My views and formulations of several arguments owe a great deal to his insights and responses. I also thank the Propositional Attitudes Task Force, especially Lee Bowie, Murray Kiteley and Ernie Alleva for detailed comments and criticism and Prof Frank Jackson for useful comments on an earlier draft and for an exchange which clarified both his current views (which differ somewhat from those defended in the texts I discuss) and the differences that remain between us. Thanks especially to Prof Frank White whose comments on the materialism of David Armstrong catalysed my sense of the core of my own

disagreement with Jackson and whose vigorous opposition to my own views on the philosophy of mind has forced me to much greater clarity. Prof White will probably agree with almost nothing I say in this essay. But almost every line is in Dr Moira Nicholls for helpful editorial suggestions. some way a response to his powerful critique. And thanks to

I should note my complete agreement with this view. See Garfield, 1988)

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new ones. But see also (Conee, 1994) for similar replies as well as some

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world (believing her to be someone else). referring terms is impossible, salva veritate. So, while if Paul touches Queen Elizabeth II, he ipso facto touches the richest Queen, he may have no desire to meet the richest woman in the woman in the world. But though he may desire to meet the intensional. That is, in such contexts, the substitutivity of costates that intend or contain contents-in the case of these verbs, propositional contents like "that Queen Elizabeth II just walked The verbs are intentional because they denote psychological psychological verbs like "believes," "knows," "desires, Intentional contexts include those that fall under the scope of ". These verbs create contexts that are notoriously also

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cousins. The crucial point is that zombies and real humans are not compossible. impossible. It is curious that these views turn out to be close that we are zombies, I argue that they are conceptually some general suggestions he makes in that book (see especially argument can be read as a specific and explicit application of whereas Dennett argues not only that zombies are possible but pp. 404-405) to the knowledge argument. On the other hand, participated at Amherst College in 1992. In fact, my zombie Lockwood in a symposium on conscoiusness in which we all in (1991) and by his use of a zombie argument against Michael knowledge argument is inspired by Dennett's use of zombies The idea of using zombies so understood against the

states; and (3) that even if it is not, having qualitative beliefs requires being the subject of qualitative states. He argues that condition of having beliefs that one be the subject of qualitative qualitative states; (2) that even if they are not, it is a necessary Lee Bowie argues (e-mail correspondence) (1) that beliefs are

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by assuming that beliefs are non-qualitative I beg the question against the Knowledge Argument.

With regard to (1): First point: I find the claim utterly implausible way you feel? What does it feel like to believe that the number people with the same belief thereby feel some particular way? have each of them? Could it really be the case that different on its face. After all, think of how many beliefs you have (no doubt infinitely many). Is there something that it feels like to So if Bowie is right, my reductio in fact succeeds. zombies must be possible, and that they are in fact impossible about to show that if the Knowledge argument succeeds then this, and Bowie is right then zombies are impossible. But I am least grant Jackson this premise and show that the argument still fails. Third point: If Jackson and I are both wrong about qualitative states the Knowledge Argument already fails. I at beliefs are not qualitative states. So if they turn out to be takes it for granted (as do I and virtually everybody else) that reductio argument against the Knowledge Argument. Jackson 19 is odd? Second point: The zombie argument in any case is a When you change your mind about a belief, do you change the

(2) is another way of saying what I am about to conclude, viz., that argument. For a reply to (3) see note 8, below. zombies are impossible. It hence represents no criticism of my

00 One might respond at this point that zombies have no could they have beliefs about qualia? (This objection was qualitative beliefs. After all, they have no qualia. seriously: It cleaves off a set of beliefs that we can have but however, that to respond in this way begs the question pretty suggested to me by J.C. Beal in an e-mail interchange.) Note, impossible to circumscribe the set of beliefs inferentially connected to qualitative beliefs. Hence to deny that zombies cognitively in every respect. Why deny them these beliefs? that zombies can't. But zombies are supposed to be like us qualitative beliefs, to deny zombies these beliefs would be multiple inferential links between qualitative and non-Moreover, given the seamlessness of the web of belief, and the knowledge? That would be to argue in a rather tight circle. Because of the entailment regarding the impossibility of selfshare any of our beliefs, which would be in turn to deny the could have qualitative beliefs would be to deny that they could deny them a host of other related beliefs. It would be So, how

the conclusion of the zombie argument. possibility of zombies so described, which would be to concede

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In particular, it vindicates objections three, five, six and seven.

