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- 40 See my "Timothy Williamson's The Philosophy of Philosophy," Analysis 69 (2009): 109-16; and Williamson's "Replies to Kornblith, Jackson and Moore," Analysis 69 (2009): 125-35.
- 41 Thus, Williamson remarks, "I expect armchair methods to play legitimately a more dominant role in future philosophy than [Kornblith] expects them to - of course, such difference in emphasis can result in widening differences in practice." "Replies to Kornblith, Jackson and
- In "The Role of Intuition in Philosophical Inquiry," in M. DePaul and W. Ramsey (eds), Rethinking Intuitions"; and in "Timothy Williamson's The Philosophy of Philosophy." in "Appeals to Intuition and the Ambitions of Epistemology," in Stephen Hetherington (ed.), Epistemology Futures (Oxford: Oxford University Press, 2006), 10-25; in "Naturalism and Intuition (Lanham, MD: Rowman & Littlefield, 1998), 129-41; in Knowledge and Its Place in Nature:
- 44 "Replies to Kornblith, Jackson and Moore," 128.
- 45 "What Am I to Believe?," in Steven Wagner and Richard Warner (eds), Naturalism: A Critical Appraisal (Notre Dame, IN: University of Notre Dame Press, 1993), 148.
- 46 "Indispensability of Internalism," 54.
- 48 This is the way that Conee and Feldman characterize internalism. See Evidentialism: Essays in events, and conditions." doxastic attitudes strongly supervenes on the person's occurrent and dispositional mental states. Epistemology (Oxford: Oxford University Press, 2004), 56: "The justificatory status of a person's
- 49 This is going to be so on any way that one tries to make sense of the direct/indirect distinction I do not mean to be endorsing any particular way of making out such a distinction, or, indeed even the claim that we can make good sense of it.
- to pursue these questions about the a priori.
 52 "Indispensability of Internalism," 53.
 53 "Replies," 292.
 54 BonJour seems to come quite close to acknowledging this. At one point he remarks that, Quarterly 81 (2000): 67-89. It would take us too far afield from the issues under discussion here which BonJour believes we have unproblematic access to a priori knowable truths. I have discussed these problems about the a priori in "The Impurity of Reason," Pacific Philosophical against unproblematic access to mental items can easily be generalized to cover the cases in is threatened. More than this, there is every reason to believe that the kind of argument I make is committed to an extremely broad skepticism, and, indeed, the coherence of the entire position knowable truths. "Indispensability of Internalism," 55. I will focus in the text, however, on our accounts, we have such unproblematic access by way of reflection to at least some a prior access to relevant features of our mental lives. If internalists cannot secure this, then internalism

sceptical claim being precisely that certain beliefs which are in fact held are nonetheless belief that B is justified by raising the issue of whether I do in fact accept B, the normal Certainly it would be a very unusual brand of scepticism which would challenge whether my

(The Structure of Empirical Knowledge, 81)

sense of what is unproblematic, rather than the dialectical sense, which is epistemologically But claims about which skeptical challenges are common in the history of philosophy, or which are unusual, tell us nothing about which kinds of claims are unproblematic tout court. And it is this

55 I am indebted to Timothy Williamson for conversations on this topic on a number of occasions for helpful comments and criticisms. Thanks too to Matthew Haug for helpful suggestions St Andrews; and the University of Cincinnati. I am grateful to audiences on all of these occasions In addition, I have presented versions of this paper at Fortaleza, Brazil; the University of

KIRK LUDWIG Methods in analytic epistemology

to some recent challenges. the landscape, clarify issues, set aside some confusions, and outline responses a posteriori elements, that it should not draw on empirical work wherever own competence in the relevant concepts. I do not suggest that epistemany points must be elided altogether, I aim to sketch salient features of Although discussion in the space available will necessarily be brief, and relevant (and non-question-begging), or that it is not a communal enterprise. mology is limited to conceptual analysis, that it does not have important first-person enterprise, that is, as one which draws on the investigator's construed, and the method of thought experiments in epistemology, as a In this chapter, I defend the program of conceptual analysis, broadly

empirical research to discover their real essences. and so on, are natural kind terms, and hence that we must engage in epistemology is misplaced because "knowledge," "justification," "evidence" objections to thought experiments that have their source in "experimental turn away from our proper target of study, the actual phenomena of philosophy." Finally, in my concluding section, "Is 'Knowledge' a Natural Then in "What Are the Lessons of Experimental Philosophy?," I address knowledge, justification, and so on. In "What Is the Role of Thought of concepts and conceptual truths. In the section following, "What Is Kind Term?," I address the charge that pursuing conceptual analysis in Experiments?," I give a brief overview of the method of thought experiments World?," I address the charge that in studying epistemic concepts we In "How Could Conceptual Analysis Tell Us Anything about the passing not just reduction but also articulation of conceptual connections Conceptual Analysis?," I review a broad conception of analysis as encom-In the next section, "What Are Concepts?," I sketch a traditional account

What are concepts?

in different thought contents. For example, the thoughts that chess is a Concepts, in the sense we are concerned with, are common (general) elements

expresses a concept, we specify it as the concept of F, and we say of concepts their application conditions. If a noun or adjective "F" negation, conjunction, disjunction, universal and existential quantificasystematic contributions they make to the truth conditions of thought that something falls under the concept of F iff it has the property of tion, and so on. I will call the conditions for the correct deployment predicates, etc. But there are also logical concepts such as that of triadic, etc., concepts expressed with one-place, two-place, three-place contents. Concepts fall in different categories. There are monadic, binary, in turn individuate it.1 Concepts in turn are individuated by the and how they are combined in it, determine its truth conditions, which the concepts of chess and of games. The concepts in a thought content, strategic game and that chess is a popular game are distinct but share

mode of combination. facts about the application conditions of the contained concepts and their truths in the sense that we can explain why they are true by adverting to person is identical to two distinct people, and so on. These are conceptual longer than b and b is longer than c, then a is longer than c, that no one mean. Similarly it is a conceptual truth that if something is completely a range of numbers lies within it, as it is a conceptual truth that knows that the moon is larger than the earth if it is not true, that no transparent, then it is not colored, that for any rigid bodies a, b, c, if a is the arithmetic mean is always greater than or equal to the geometric mode of combination. It is a conceptual truth that the arithmetic mean of A conceptual truth is true in virtue of its contained concepts and their

in a position to come to know it can be expressed in three connected The link between something's being a conceptual truth and our being

