

# Knowledge in the Face of Conspiracy Conditionals

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## Abstract

A plausible principle about the felicitous use of indicative conditionals says that there is something strange about asserting an indicative conditional when you know whether its antecedent is true. But in most contexts there is nothing strange at all about asserting indicative conditionals like ‘If Oswald didn’t shoot Kennedy, then someone else did’. This paper argues that the only compelling explanation of these facts requires the resources of contextualism about knowledge. Attempts to classify the relevant indicative conditionals as exceptions to the principle, or to reformulate the principle in terms of epistemic states other than knowledge, or to try and explain away our intuitions about the appropriateness of these conditionals all miss the mark.

## 1 Introduction

As I will understand the view, moderate invariantism about knowledge is the combination of two theses: (i) the moderate part: that we are generally in a position to know what is believed on the basis of perception, memory, and testimony; and (ii) the invariantist part: that if ‘ $S$  knows that  $p$ ’ is true in one context of use, it is true in every context of use.<sup>1</sup> For the purposes of this paper we may abstract away from discussion of the moderate invariantist’s preferred theory of the conditions under which perception, memory, and testimony suffice for knowledge. What matters are the specific knowledge *attributions* the moderate invariantist wants to deliver—i.e., the kinds of case by case judgments her theory is designed to predict. And on that matter I take it as uncontroversial that for an adult  $S$  in reasonably normal circumstances, the following are all paradigm cases of sentences that express propositions of which  $S$  has (moderately invariant) knowledge:<sup>2</sup>

( $P_1$ )  $S$  has hands.

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<sup>1</sup> Given the potential context-sensitivity of the expressions  $S$  and  $p$ , this condition isn’t quite right. More accurate would be something like: If ‘ $S$  knows that  $p$ ’ is true in one context  $c$ , then it is true in every context  $c'$  that assigns the same semantic value to  $S$  and  $p$  as  $c$ . But I will stick with the simpler construal in the main text for the sake of readability.

<sup>2</sup> The point would be cleaner but more cumbersome to state if ( $P_1$ )-( $P_3$ ) were made tenseless.

(P<sub>2</sub>) Donald Trump is the president of the United States.

(P<sub>3</sub>) Oswald shot Kennedy.

The core argument of this paper is that if a certain independently plausible principle about the felicitous use of indicative conditionals is true, then there is at least one context *c* (in fact many) in which for each of the above sentences (P<sub>1</sub>)-(P<sub>3</sub>), the proposition expressed by ‘S knows that (P<sub>*n*</sub>)’ is false in *c*. By extension, then, if the principle is true, then moderate invariantism about knowledge is false.

What’s the principle? Put roughly, it’s that there is something generally strange about asserting an indicative conditional ‘If *p*, *q*’ when you know whether *p*. Thus, since conditionals like (1)

(1) If Oswald didn’t shoot Kennedy, then someone else did.

seem unproblematically assertable in a variety of ordinary contexts—or so I will argue—then contra moderate invariantism, it appears that there are ordinary contexts in which ‘S doesn’t know whether Oswald shot Kennedy’ expresses a true proposition.

It will then be argued that given the considerations motivating the principle, the best explanation of the existence of contexts in which it appears that (e.g.) ‘S doesn’t know that Oswald shot Kennedy’ expresses a true proposition is that ‘knows’ is context-sensitive. Views that give an alternative diagnosis of these facts—say that the appearance of (1)’s felicity is misleading, or that it is part of the semantics of ‘knows’ that those who are inclined to find (1) felicitous context-invariantly *fail* to know that Oswald shot Kennedy—are not plausible. Thus, the best account of our intuitive judgments about the felicitous use of indicative conditionals requires a contextualist theory of knowledge.

Here is the plan for the paper. §2 defends at length the principle that connects our judgments about the acceptability of indicative conditionals to facts about what is known in context. §3 gives some reasons to restrict the scope of the principle to so-called “canonical” uses of the indicative conditional, and explains what the distinction amounts to. §4 then presents a battery of examples of (what I will call) *conspiracy conditionals*—(1) being a paradigm case of such a conditional—and argues that they combine with the principle about indicatives to show that moderate invariantism about knowledge is false. §5 considers and rejects the view that the conspiracy conditionals of §4 can be excluded along the lines discussed in §3. §6 considers some analogs to the core principle that do *not* appeal to facts about what is known to generate the relevant judgments about the felicity of indicative conditionals. §7 examines the moderate invariantist’s last line of defense: an error theory about the felicity judgments of conspiracy conditionals. It argues that such an error theory is implausible in a way the moderate invariantist’s more familiar error theories are not. Finally, §8 argues that the problems raised by conspiracy conditionals are just as worrisome for proponents of *skeptical* and *sensitive* invariantism about knowledge. So, the

paper concludes, a proper account of our intuitions about indicative conditionals requires the resources of epistemic contextualism.