10 Beal for this disjunctive formulation of the

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Argument cannot be an argument for special non-physical Physical and mental domains, and show that the Knowledge grant him whatever account he may like of facts, and of the debate squarely on Jackson's shoulders. I even (generously) proof-and the burden of theoretical exposition-is hence in this the latter two domains are characterised). The burden or things--a physical one and a mental one (again, no matter how additional facts. I merely claim that whatever his account of facts he gets no argument for the existence of two domains of such different facts are in fact the same fact. I am quite self-consciously sidestepping these controversies. In this context Jackson's position. It is he, not I, who claims that there are these that is legitimate, as I am demonstrating the incoherence of specifying what constitutes a fact, or when two putatively worry here concerning my understanding of what a fact is, There are notorious philosophical problems associated with The Propositional Attitudes Task Force has raised a legitimate

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The isolation of the problematic status of such putatively private objects of introspective consciousness is due originally to Wittgenstein in (1956, §§ 208-318). The difficulties are amplified and sharpened by Sellars in (1963a, §§1-7, 32-38)

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(1956, §§ 208-318) and of Sellars (1963a, §§ 32-38, 47-48) As such it is a descendent of the argument of Wittgenstein

15 14 For a discussion of another, more empiricist version of the myth and its refutation, see (Garfield, 1989).

16 idea of "two different modes" is not obvious, and there must different modes of knowledge of one fact. How to cash out the different modes of knowledge of one woman to Mary's two analogy we are after here. Rather we are comparing his two QE II's regal status and her bank balance. That is not the properly be said in one sense to have two objects of knowledge: But this analogy should not be pressed too far: John may Contrast this with the conclusions drawn by Churchland (1985)

> different cognitive relations to them, and I suggest that first-person/third-person captures in a plausible way that under which a thing is known, or different properties it is difference in this case. whatever one's ontology of facts, it must be possible to have to spell this out. But it does nonetheless seem clear that represented as having. I don't have a view about the right way cannot require that we simply specify different descriptions forcefully in correspondence. In particular, if I am right, it Propositional Attitudes Task Force have urged this point be some way of doing this. Jackson and the members of the

17 that buried it until its Jacksonian revival see (Sellars, 1963a, For expositions of the classical theory see (Ayer, 1940; Broad 1925; Moore, 1953; Pitson, 1985; Price, 1932). For the critique

Sellars, 1963b).

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oval object viewed face-on. I thank Lee Bowie for pointing this its image on the retina is that that would be projected by an accurate way to put it-though hardly felicitous-is to say that reify appearances and hence to prejudge our analysis. The most the appearance is oval, as some would prefer. That seems to It may be misleading to say that it "thus appears oval." It certainly doesn't appear to be oval. But it is no better to say that

critique of these arguments to (Cresswell, 1980). Indeed, I am deeply indebted in my exposition of Jackson's central clarity. I then turn that critique in a slightly different direction with some slight modifications in the exposition for the sake of adopt Cresswell's exposition and critique virtually wholesale arguments for the sense data theory and in my first level Kiteley's (1960) diagnosis of the fundamental error in sense critique of Jackson's particular formulation is anticipated in Jackson's view. I also note that the structure of Cresswell's when it comes to my diagnosis of the deeper difficulties with data theories.

For a discussion of these issues, see (Churchland, 1979; 1985) and (Garfield, 1988; 1989; unpublished).

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21 I thank Prof Frank White for emphasising the centrality of this issue to neo-Cartesian views of the mind