- Passessian. To think that p, one must possess the concepts involved in it.
- Competence. To possess a concept C, one must be competent in its deployment, in the sense of being in a position to deploy it correctly cally to conditions so specified. conditions as one takes them actually to be or in response hypothetiin thought, on the basis of its application conditions, in response to
- Recognition. A judgment or thought that p which is an expression solely of one's competence in deploying the concepts involved in light of believing) that p on the basis of their application conditions. their mode of combination counts as knowing (or being justified in

response to conditions that are relevant to the truth conditions that To have a concept is to have a competence expressed in thinking rightly in

> of knowledge on that basis.2 nected to their components and their structure and implies the possibility individuate the thought. Having thoughts is linked to competences con-

exclude attitudes whose attribution rests on such a practice-which independently of it. could not exist in the first place if there were no thoughts attributed practice. The possession condition then should be understood to in it. Whether this is right or not, clearly we could engage in such a are licensed (at least sometimes) in attributing to him an attitude that someone had a thought though he failed to possess all the concepts understand all the words in it (Burge 1979). This would allow (us to say) whose content is given by the sentence, even if the speaker doesn't fully uses a sentence intending to use it as others in his community do, we Possession has been challenged on the ground that when a speaker

given other beliefs. how it looks, or application on the basis of similarity to a prototype, etc., involve rather certain experiences, e.g., thinking something red given application might not be based on accepting a set of propositions, but when one believes that q or not-p. Even for non-logical concepts will be expressed in part, e.g., in how one responds to accepting that p of objects. One's possession of the concepts of disjunction and negation concept correctly in thought is always a matter of recognizing features response to conditions that are relevant. 4 Nor does it say that deploying a one invariably does, or that it is easy to see the right thing to think in deploy concepts one possesses correctly in thought.3 It does not say that Competence is a weak condition: it says only that one is in a position to

plausible way of understanding the claim, the knowledge one has is a experience, the deliverances of introspection, or memory. Hence, on one deployment of the concepts involved in it is not based on facts about anything red is colored, one thereby knows that anything red is colored. colored. If one judges on the basis of the concepts involved that A judgment one reaches on the basis solely of competence in the Suppose that it is a conceptual truth that anything that is red is

What is conceptual analysis?

and sufficient conditions for the application of a concept, i.e., reductive connections between concepts, propositions, and experience, and ordering analysis. On the other hand, there is the project of tracing constitutive There is, on the one hand, the project of providing informative necessary one broader, though critics often seem to focus only on the first of these. Conceptual analysis in philosophy subsumes two projects, one narrower and

families of concepts, so far as that is possible, in terms of relative priority have it without having the other but not vice versa. A concept or family of concepts is prior to another just in case one can i.e., conceptual elucidation (Strawson 1992, ch. 2; McGinn 2012, ch. 7).

concepts of philosophical interest admit of informative analyses. But the think about the world are just those that we should not think capable of basic concepts. And the concepts that structure most deeply how we we must find some concepts that we can't analyze in terms of other more for every concept of philosophical interest. On pain of an infinite regress. cards that we would get informative necessary and sufficient conditions hardly exhausted by an interest in reductive analysis. It was never in the reductive analysis. Here we turn to elucidation. interest of getting a clear view of the conceptual structure of the world is Conceptual analysis is sometimes dismissed on the grounds that few

suggested by Davidson's program in the theory of meaning (see the discussion in Davidson (2001, 137)), on which the idea is that a family of a theory involving members of the first family, without one-by-one global structure of our concepts, and the way that our concepts hang ence and that complex ideas are built up out of them. This is not a defiempiricism that holds that all simple ideas (blurring the distinction can be reduced to a set of basic concepts. An example is a version of statements about evidence for it.6 reduction of concepts, or even a holistic reduction of a theory to a set of with a distinct family of concepts used to describe canonical evidence for rationality, etc.) may be illuminated by tracing constitutive connections interlocking concepts (of meaning, truth, belief, desire, intention, agency, together may not conform to the model. A sense of the possibilities is nition of conceptual analysis but a substantive hypothesis about the between sensation, experience, and concept) derive from sensory experithe analog of foundationalism for concepts, which holds that all concepts Nor should conceptual analysis be rejected with conceptual atomism

about the world? How could conceptual analysis tell us anything

Why think that conceptual analysis tells us anything about the world? The view that it does not has been forcefully stated by Hilary Kornblith:

concepts of them. The subject matter of philosophy of mind is the mind On my view, the subject matter of ethics is the right and the good, not our knowledge itself, not our concept of knowledge itself, not our concept of it. And the subject matter of epistemology is

(2002, 2)

By bringing in talk of concepts ... in an epistemological investigation, we only succeed in changing the subject: instead of talking about knowledge, we end up talking about our concept of knowledge.