## 2 IGNORANCE

We begin with IGNORANCE, the principle that connects our judgments about the felicitous uses of the indicative conditional to facts about what is known. Put roughly, the principle is that whenever one knows whether  $p$ , there is in general something strange about asserting an indicative conditional whose antecedent is  $p$ . Why ‘in general’ rather than, say, ‘always’? Because as we will discuss in detail in §3, there is a distinction between *canonical* and *non-canonical* uses of the indicative conditional, and the weirdness typically only arises for canonical uses. But more on that later.

With that caveat in the background, here is a precise statement of the core principle:

**IGNORANCE** In every context  $c$ : if ‘ $S$  knows whether  $p$ ’ is true in  $c$ , then ‘It is inappropriate for  $S$  to assert the indicative conditional ‘If  $p$ ,  $q$ ’ in the canonical way’ is true in  $c$ .<sup>3</sup>

Here we will be understanding ‘(in)appropriate’ in something of a technical sense, whereby an assertion is appropriate iff the content of the assertion is neither false nor presuppositionally defective, nor carries any problematic implicatures.<sup>4,5</sup>

The motivating thought behind IGNORANCE is the combination of the general principle that one’s choice of words can impart information about one’s epistemic state, plus the idea that the main purpose of the indicative conditional is for reasoning and talking about propositions whose truth-value is unknown. The idea really is an intuitive one. If you’ve settled whether  $p$ , you shouldn’t be asserting things like ‘If  $p$ ,  $q$ ’. Instead, you either should be asserting  $q$  (when you know that  $p$ ), or—if determined to assert a conditional—you should be asserting the counterfactual ‘If it were that  $p$ , it would be that  $q$ ’ (when you know that  $\neg p$ ).

That is the case for IGNORANCE stripped to its core. More can be said in the principle’s favor—and that is what the rest of this section will do—but the arguments are in some sense all variations on the same theme.

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<sup>3</sup> Even though the principle is stated meta-linguistically, at this point we are leaving open whether either ‘knows’ or ‘appropriate’ is context-sensitive. If we were invariantists about these notions, then the appeal to contexts would be superfluous.

<sup>4</sup> It is worth noting that on this conception of ‘appropriateness’, it is possible for an assertion to be inappropriate even when none of the relevant interlocutors is in a position to know that it is. For example, this can happen when the content of the assertion is false but believed to be true. When the gap between appropriateness and the appearance of appropriateness might matter, we will be careful to distinguish the two. (This will be of special significance when we get to the discussion of error theories in §7.)

<sup>5</sup> Notice that there is no requirement that the conditional be *true*. It just can’t be false. The paper’s core argument is thus consistent with non-factualism (alternatively: non-propositionalism) about indicative conditionals. See, e.g. (Edgington, 1995) for a paradigm non-factualist theory of indicatives, as well as (Rothschild, 2012) for a helpful overview of the issues involved here.

However, before getting to these arguments, it will be helpful to have on the table some principles about the relationship between knowledge and assertion. Here are three closely related ones that will appear at various points in later discussion:<sup>6</sup>

**KSA** In every context  $c$ : If  $\ulcorner S$  knows that  $p \urcorner$  is true in  $c$ , then  $\ulcorner$ It is epistemically appropriate for  $S$  to assert that  $p \urcorner$  is true in  $c$ .

**KNA** In every context  $c$ : If  $\ulcorner$ It is epistemically appropriate for  $S$  to assert that  $p \urcorner$  is true in  $c$ , then  $\ulcorner S$  knows that  $p \urcorner$  is true in  $c$ .

—and their conjunction:

**KA** In every context  $c$ :  $\ulcorner$ It is epistemically appropriate for  $S$  to assert that  $p \urcorner$  is true in  $c$  iff  $\ulcorner S$  knows that  $p \urcorner$  is true in  $c$ .

In words: **KSA** says that knowledge is (epistemically) *sufficient* for assertion; **KNA** says that knowledge is (epistemically) *necessary* for assertion; and **KA** is the conjunction of **KSA** and **KNA**. The ‘epistemically’ qualifier is meant to control for cases in which an assertion of  $p$  would be problematic for reasons that go beyond the speaker’s evidential grounds for  $p$ . These are cases in which the assertion of  $p$  is impolite or otherwise harmful, as well as cases in which the assertion is pragmatically problematic—say because it is too weak, irrelevant, misleading, etc. I will not defend any of these principles about knowledge and assertion here, though I will make some suggestive remarks in their favor later in the paper (§6). Some of the arguments for **IGNORANCE** will make use of **KSA**, others will make use of **KNA**, and some will make use of neither. But having the principles on hand will make all of this easier to track.