(2002, 9–10)

at the phenomenon itself? really interested in knowledge, shouldn't we put the concept aside and look Analysis of the concept of knowledge is fine as far as it goes, but if we are

but the point extends to elucidations). "F(...)" expresses the concept of interest (I focus on reductive analysis are standardly presented in a biconditional of the form [C] in which This is a false dilemma. Conceptual analyses (for "predicative" concepts)

 \Box For any x, y, z, ... F(x, y, z, ...) iff ...

of which it gives an analysis. For illustration, take an instance (Klein concepts, or any words, and in particular it does not mention the concept truth. [C] is a material mode statement. It does not mention any basic than the concept being analyzed and (b) [C] expresses a conceptual expressions used on the right-hand side express concepts that are more An instance of [C] counts as a reductive analysis provided that (a)

has knowledge. is true, then it says something about the conditions under which someone This is not about the concept of knowledge: it is about knowledge itself. If it became evident to x, then p would no longer be evident to x.

(iii) p is evident to x, and (iv) there is no proposition q such that if q [K] For any x, for any p, x knows p iff (i) p is true, (ii) x believes p,

edge. If [K] meets the conditions, we can use it to give a formal mode statement about the application conditions of the concept of knowledge concept of knowledge and states what it is for someone to have knowland the right-hand side both expresses the application conditions of the statement, and if it is correct, the statement express a conceptual truth, about people's concepts, but about the actual properties in the world that exactly this objection (2006, 332): "The problem with such an account is it is claimed to meet conditions (a) and (b). This is a claim about the material mode statement. When it is put forward as a conceptual analysis, these concepts pick out.)" This rests on a misunderstanding. [C] is a that it seems to say nothing about people's concepts. (It would tell us, not Then is it not a conceptual analysis after all? Knobe and Burra raise

p would no longer be evident to x. (iv) there is no proposition q such that if q became evident to x, then [KC] For any x, for any p, the concept of knowledge is true of the pair $\langle x, p \rangle$ iff (i) p is true, (ii) x believes p, (iii) p is evident to x, and

despite a technical ascent to talk of sentences, our eye is on the world" truth conditions of sentences: "The truth predicate is a reminder that, about the concept of knowledge, does not give us information about what knowledge is. As Quine put it in the parallel case of giving the conceptual analysis, so it is a mistake to think that [KC], because it is and (b). From it one can infer [K]. As it is a mistake to think that [K], because it is about knowledge, cannot be used to express a For this to be a conceptual analysis, it also has to meet conditions (a)

number of things that have exerted an influence, sometimes perhaps in conjunction with one another. not tell us anything about what our concepts are of? I think there are a What are the sources of the curious view that conceptual analysis does

sufficient conditions for being C. that suffices to produce a material mode statement about necessary and application conditions of a concept of C one thereby gives information One may simply be the failure to recognize that in specifying the

techniques are relevant to it.9 psychologists are in the business of analysis and second in thinking their enterprise.8 But this is confused twice over. First in thinking that may also encourage the thought that analysis should be an empirical psychologists are studying the very concepts for which we seek analyses and, hence, truth conditions, of thoughts. The former psychological a concern for understanding concepts in their role in fixing the contents. natures of the things which the concepts pick out. The thought that conditions of thoughts, and so would not be thought to be relevant to the laws involving them - gives no insight into how concepts fix the truth project - whether it concerns how concepts are realized, or contingent A second may be the conflation of the psychological study of concepts with

possession of the concept. One's possession of the concept therefore what fixes its subject. Thus, any beliefs one has about Fs presuppose you knowledge of Fs. But this is a category mistake. The theory would one will not think that an analysis of the concept of F ipso facto gives could not be explained by one's having the theory. What it is to possess itself have to involve beliefs that include the concept because that is Fs, and might in fact be radically mistaken. 10 If one thinks this, then about Fs, a folk theory of sorts, which may not accurately characterize A third source is the conflation of the concept of F with a mini-theory

> rule. The mistake of the mini-theory of concept possession is to confuse a concept is to have the ability to apply it correctly in accordance with a a competence in the deployment of a concept with having beliefs

of the persistence of a theoretical dogma after its support has been itself has continued to exert an influence. This is an example par excellence with the doctrine, and no substitute has been offered, though the view and hence are devoid of factual content. Identifying analytic truths with framework in the Tractatus that made sense of it was not adopted along his criticism of the analytic/synthetic distinction (Quine 1953). But the by the logical positivists, and associated with analytic truths by Quine in tautologies entails analytic truths are non-factual. This idea was adopted the contained atomic sentences, and so always true (tautologous) or false sentences constructed out of the connectives are insensitive to those of the mechanism allows for limiting cases in which the truth values of the of truth-functional logic aids in sketching positions in logical space, but (contradictory). These do not locate one in logical space, have no sense, to the extent to which it locates us in logical space. The logical apparatus propositions and truth functions out of them. A proposition has a sense independent of one another. We represent how the world is by atomic sitions represented atomic states of affairs. Atomic propositions were are tied to Wittgenstein's picture theory of representation and truthconceptual truths are non-factual. The doctrine's origins in the Tractatu. truths are expressed with analytic sentences, we get the conclusion that functional theory of propositions. Wittgenstein held that atomic proponamely, the idea that analytic truths are non-factual. If all conceptua form is found in the Tractatus Logico-Philosophicus (Wittgenstein 1961), idea that analytic truths do not provide ampliative knowledge. A pure A fourth source of confusion stretches back to Kant in one form, the

on the present issue. I take up the question whether epistemic terms are attributes (if any). As competence with the term doesn't fix the kind not all terms are natural kind terms, I agree that competence with natural Kind Term?"). natural kind terms in the concluding section ("Is 'Knowledge' a Natural property, it doesn't fix the concept of the kind either. So this doesn't bear "concept" we've discussed), because that is fixed by the kind property it however, does it suffice to grasp the concept of the kind (in the sense of rather than providing us with a way of directly apprehending them. Though natural kind terms like "gold" or "oak," which point us to real essences kind terms does not put one in a position to give their essence. Nor, which should be construed on the model of competence in the use of A fifth source is the view that concepts correlate with semantic competence,

What is the role of thought experiments?