The main argument in favor of **IGNORANCE** is that conditionals with antecedents whose truth values are known tend to sound somewhere between strange and terrible. Here is an example. Suppose your (otherwise normal) friend Jane comes up to you and says:

(2) ? If I had a bagel for breakfast this morning, then I went out for brunch with Jim.

If you are like me, you will find such an utterance puzzling. The thoughts that suggest themselves are: (i) that Jane has forgotten what she ate for breakfast; or (ii) that Jane is trying to engage you in some kind of unpleasant puzzle about her daily activities. The same is true of:

(3) ? If I didn’t have a bagel for breakfast this morning, then I ate cereal at home.

Supposing you know Jane isn’t the kind of person to speak in roundabout ways about what she ate for breakfast—i.e., that (ii) isn’t happening—you might be inclined to respond along the lines of:

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<sup>6</sup> For some arguments in favor of there being a connection between knowledge and assertion along the lines of these norms (though not necessarily in their exact form), see (e.g.) [Unger \(1975, ch. 6\)](#); [Williamson \(2000, ch. 11\)](#); [DeRose \(2002\)](#). See also [Worsnip \(2017\)](#) and the citations therein for a sense of the larger debate around knowledge accounts of assertion, with particular attention to its relationship to epistemic contextualism.

- (4) What do you mean *if* you had [didn't have] a bagel for breakfast this morning? Do you not remember what you ate for breakfast?

The fact that (2) and (3) seem strange and that (4) seems like an appropriate response admits of a straightforward explanation: when someone utters an indicative conditional 'If  $p$ ,  $q$ ', we typically infer that that person does not know whether  $p$ .<sup>7</sup> Since you would expect Jane to know whether she ate a bagel for breakfast, her utterance of an indicative like (2) or (3) is jarring. This is what IGNORANCE is supposed to reflect.<sup>8</sup>

A related bit of evidence for IGNORANCE comes from the oddity of speeches of the form 'If  $p$ , but if  $\neg p$ ,  $q$ ':

- (5) ?? Lexie is playing viola right now. But if Lexie is playing guitar right now, she isn't playing viola.
- (6) ?? It rained every day last week. But if it was sunny on Wednesday, then it was probably sunny on Thursday too.

I'm not sure whether these speeches ought to be classified as incoherent or merely very strange, but I'm going to take it as a datum that there is something definitely not right about them.<sup>9</sup> Given KNA—the principle that says knowledge is (epistemically) necessary for assertion—IGNORANCE provides a simple explanation of the felt oddity of (5)-(6). And that is: (i) if you are taken to be in a position to assert that  $p$ , then you will be taken to know that  $p$ ; (ii) given IGNORANCE, if you are taken to be in a position to assert that 'If  $\neg p$ ,  $q$ ', then you will be taken *not* to know that  $p$ ; thus (iii), in asserting that 'If  $p$  but if  $\neg p$ ,  $q$ ' you represent yourself as both knowing that  $p$  and not knowing that  $p$ . Hence why (5)-(6) seem bizarre.

A final empirical consideration comes from the following sorts of question/answer pairs:

- (7) a. Might Jake be at home?  
b. Yeah, if he's sick he's at home.
- (8) a. Must Jake be at work?  
b. No, if he's sick he's at home.

<sup>7</sup> Given epistemic contextualism, this way of making the point is somewhat sloppy with use and mention. But the basic point is just that when someone asserts a conditional like (2) or (3), a natural thought to go through your head will be along the lines of 'Does that person not know whether they had a bagel for breakfast this morning?'

<sup>8</sup> Notice that this explanation invoked neither KSA nor KNA. Also note how much the conditionals improve if the breakfast under discussion isn't this morning's, but one from a few weeks ago:

(2\*) If I had a bagel for breakfast two Saturdays ago, then I went out for brunch with Jim.

(3\*) If I didn't have a bagel for breakfast two Saturdays ago, then I ate cereal at home.

Why the improvement? Because obviously there is no general presumption that people know what they ate for breakfast weeks ago. IGNORANCE correctly has no complaint about an assertion of either (2\*) or (3\*).

<sup>9</sup> Though see the discussion of so-called 'echoing' and 'concessive' uses of the indicative conditional in §3.