experiment. certain judgments about them. In this case, we engage in a thought whether someone who infers justifiably from a justified but false belief something which is true thereby knows it. 11 It may help to directly by asking when it is correct to judge one or another thing, in or sufficient application conditions for concepts by considering what feaand present experience. We could make a start on identifying necessary the products of antecedent beliefs about contingent features of the world pursuing goals in the light of what we want most to get. Most of the representations of the world and when we form and act on intentions in express their structure. We exercise conceptual competence inter alia things with relevant features and then to ask whether it is correct to make describe a scenario involving hypothetical individuals as placeholders for the sense of its following from the description of the conditions—e.g. by competencies, it is more expedient to draw on those competencies parterns of inference. But since we are interested in the parterns induced tures are invariably present when we deploy them, or reflecting on when we make judgments on the basis of our beliefs and perceptual basis of conceptual competences but to reflect on how those judgments Conceptual analysis requires us not just to make judgments on the judgments we make are not conceptual truths, however, because they are

but she doesn't know that the gas gauge is reliable. However, she often notes how much gas is in the tank and what the gauge reads. coming to believe that the gauge is reliable that the gauge is reliable? Question: Does Roxanne know in virtue of the process she follows in always accurate, and then concludes that the gauge is reliable concludes by induction (again a reliable process) that the gas gauge is the gauge reads N and the tank is N. As deduction is a reliable process, reads is reliable, as is the process by which she comes to believe who drives a car with a reliable gas gauge, believes what it reports, describes the following thought experiment (2000, 353-56): Roxanne, her beliefs on these occasions are reliably produced. Roxanne how much gas is in the tank. She infers on such occasions that The perceptual process by which she comes to believe what the gauge reliabilism (NR) allows illegitimate bootstrapping, Jonathan Voge is general. An example will illustrate. In arguing that neighborhood Though the scenarios involve hypothetical individuals, the import

I assume that bootstrapping is illegitimate. Roxanne cannot establish that the gas gauge is reliable by the peculiar reasoning I have just described

> The challenge to NR is that it may go wrong here. On the face of things, it does improperly ratify bootstrapping as a way of gaining knowledge.

(2000, 354)

antecedent states a condition conceptually sufficient for the consequent. 12 proposition follows from another. case that for any x, if x..., then x knows that the gas gauge is reliable?" could be recast in terms of a universally quantified conditional, "Is it the and it is the type of case that we are to reason about. Hence, the question Thus, thought experiments draw on our ability to tell whether one where the intention is that one should answer on the basis of whether the Here the scenario functions as a schematic description of a type of case,

analysis. 13 this is both necessary and sufficient for the possibility of conceptual Since having these concepts puts us in a position to deploy them correctly, cular the concept of conceptual entailment (what follows from what). But conceptual analysis requires the concept of a concept, and in parti-A creature can have concepts without the concept of a concept.

hypothesis, prediction, and test, with the role of observation played by judgments with respect to scenarios in thought experiments, that is, are sufficient. The process has the familiar pattern of observation, details that may be thought to be relevant to whether the conditions then test the proposal against judgments in cases where we have filled in obvious right off the bat that there is no greatest prime number. We can conditions proposed are correct. It need be no more obvious than it is related in diverse ways with others, it is not immediately obvious that the true. This being insufficient, we may propose that knowledge is e.g., ceptual truths, such as that knowing p requires believing p and p being Thought experiments have played, and continue to play, a significant role in epistemological theorizing. Usually thought experiments do not judgments about entailment relations. justified true belief. Typically with concepts situated in a family of concepts cases. We begin with observations that on the face of it express conestablish outright an analysis, but rather provide starting points and test

seems no worse off than mathematics. Confidence that Peano's axioms (see Henderson and Horgan 2001). In this respect, though, philosophy important. In these cases, the justification we have is in part a posteriori we have surveyed representative cases and not overlooked anything however, confidence that we have a correct analysis rests on the claim that proposal is formulated, to see directly that it is correct. In many cases, of our competence, and are thus a priori, the analysis is often based on a form of inference to the best explanation. We may be able, once the Thus, while the judgments we make, if properly based, are expressions

axiomatize the natural numbers rests in part on their entailing classical

Problems in conducting thought experiments arise from at least three

Problems of design. A well-designed thought experiment has (a) a clearly scenario, which constitutes a test case, and which is complete in the characterized target proposition, (b) a clear, unambiguously described example that fails these conditions). relevant to the target proposition (see Ludwig 2007, §2, for an respects relevant to the test, and (c) a clear, unambiguous test question

Problems of execution. The subject should have a clear understanding of (a) the purpose of the thought experiment, (b) the scenario, (c) the quesunderstood literally should be based solely on conceptual competence. thought experiment is not met, and (e) the answer to the question tions, and (d) the possible responses, including the response that insufficient information is given or that a presupposition of the

Problems of presupposition. A thought experiment, perforce couched in lancompetence in their use involves grasp of the concepts they express. guage, presupposes that the words used express concepts, and that are semantically defective, as in the case of vagueness and the semantic section, "Is 'Knowledge' a Natural Kind Term?") and for words that paradoxes (Ludwig and Ray 2002). This presupposition fails for natural kind terms (see the concluding

a judgment, we seek to explain the mistake and re-evaluate the case so as by others (who are good "observers"), by fit with well-developed accounts to see it in a different light. This is a form of the method of reflective in surrounding areas, and by various theoretical considerations. Withdrawing We can check judgments by how they fit with other cases, with judgments

out we can appeal to others. Why accept the assumption in the case of similar methods to correct mistakes about memory: on the assumption that the judgments we make under optimal conditions will be correct. We employ the method of reflective equilibrium in conceptual analysis is that most of can be conflicting but equally coherent sets of judgments. But the suggestion being competent in the deployment of the relevant concepts. This guarantees thought experiments? First, to think about a subject matter requires with the rest and with general knowledge; where our own resources give we remember mostly accurately, we test cases by how well they cohere is not that coherence makes for justification. The assumption underlying justification (Stich 1988), and so being subject to the objection that there Reflective equilibrium is criticized sometimes for providing only internal