It is difficult to see why (7b) would constitute an appropriate affirmative answer to (7a) if not for the fact that an assertion of an indicative conditional is a way of conveying information about what might be the case. Likewise, it is difficult to see why (8b) would constitute an appropriate negative answer to (8a), if not for the fact that a context in which ‘If he’s sick, he’s at home’ is assertable is one in which it’s not the case that Jake must be at work. The natural conclusion to draw from these data is that epistemic modals and indicative conditionals are assessed against the same kinds of possibilities. Given the (relatively) uncontroversial assumption that the possibilities relevant in the assessment of epistemic modals are in most cases determined (partly) by what is compatible with what the speaker knows—we get a clear connection between IGNORANCE and our judgments about (7)-(8).<sup>10</sup> An affirmative answer to the question ‘Might Jake be at home?’ is explained by an utterance of ‘If he’s sick, he’s at home’ precisely because the conditional is assertable only if it is an epistemic possibility that Jake is sick. If it’s an epistemic possibility that Jake is sick, and the conditional ‘If he’s sick he’s at home’ is assertable, then it must also be an epistemic possibility that Jake is home. Thus, Jake might be at home. The same applies *mutatis mutandis* in explaining (8b)’s appropriateness as a response to (8a).

Lastly, it is worth making a general point about why we should expect IGNORANCE to be true, at least when we restrict attention to the sorts of conversational settings those working in the tradition of, e.g., Grice (1975) and Gazdar (1979) take themselves to be theorizing about. Here the considerations separate somewhat neatly between cases of indicatives with antecedent that are known to be true and cases of indicatives with antecedents that are known to be false.

Start with indicatives whose antecedents are known to be true. You know that  $p$ , and are considering whether to assert ‘If  $p$ ,  $q$ ’. There are three possibilities: either you know that  $q$ , you know that  $\neg q$ , or you know neither  $q$  nor  $\neg q$ . No matter which obtains, there will be something peculiar about an assertion of ‘If  $p$ ,  $q$ ’. If you know that  $q$ , then an assertion of ‘If  $p$ ,  $q$ ’ is problematically weak. Why assert the conditional when you could have just asserted  $q$  (or ‘ $p$  and  $q$ ’)? It would be strange much in the way it is strange to say ‘Some of my students failed’ when you know that all of your students failed.<sup>11</sup> If instead you know that  $\neg q$ , then the problem with an assertion of ‘If  $p$ ,  $q$ ’ is even simpler: bracketing exotic putative counterexamples to modus ponens, the conditional is straightforwardly false, or is at least the kind of thing in which you should have approximately zero confidence. Finally, if you do not know whether  $q$ , then although you don’t know whether ‘If  $p$ ,  $q$ ’ expresses a falsehood (or something in which you should have approximately zero confidence), you also don’t know that it *doesn’t*. And so by KNA it is unassertable.<sup>12</sup>

<sup>10</sup> I do not intend to be making any especially controversial assumptions about the semantics of epistemic modals here. The assumption is really quite weak: it’s just that at some point in the calculation of the semantic value of ‘Might/Must  $p$ ’, facts about what the speaker *knows* (rather than believes or entertains or what have you) are involved.

<sup>11</sup> A similar line of reasoning suggests that it should be generally impermissible to assert ‘ $p$  or  $q$ ’ when either disjunct is known, as well as ‘If  $p$ ,  $q$ ’ when the *consequent*  $q$  is known. I think these generalizations are basically as good as the one IGNORANCE is meant to capture, but the class of exception cases is messier for them than it is for IGNORANCE.

<sup>12</sup> Strictly speaking nothing as strong as KNA is needed. All that is needed is (i) the principle that whenever you know that  $p$  but don’t know whether  $q$ , ‘If  $p$ , might  $q$ ’ is assertable, and (ii) the principle that if ‘If  $p$ , might  $q$ ’ is assertable,

As regards cases in which the antecedent of an indicative conditional is known to be false, the argument is less complicated. If you know that  $\neg p$  and want to assert a conditional whose antecedent is  $p$ , then rather than assert the *indicative* ‘If  $p$ ,  $q$ ’, you should assert the *counterfactual* ‘If it were that  $p$ , it would be that  $q$ ’.<sup>13</sup> Support for this idea, at least in some form or another, is widespread in the literature on conditionals—see, e.g., Stalnaker (1975); von Stechow (1999); Gillies (2010); Leahy (2011); Khoo (2015). Indeed, many believe it is a presupposition of the indicative that its antecedent is an epistemic possibility. I will thus take this half of IGNORANCE to be relatively uncontroversial.