> skeptical one. confidence that we can assess evidence for any hypothesis, including the wrong generally throws all inquiry into doubt, since it undermines reason to think that this is so and (b) the supposition that we get it practice we typically fail to express our competences, there is (a) no special thought experiments. Second, while it is consistent with this that in that we are in a position to make correct judgments about scenarios in

vidual fallibility, a more reliable method of tracking correct responses is socio-economic background, and that in consequence "it is wrong for knowledge and not its essence. is that most of the terms of interest in epistemology are natural kind to take up the survey methods of the social sciences. The second objection intuitions" (Machery et al. 2004, B8). The less radical is that given indiphilosophers to assume a priori the universal validity of their own ... more radical is that "intuitions" are relative to such things as cultural or on one's own conceptual competence. Here I distinguish two charges. The terms, so that thought experiments at best reveal e.g., the stereotype of in epistemology. The first objection challenges the reliability of relying I turn to two objections to the traditional use of thought experiments

What are the lessons of experimental philosophy?

to the aim of philosophy. perspective is ultimately necessary to assess such surveys and also essential question philosophical practice. Second, coming to a view from one's own responses to thought experiments go very little way toward calling into philosophy. But I wish to urge two points. First, surveys of undergraduate I cannot discuss in detail the now large literature surrounding experimental

that has attained the status of a classic in the field, "Epistemic Intuitions and Normativity" by Weinberg et al. (2001). 14 economic groups undermines the probative value of thought experiments Among the many papers in the genre I will focus for illustration on one I begin with the charge that "cognitive diversity" across cultures or socio-

some probes, there were differences in majority responses across Westerners (1970, 1015-16), and Lehrer's Trutemp case (2000, 187). In the case of in the philosophical literature such as Gettier cases, Dretske's zebra case responding to probes involving thought experiments that have appeared tural groups. The evidence consists in survey data of undergraduates that "epistemic intuition" so characterized varies, for example, across culplausible justification" (2001, 19). They then adduce evidence to show for which the person making the judgment may be able to offer no judgment about the epistemic properties of some specific case—a judgment Weinberg et al. characterize an epistemic intuition as "a spontaneous

said Bob really knows that she does. Thus, it looks as if "epistemic said Bob only believes Jill drives an American car, whereas 57 percent of believes Jill drives an American car. Seventy-four percent of Westerners with a Pontiac, students were asked whether Bob really knows or only owns a Buick and so an American car, though she recently replaced it the case of a probe about a "Gettier case" involving Bob's thinking Jill East Asians, and students from the Indian subcontinent. For example, in intuitions" and therefore concepts of knowledge must differ across East Asians and 61 percent of the students from the Indian subcontinent

something connected with those differences. This need not involve errors could show (assuming shared concepts) is that there are errors traceable to sense in which the concept of knowledge could differ across cultures. The of the target response to cultural background or anything else, and no thoughts they are involved in, it is clear that there could be no relativity the question asked about it. Given this, and that concepts individuate the plausible justification. But the method of thought experiments calls on given a stipulative definition as a spontaneous judgment about epistemic in the application of concepts, for it may involve errors in understanding most that relativity of response to cultural background or other factors us to respond on the basis solely of our understanding of the scenario and properties for which the person making it may be able to offer no cars generally, one might think Bob knows this also and so is justified in assumes that most Americans who own an American car buy American statement. In the probe involving Bob and Jill, for example, if one by different background assumptions, or ways of taking a question or the task, or differences in how unarticulated details are filled in, affected in believing that she is now driving a Buick. believing that Jill drives an American car independently of being justified An initial mistake here confuses the issues. "Epistemic intuition" is

understood? Isn't the problem now that this just shows that none of us are questions can't all be taken to be judgments based on conceptua very good at saying when one thing follows from another? But so what? So what if the varied responses of undergraduates to these

subject? No, not even if every student makes the same mistake. Analysis at it right off the bat. Students are often not very good at recognizing petencies. But that doesn't entail everyone is equally good at it, or good is a cognitive skill. It can be inculcated. It draws on basic shared commistake on a homework assignment in logic shake the foundations of the majority in some cases, can make mistakes, but we knew that. Does every Gettier cases (properly described). The results show students, even a How could it show this? We know, after all, the correct answer in

> cepts, but get better at exercising them systematically, and beyond the usual range of cases they confront, and at a host of other related cognitive istic reasoning. But many get better at it. They don't acquire new condeductive validity, or in solving math problems, or elementary probabil-

of pitfalls in conducting surveys involving thought experiments.) of trying in Ludwig 2007, 145-46; see also Cullen 2010, for discussion within the field and from other fields. (For a case study, see the discussion thought experiments as well as theoretical considerations, both from approached with those tools in hand, and placed in the context of other versational pragmatics for example). Thought experiments should be sophisticated tools for dealing with them (work on logical form and coninvestigation there are methodological problems, we have also developed we cannot identify entailment relations when we put a query about an entailment in the form of a thought experiment.¹⁷ While as in any something specific to them. But there is no special reason to think that ities, Doubts about thought experiments in philosophy have to focus or mines all inquiry, including inquiry aimed at casting doubt on our abilability to recognize when one thing follows from another. That under-What would show trouble? It can't be a general skepticism about our

person methodology. ses, we should move away from a first-person methodology to a thirdperhaps precisely because of the problem of identifying probative respon-I turn now from these general skeptical concerns to the thought that