That is the case for IGNORANCE. Setting aside the quality of the arguments just presented in its favor, the principle seems to me something of a platitude about the standard use of indicative conditionals. I have yet to encounter an alternative theory of the sorts of reactions we have to speeches like (2)-(8) in the literature, and I imagine that is because much of the work on conditionals takes something like IGNORANCE for granted.<sup>14</sup> That there is a tension between moderate invariantism about knowledge and IGNORANCE is thus of interest in its own right, even for those who would give up the latter before the former.

### 3 Non-canonical uses of the indicative conditional

Before giving the argument against moderate invariantism from IGNORANCE, it is important that we get clear on the nature of the qualifier about canonical uses of the indicative conditional. This section will present a brief taxonomy of non-canonical uses, and then say a bit about what unifies the conversational circumstances in which one tends to find them.

The most straightforward statement of the difference between canonical and non-canonical uses of the indicative conditional is this: when used *canonically*, an indicative conditional ‘If  $p$ ,  $q$ ’ is a device for reasoning about and expressing connections between propositions that are *open* in the relevant context. All other uses are non-canonical. What does it mean for a proposition to be open in a context? Well, that’s a matter that can (and will in §6) be disputed, but the natural thought is that a proposition’s being open is, unsurprisingly, a matter of neither it nor its negation

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then ‘If  $p$ ,  $q$ ’ isn’t.

<sup>13</sup> A note about terminology: I distinguish indicative conditionals from counterfactual conditionals wholly in terms of their *semantic* properties, rather than (e.g.) their syntactic properties. Putting things as roughly as our purposes call for: an indicative conditional is a conditional whose semantics concerns what is happening at a contextually determined set of *epistemic* possibilities, while a counterfactual conditional is a conditional whose semantics concerns what is happening at a contextually determined set of (sometimes epistemically impossible) *metaphysical* possibilities. Nothing in this distinction rules out the existence of conditionals with indicative marking (e.g., ‘If  $p$ ,  $q$ ’) whose semantics is counterfactual, and likewise conditionals with subjunctive marking (e.g., ‘If it were/had been that  $p$ , it would be/would have been that  $q$ ’) whose semantics is indicative. See, e.g., von Stechow (1999); Khoo (2015) and the citations therein for further discussion.

<sup>14</sup> Some readers have balked here. Why isn’t the principle that it is inappropriate to assert ‘If  $p$ ,  $q$ ’ in the canonical way when it is *common ground* whether  $p$  an obvious competitor to IGNORANCE? We’ll have more to say about this proposal in §6. For now I’ll just observe that the view has nothing to say about sentences like (2) (‘If I had a bagel for breakfast this morning, then I went out for brunch with Jim’). Neither the proposition that Jane had a bagel for breakfast nor its negation is common ground when Jane asserts (2). Yet the assertion is still quite puzzling.

being *known*. On this way of understanding the canonical/non-canonical distinction, canonical uses of  $\lceil \text{If } p, q \rceil$  are those in which the speaker does not know whether  $p$ , while non-canonical uses are those when the speaker does know whether  $p$ .

Now obviously this way of characterizing the distinction isn't very helpful at the present stage of the dialectic. Our aim is to use IGNORANCE to leverage intuitive judgments about indicative conditionals into arguments against various theories of knowledge. But if a conditional can only be used in the canonical way if its antecedent is unknown, then IGNORANCE expresses a triviality.

With that concern in mind, I believe the easiest way to get a theory-neutral grip on the canonical/non-canonical distinction is through examples. Taking a rough stab at a reasonably comprehensive taxonomy, here are the (non-canonical) uses of the indicative conditional that I believe call for the distinction in question:

First there are **echoing uses**, e.g.:<sup>15</sup>

- (9) If Pete's report is accurate, then Peggy is working at home. But we know Peggy never works from home, so Pete's report must be inaccurate.
- (10) If Dave is here, Roger is at home. Dave is here, so Roger is at home.

Echoing uses tend to occur in circumstances in which the speaker is *rehearsing* (echoing) her evidence for various propositions she takes herself to have settled: in this case either the negation of the conditional's antecedent, as in (9), or the conditional's consequent, as in (10). More generally, echoing uses occur in what one might think of as "dialectical" contexts—situations in which one is trying to give an argument for a known conclusion, or in which one is trying to reason one's way from known premises to a (soon to be) known conclusion. Consequently, a simple test for identifying an echoing use of  $\lceil \text{If } p, q \rceil$  in the wild is to ask whether in the same context a followup assertion of  $\lceil p; \text{ so } q \rceil$  or  $\lceil \neg q; \text{ so } \neg p \rceil$  would be appropriate; if and only if it would be are you dealing with an echoing use of  $\lceil \text{If } p, q \rceil$ .

Second there are **Dutchman uses**, e.g.:

- (11) If Jeremy goes to the gym twenty hours a week, then I'm a Dutchman.
- (12) If Emily can afford to quit her job, then I'm a monkey's uncle.

Dutchman uses are essentially just echoing uses with flair. They are used to communicate the negations of their antecedents.

And third, there are **Concessive uses**, e.g.:

- (13) I know I cannot afford this timeshare. But even if I'm wrong about that, I still don't want to buy it.
- (14) I am not lying about where I live. And even if I am, you're not going to get a different answer from me.

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<sup>15</sup> I get the 'echoing' label from [Dorr & Hawthorne \(2013, pp. 890-91\)](#).

Concessive uses of ‘If  $p$ ,  $q$ ’ tend to occur in circumstances in which the speaker has settled that  $\neg p$  and  $q$ , but knows that it is unlikely that her audience will take her to know whether  $\neg p$ . In light of this the speaker must settle for a “backup” position,  $q$ . In these circumstances a speech like ‘ $\neg p$ ; but even if  $p$ ,  $q$ ’ can seem perfectly natural. Consequently, a simple test for identifying a concessive use of ‘If  $p$ ,  $q$ ’ in the wild is to ask whether the use is occurring in a conversational context in which the speaker can expect her interlocutors to take her to know the things she asserts; if and only if the speaker *can’t* expect to be trusted to know whether  $p$  if she were to assert  $p$  are you likely dealing with a concessive use of ‘If  $p$ ,  $q$ ’.

Three quick observations about this taxonomy. First, as concerns the purposes of this paper, it is basically comprehensive.<sup>16</sup> Second, it should be clear that none of these uses typically implicates that the speaker is ignorant of the truth value of the conditional’s antecedent. In fact it is plausible that the opposite is implicated—i.e., that the speaker *knows* whether the antecedent is true. Third and most importantly, setting aside complaints about which uses of the conditional deserve the honorific ‘canonical’, there is an obvious difference between how the conditional is used in each of these cases and how it is used in the natural contexts associated with (2)-(8). One doesn’t need a theory of the difference to be able to see it, and it should not go unappreciated that these various non-canonical uses *have special labels*.

Those points aside, what seems to me to be in common to the various non-canonical uses of the indicative conditional is that they all arise in circumstances in which the usual pressure to assert the strongest propositions relevant to the topic of conversation has been superseded by other communicative pressures. In the circumstances in which echoing (and Dutchman) uses are natural, the primary concern is not with sharing one’s views on the topic, but with making explicit one’s evidence for one’s views on the topic. And in the circumstances in which concessive

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<sup>16</sup> There are two other categories of conditionals whose uses are typically non-canonical, but whose discussion I omit from the main text given their failure to pose any clear problem for IGNORANCE: *biscuit conditionals* and *donkey conditionals*. Examples of biscuit conditionals include:

- (15) There are biscuits on the sideboard if you want some.
- (16) If you’re interested James is playing at the Roadhouse tonight.

It should be clear that biscuit conditionals are unlike ordinary indicative conditionals, at least on the latter’s standard uses. But regardless of whether or not they are canonical, they are not counterexamples to IGNORANCE. It is just as strange to assert a biscuit when one knows whether its antecedent is true as it is to assert an ordinary indicative when one knows whether its antecedent is true. (See, e.g., DeRose & Grandy (1999) and Predelli (2009) for further discussion of biscuits.) Examples of donkey conditionals include:

- (17) If a farmer owns a donkey, he beats it.
- (18) If a cat has a hat, it wears it.

Mysteries abound with donkey conditionals—see, e.g., (King & Lewis, 2017) for an introduction. I will not pay much attention to them here, as it is not obvious they even count as indicative conditionals in the sense I am interested in (see footnote 13 above). But even if they are genuine indicatives, then as far I can tell they are just echoing conditionals, and so what goes for those goes for these. But even if *that’s* wrong, it should be clear that the conditionals of interest to this paper (to be introduced in §4) are relevantly dissimilar to conditionals like (17) and (18).

uses are natural, again the primary concern is not with sharing one's views on the topic, but with sharing the views that one expects one's uncooperative interlocutors will actually accept. By contrast, when one is in the kind of conversation where speakers are expected to just *tell* one another their views about the topic under discussion, one needn't worry about rehearsing inferential connections or hedging.