even when we think we have explained the task clearly. And for untutored or untrained subjects, we can't assume task understanding armed against the various pitfalls in conducting thought experiments for the type of thinking involved. We cannot assume that most people are most people are good at drawing relevant distinctions, or have the facility Gettier cases, shows this does not always obtain. We cannot assume gambler's fallacy, as well as the mistakes students make on surveys about independent judgments (Dietrich and List 2004). The prevalence of the class has a positive bias toward truth on the matter in hand and makes either. The Condorcet jury theorem assumes that everyone in the relevant individual is right. But as already noted, we can't take it for granted probability that the majority is right becomes greater than that any completely irrelevant. One might even be encouraged by reflection on the Condorcet jury theorem to think that with enough participants, the It would be a mistake to dismiss how most people respond to surveys as

in the gambler's fallacy. Furthermore, this independent view of the right insight ourselves into the correct answer. That is how we detect the fallacy we need to have an independent view of the matter. We need to have Ultimately, to assess whether the majority response on a survey is correct,

endorse it. We want to see why it is true, to understand it ourselves. cians endorsed it, so our interests in philosophy would not be served hrst-person approach to conceptual analysis. 18 This is the most fundamental reason why surveys cannot replace the merely by knowing that a certain claim is true because most people merely that a certain theorem was true because a majority of mathemati-Just as our interest in mathematics would not be served by knowing response is exactly the kind of understanding that we seek in philosophy

Is "knowledge" a natural kind term?

of this chapter to take up the question with respect to all epistemic application conditions of the concepts they express. It is beyond the scope consequence," whose essence is revealed in reflecting on our grasp of the whether they are like "number," "circle," "cylinder," "necessity," and "logical etc., discovery of whose real essences requires empirical investigation, or the like, are all natural kind terms like "gold," "air," "water," "tiger," "gene," such as "knowledge," "truth," "evidence," "justification," "warrant," and case for the hypothesis. terms. I will restrict attention to "knowledge," which may be the best The general question facing us is whether the family of epistemic terms

What are natural kind terms?

is also, it seems, an empirical discovery. Thus, it seems to be both necessary and a posteriori. Let's take "gold" as our example. If (1) is true, then (1N) is true, but (1)

- Gold is an element with atomic number 79
- (IN) Necessarily, gold is an element with atomic number 79

view that (1), if true, expresses a necessary a posteriori truth? How do the characteristic features of natural kind terms give rise to the

relation the kind is to bear to the basis of application in at least most of the application of the term to objects or phenomena, (b) an explanatory doesn't directly give us the kind but rather (a) involves a basis for by way of our having been given the relevant property. The practice which treats its purpose as that of "picking out" a natural kind, but not of phenomena. A natural kind term like "gold" is embedded in a practice the objects we apply it to, and (c) thereby a mode of identifying the kind kind we may take to be a stable explanatory kind relative to some range We should distinguish natural kinds from natural kind terms. A natural

> the form of the account.) which constitute its basis of application. (Details won't matter so much as structure of the items to which the term is applied those features of it of application of the term "gold" is for it to explain in virtue of the constitutive explanation, and for a kind to bear this relation to the basis intended explanatory relevance relation is something on the order of application includes being (in typical circumstances of application) a explanatory relation it is to bear to (most of) the instances picked out on malleable incorruptible yellow metal that dissolves in aqua regia. The its basis of application, and the default option. For "gold," the basis of role as picking out a natural kind, the basis of application, and the practice, amounts to learning, along with its grammatical category, its use of the term, in the sense of counting socially as having mastered the application in most actual cases (the default property). Competence in the what the term picks out if there is no kind which explains the basis of its actual cases (the kind property), and, possibly, (d) a default oprion for best explanation of the relevant sort for the basis of its application in most the term is to pick out, as, roughly, the kind, if any, which provides the

appears that "Gold is an element with atomic number 79" expresses a element with atomic number 79, x is an element with atomic number ment with atomic number 79" are given by "For all x such that x is an property for the term "gold" is being an element with atomic number 79. given by the basis of application, but rather is the relevant kind property, property to an object. But the property it is intended to attribute is not necessary, a posteriori truth. inquiry is required in order to identify the relevant kind. It therefore 79," and that is necessarily true. However, it is clear that empirical Then: the truth conditions for "For all x such that x is gold, x is an eleif any, and otherwise the default property. Suppose that the relevant kind atomic number 79. The predicate "is gold" then is used to attribute a (1) as having the form: For all x such that x is gold, x is an element with form, mass nouns contribute predicates (Koslicki 1999). Thus, I represent "Gold" is a mass noun like "snow" or "flesh" or "garbage." In logical

correctly. By this standard, the proposition expressed by (1) is an a priori conceptual truth. And as the property attributed by "gold" is fixed by proposition is a priori if someone who grasps it is in a position to judge it conceptual truth--indeed, it is true in virtue of its structure alone. A number 79 is an element with atomic number 79. That proposition is a 79, then the proposition is that anything that is an element with atomic the property it attributes. If that is being an element with atomic number "gold" contributes, not anything having to do with its basis, but instead number 79"? If we mean what determines the truth conditions for (1), What proposition is expressed by "Gold is an element with atomic

what kind explains its basis of application, so is the concept expressed by it, in the sense of "concept" on which concepts are individuated by turns out not to be a counterexample to only a priori truths being their contributions to the truth conditions of thought contents. (1) then involved in (1N) is old and familiar, not new and exotic. necessary. It expresses a logical and hence conceptual truth. The necessity

attributes (or what concept, in the relevant sense, it expresses). And this is stituent property of which is being an element with atomic number 79. what proposition "Gold is an element with atomic number 79" expresses. the same as saying that what required empirical work was discovery of That is, we didn't know prior to investigation what property "gold" basis of application is for the most part something the fundamental condidn't know is that the stuff to which we apply "gold" properly on its Of course something here requires empirical investigation: what we

question whether "knowledge" in particular is a natural kind term traditional methods that presuppose grasp of the thoughts expressed by philosophical interest traffics in natural kind terms, to that extent also discover what (what we call) gold is without empirical investigation. mology. For it is clear that given the way "gold" is introduced, we cannot sentences in the domain of discourse are inapplicable. I turn now to the Therefore, to the extent to which a domain of discourse that attracts This is no help, however, with the methodological challenge to episte-