The natural thought, then, is that canonical uses of the indicative conditional arise in conversational circumstances in which it is expected that the participants assert what they can about the topic under discussion in a manner that meets an appropriate balance between informativeness and brevity. These are the sorts of conversational contexts theorists like [Grice \(1975\)](#) and [Gazdar \(1979\)](#) are trying to model the dynamics of. Whenever one is in a position to impart information to one's interlocutors and the question of whether  $q$  is relevant to the topic of conversation, one's assertion of 'If  $p$ ,  $q$ ' will implicate that one doesn't know whether  $p$ . If one knew that  $p$ , then one would have been doing more to further the purposes of the conversation to assert  $q$ ; if one knew that  $\neg p$ , then one would have done more to further the purposes of the conversation by asserting  $\neg p$  or a counterfactual conditional. Having asserted neither  $q$  nor  $\neg p$  nor a counterfactual conditional, one can expect one's listeners to infer that one doesn't know whether  $p$ . Conversational contexts shaped by other goals are certainly possible (perhaps even quite common), but the uses of the indicative conditional they give rise to are nonetheless non-canonical.

I conclude that the distinction between canonical and non-canonical uses is both natural and recognizable enough to leave the theoretical interest of IGNORANCE unscathed. For what IGNORANCE tells us is that if  $S$ 's assertion of 'If  $p$ ,  $q$ ' is appropriate in a context, then either it occurred in conversational circumstances shaped by non-standard communicative pressures, or by the lights of the context 'S knows whether  $p$ ' expresses a falsehood.

## 4 The argument against moderate invariantism

Having made the case for IGNORANCE in §2 and clarified the canonical/non-canonical distinction in §3, we can now turn to the argument against moderate invariantism about knowledge.

Recall that central to moderate invariantism about knowledge is the thesis that for a normal adult  $S$  in reasonably ordinary circumstances, 'S knows that  $P_n$ ' is true in *every* context when  $P_n$  is replaced with any of the following:

- (P<sub>1</sub>) S has hands.
- (P<sub>2</sub>) Donald Trump is the president of the United States.
- (P<sub>3</sub>) Oswald shot Kennedy.

With that in mind, let us say that an indicative conditional  $\lceil \text{If } p, q \rceil$  is a *conspiracy conditional* just in case its antecedent expresses one of the various propositions (or the negations thereof) the moderate invariantist takes normal people to context-invariantly know.

The colorful label is due to the paradigm case of such a conditional, which, thanks to [Adams \(1970\)](#), also happens to be a (philosophical) paradigm case of *the indicative conditional*:

- (1) If Oswald didn't shoot Kennedy, then someone else did.

The reason for (1)'s fame is that it makes for an excellent case study in the semantic differences between indicative and counterfactual conditionals—for compare (1), which is intuitively true, to its counterfactual analog (19), which is intuitively false:

- (19) If Oswald hadn't shot Kennedy, someone else would have.

Somewhat surprisingly, however, (1)'s philosophical fame more or less ends here. The fact that its naturalness is in tension with a popular package of views on knowledge and the pragmatics of indicative conditionals has gone largely unnoticed.<sup>17</sup> For again, *if* moderate invariantism and IGNORANCE are both true, then given that (1)'s antecedent is  $(P_3)$ , its only appropriate uses are non-canonical uses. We will get into the prospects of such a line in more detail in §5, but for now it suffices to say that (1) seems (on its most natural uses) both obviously appropriate and obviously canonical.

What makes (1) a conspiracy conditional is that its antecedent expresses a proposition the moderate invariantist takes us to know the truth of the matter of. In this case, we know that it is false. But it is just as easy to come up with a variant in which the antecedent is something the moderate invariantist takes us to know to be *true*, as in:

- (20) If Oswald shot Kennedy, then Kennedy really did die on November 22nd, 1963.

By definition, (20) is as much a conspiracy conditional as (1). And like (1), a canonical use of (20) would be perfectly appropriate in a variety of ordinary circumstances.

Conspiracy conditionals are by no means limited to conspiracies. Here are two others that seem fine out of the blue:

- (21) If Trump is still president of the United States, then he hasn't had a fatal heart attack in the past few moments.
- (22) If Trump is no longer the president of the United States, then it is surprising we haven't heard about that.

Likewise, suppose you're driving through the country side. In at least some contexts it would be perfectly normal to utter sentences like:

<sup>17</sup>The only exception I know of is [Gillies \(2004, p. 585\)](#), who mentions it once and then does not return to the issue.

- (23) If in a few hours the car breaks down, then we won't make it to our destination tonight.
- (24) If these barns are more than a few days old, then it is unlikely we are driving through a movie set.

Given the assumption that we're typically in a position to know where we'll be in a few hours (at least absent good reason to expect that something will go wrong) and that barns we pass by on our way through the country have been around for more than a few days, we get further violations of IGNORANCE from the conspiracy conditionals (23)–(24).