Is "knowledge" a natural kind term?

the model of the investigation into the natures of things we picked out ural kinds" is to be construed as the claim that we should treat it as on of knowledge" should be pursued "on the model of investigations of natbut the phenomenon itself suggests that the claim that "the investigation not our concept of the phenomenon, something inside us. In short, ... the careful examination of the phenomenon, that is, something outside of us, theoretical unity is is the object of our study ... it is to be found by this we might pass to the thought that since "[u]nderstanding what that our willingness to regard them as a kind" (Kornblith 2002, 10). From are not merely some gerrymandered kind, united by nothing more than that cases of knowledge have a good deal of theoretical unity to them; they human knowledge and a presupposition of the field of epistemology is because knowledge is a natural kind: "There is a robust phenomenon of One might be tempted to argue that "knowledge" is a natural kind term with natural kind terms. Thus, it is natural to take the intent here to be [should be pursued] on the model of investigations of natural kinds" (11). investigation of knowledge, and philosophical investigation generally The suggestion that we should not examine our concept of knowledge

> will clear the ground). expressible in the following argument (even if not Kornblith's intent, this

- kind, then term T is a natural kind term. For any kind K expressible using a term T, if kind K is a natural
- \mathfrak{D} Knowledge is a natural kind
- Knowledge is expressible using "knowledge."
- Therefore, "knowledge" is a natural kind term.

us in a position to specify what its essential nature is (to the extent possible) by analysis. 19 atomic number 79. However, "element with atomic number 79," which a natural kind term, and gold is a natural kind, namely, the element with natural kind that we don't possess the concept of it in the sense that puts a natural kind term. And it doesn't follow from something's being a doesn't follow from knowledge being a natural kind that "knowledge" is picks out the same natural kind, is not a natural kind term. Thus, it But the argument is unsound because the first premise is false. "Gold" is

a natural kind term. claim that "knowledge" is a natural kind term is a claim about its use in the language. So let us instead ask directly how to test whether a term is We might at this point entertain other indirect arguments. But the

stitute knowledge, though those states explain the basis for their applicastates "knowledge" they are speaking truly, as the hypothesis predicts. tion of "knowledge" to them. We then ask whether when they call those the states they pick out which suffice for us to judge them not to consentence containing the term in a use position would express a proin which a community of individuals associates with "knowledge" the same position. We can then test the hypothesis by considering a circumstance provision is made for it, or not attribute any property at all, and so no the basis of its application, then either it would track a default property if uted, and the propositions expressed by sentences containing it, would kind that explains the features had been different, then the property attribif any actually explains the features that constitute its basis of application in linguistic practices as we do, but where there are salient differences in have been different. And if there were no underlying kind that explained the samples to which we apply it. Fixing the practice, if the underlying term is that what property it attributes is fixed by what explanatory kind "water" and "gold" in the first place (1975). A hallmark of a natural kind to bring out what's special about our practice with respect to terms like A good test is provided by the kind of thought experiment Putnam usec

a body moving in the appropriate ways. The BIVs are therefore partly sort that generate in my doppelgänger experiences of the requisite sort for predict either (a) or (c).²¹ says or thinks "Jones knows a lot about Volkswagens" he is (a) speaking focus on, however, is whether, for example, when my BIV doppelgänger guistic hypothesis. We will judge (correctly) that they would not know very much at all, since most of their beliefs are false.²⁰ The question to about "what goes on around them" (we can even imagine they move their ences. They can, in a fairly straightforward sense, carry on "conversations" as is, modulo references to the self and time, the course of their experipositions with respect to language use are to be exactly the same as ours, causally responsible for the co-evolution of their experiences. Their disthrough the mechanism of the supercomputer, generates inputs of the firing in a way that would be appropriate for that, and that in turn, another is speaking or moving, that is because the other's motor cortex is to other BIVs. For example, when it seems to my doppelgänger that relative to the plan of the fictitious world they are presented with, inputs experiences so as to take into account outputs from brains in determining, inputs to their brains (or bodies if you like), and generates coordinated are bodies in vats (BIVs) in the style, say, of the 1999 film The Matrix by The hypothesis that "knowledge" is a natural kind term would seem to the truth, (b) speaking falsely, or (c) not expressing a proposition at all to raise any skeptical worry about our own knowledge, but to test a linlate that we know that the actual world is not like this. The point is not lips and utter sounds, though otherwise immobile in their vats). I stiputhe Wachowski brothers. A supercomputer tracks outputs and regulates Consider a possible circumstance in which we have doppelgängers who

no proposition at all? sented with the illusion that p, and ... "? Alternatively, does he express ger says "Jones knows a lot about Volkswagens" does he speak truly in his that p as the illusion that p. Now we can ask: when my BIV doppelgänconvenience, let us sum up these features pertaining to the proposition constraints on knowledge-throw in whatever else seems relevant). For with what they are about, but with features of the supercomputer that reliably produces belief that p in circumstances in which Jones is prethem (and perhaps certain other features corresponding to internalist realize its model of the illusory world which their experiences represent to "knowledge" would track would be states that are reliably connected, not language by "Jones is in a belief state that is caused by a process that language? Is the proposition expressed by his sentence expressed in our The states (in themselves and others) that most of their uses of

it us in that situation, and we were to wake up, as it were, and find we could On the face of it, neither of these suggestions has any plausibility. Were

> not what the hypothesis that "knowledge" is a natural kind term predicts say the latter, and it is very clear that this is exactly what our BIV dopexpressing allegiance to a practice that is incompatible with treating say? Would we say (in the language that we would in those circumstances pelgängers (who have our linguistic dispositions) would say. But this is tracked states that were reliably produced by illusions, then we would be say the latter, even given that we believe that "knowledge" formerly "knowledge" as a natural kind term. It is very clear that we would in fact previously have any knowledge but thankfully we now do"? If we would "Many people know where they live"? Or would we say: "We did not we were speaking neither truly nor falsely when we claimed such things as speak): "We no longer have any knowledge but we used to"? Would we say what our use of "knowledge" had actually tracked, what would we think or leave the vats, and learned of what had happened, and were instructed in

of any subject matter, should themselves be outsourced to the world that must form the framework for our thinking about the rational investigation of a surprise. It was not to be expected that epistemic concepts, which we are investigating. kind, "knowledge" is not a natural kind term. I dare say this is not much but the preliminary result is that whether or not knowledge is a natural I will leave it as an exercise to the reader to construct further test cases,

Notes

- In have in mind truth conditions in the sense in which we say that "p" in "s is true iff p" gives the truth conditions of s iff "p" translates s.
- 2 This is intended to capture the core of a traditional view that in one form goes back at least to Frege. See Peacocke 1992 for one presentation of the general form of the idea, and Chalmers and Jackson 2001 for another.
- 3 Most of Williamson's arguments against epistemic conceptions of analyticity in 2007, ch. 4, aim to approach in the last pages of the chapter, and gives a schematic and unconvincing argument show that grasp of conceptual truths is insufficient for assent or disposition to assent. I don't against it, but in any case it is not the proposal advanced here. know that anyone ever maintained otherwise. He considers only one proposal for an epistemic
- 4 Goldman suggests competence views may be alright in theory but little help in practice (2010) 135), but the truth is that we have made a lot of progress in conceptual clarification in non-ideal
- 5 Contrary to what is sometimes suggested (Stich 1988; Ramsey 1998), there is nothing in so-called prototype concepts per se incompatible with the tradition in analysis. Goldman makes this point
- 6 I elide discussion of what must be an integral part of the overall project when we confront the fact that our access to the structures of thoughts relies on the analysis of the structure of the sentences we use to express them, namely, that a first step is analysis of the logical form the domains of discourse we are interested in.
- See Ludwig 2007, 131; McGinn 2012, ch. 5. Semantic descent is not a recent discovery
- 8 Kornblith writes, for example: "If concepts are psychologically real, and also ... there is a wel established tradition in experimental psychology that studies them, then what room is left for the armchair methods of philosophers, methods designed to illuminate the very same target?" (2007, 30).

10 Both Ramsey (1998) and Cummins (1998) seem to make this mistake. I detect this thought in in the context of subjects seeking to say what is true. This takes us in the direction of experimental philosophy, which I discuss below ("What Are the Lessons of Experimental Philosophy?").

11 This answers the paradox of analysis. Grasp of concepts is competence in correct deployment. An deployed in it. See McGinn 2012, ch. 4, and Strawson 1992, 5-13, for essentially the same account; a similar line can be found in Fumerton 1983, and earlier in Myers 1971. analysis is a proposition we come to know on the basis of exercising competence in the concepts

12. I have avoided the word "intuition." While I have a position (Ludwig 2010), given the dust raised by this judgments based on conceptual competence (Cappelen 2012). In my view, Cappelen is ongoing discussion understood to be concerned with the analysis of (the concept of) knowledge. sage quoted doesn't talk about intuitions or conceptual analysis, the fact is the article is part of an looking too hard for metaphilosophical remarks in philosophers' texts. Though Vogel in the pas-Cappelen has argued through case studies that philosophers do not rely on intuitions, including in extensive debate about the word, it seems best avoided in favor of an independent characterization of what we are interested in. See Nagel 2007 for a historical review. Recently, Herman

13 Perhaps this itself has an air of illegitimate bootstrapping, for this reasoning is itself presented as resting 14 In the same vein see Nichols et al. 2003; Alexander and Weinberg 2007; Swain et al. 2008. See Ludwig 2010 for further discussion of the 2001 paper. on our understanding of the contained concepts, and there seems to be no higher court of appeal (Cummins 1998). But this is true of every fundamental source of justified belief (Goldman 2007, 5)

15 I draw attention to this (rather obvious) point in my 2010; Sosa (2008) made the point earlier.

16 One response is that it is an empirical matter whether philosophers theorize better with the aid connection, see the next note. For a response that draws on empirical work, see Nagel 2012. presupposes we can come to a correct view. But who are we going ask about this? In this us no reason to think otherwise. See Williamson 2011. In any case, resolution of the challenge of thought experiments than undergraduates (Weinberg et al. 2010). Yes, but survey results give

17 Weinberg (2007) argues, not that there is special reason to doubt the reliability of the method of thought experiments, but rather that it is defective because not open to independent error correction. For a response, see Grundmann 2010.

18 On a different view, experimental philosophy aims merely "to provide an account of the factors conducting thought experiments. It is hard to see any objection to or in this. that underlie such applications" (Knobe and Nichols 2008, 5). On this view, experimental philothat influence applications of a concept, and in particular, the internal psychological processes sophy doesn't aim to engage in or undermine conceptual analysis, but to help identify pitfalls in

19 Goldman has suggested that it is incompatible with philosophical practice that knowledge is a natural which is evidence against the claim. But I will suggest we can test the hypothesis more directly below concept. The standard practice seems incompatible with "knowledge" being a natural kind term, kind term doesn't cease to be one when we discover the kind property—but when we do, we grasp its kind (2007, 8; 2005). But the practice doesn't rule it out. A natural kind we pick out by a natural

20 I don't think that a form of externalism about thought content that undermines the description the hypothesis that externalism about thought content is false. of the scenario is correct. But, in any case, the hypothesis should predict a result even relative to

21 Perhaps one could appeal to a default property, but it is a mystery what it could be

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