The same can be said for standard cases of knowledge through testimony. If you read in the newspaper that Federer defeated Murray in straight sets, then in at least some contexts it would be perfectly natural for you to express thoughts as:

- (25) If Federer defeated Murray in straight sets, then this report is accurate.
- (26) If Federer didn't defeat Murray in straight sets, then this report is inaccurate.

Finally, philosophical subject matters are a rich source of conspiracy conditionals:

- (27) If you're in the good case, then you're not a handless BIV.
- (28) If you don't know you have hands, then you're in the bad case.
- (29) If nature is uniform, then induction is a reliable means of forming true beliefs.
- (30) If the next time I drop this pen it floats in the air instead of falling, then either it's a very special pen or nature may not be so uniform after all.

But again, if we know anything by the moderate invariantist's lights, then we know that we know we have hands and that pens fall when they are dropped.<sup>18</sup>

Here is the upshot. We have reason to believe IGNORANCE is true and that each of the above conspiracy conditionals is assertable in the canonical way in at least some contexts. Moderate invariantism tells us that if 'S knows whether p' expresses a false proposition in one context, then it expresses a false proposition in every context. And IGNORANCE tells us that if S's canonical assertion of 'If p, q' is appropriate in one context, then the proposition expressed by 'S knows whether p' is false in that context. So IGNORANCE plus the facts about conspiracy conditionals

<sup>18</sup> One philosophical case I find particularly sharp draws on some recent papers (cited below) on epistemic puzzles concerning unobserved tosses of fair coins. Suppose you know a fair coin is about to be flipped 1,000 times. Supposing the distribution of heads/tails *in fact* ends up being relatively normal, do you know prior to the coin's being flipped that it won't land heads all 1,000 times? There are persuasive arguments suggesting that the moderate invariantist must say 'Yes'—see, e.g., (Bacon, 2014, §1) and (Dorr *et al.*, 2014). Supposing these arguments are sound, it follows that these indicatives are conspiracy conditionals:

- (31) a. If this fair coin lands heads 1,000 times in a row, then most onlookers will be quite confident that the coin is double-headed.
- b. If this fair coin doesn't land heads 1,000 times in a row, then anyone who bet that it would will lose some money.

look to eliminate large swaths of what the moderate invariantist takes us to know. That is the paper's core argument against moderate invariantism.

I see three ways the moderate invariantist could respond. First, accept IGNORANCE as stated and argue that the appropriate uses of conspiracy conditionals are invariably non-canonical. Second, reject IGNORANCE in favor of a non-knowledge-centric theory of the pragmatics of indicative conditionals. Or third, again accept IGNORANCE as stated, but give an error theory of our inclination to judge appropriate canonical uses of conspiracy conditionals. Each of these replies will be critically assessed in §§5, 6, and 7 respectively.<sup>19</sup>

## 5 Must conspiracy conditionals be non-canonical?

Supposing the felicitous uses of conspiracy conditionals are *always* non-canonical, then IGNORANCE in combination with our judgments about those uses is no threat to the moderate invariantist's theory of knowledge. How might one defend this supposition? First, one could try to assimilate the relevant uses of conspiracy conditionals with the *canonically* non-canonical uses of the indicative conditional. That is to say, one could try and classify the natural uses of §4's conspiracy conditionals as kinds of echoing, Dutchman, or concessive uses. Alternatively, one could argue that conspiracy conditionals give rise to a *sui generis* kind of non-canonical use of the indicative conditional—a yet further exception to the general prohibition on asserting conditionals whose antecedents are known. I will argue that neither option is plausible.

### 5.1 Conspiracy conditionals as canonically non-canonical

Beginning with the first option, should we think that the natural uses of conspiracy conditionals are always echoing, Dutchman, or concessive uses?

The short answer is: No, we shouldn't. With only minimal amounts of reflection one should be able to see that ordinary uses of (e.g.)

- (1) If Oswald didn't shoot Kennedy, then someone else did.
- (26) If Federer didn't defeat Murray in straight sets, then this report is inaccurate.

are not invariably echoing, Dutchman, or concessive uses. This is not to say they *can't* be. No one should deny that the same conditional can be used in all sorts of different ways. It's just that there are plenty of normal contexts in which, intuitively, one's intention in asserting a conditional like (1) or (26) is to tell one's interlocutors something informative about the subject of conversation, rather than to present evidence for what one knows or accommodate their distrustfulness.

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<sup>19</sup> Perhaps a fourth option is to take "treating the question whether  $p$  as closed" to be a necessary condition on knowing that  $p$ , and to then argue that speakers who assert conspiracy conditionals (in the canonical way) typically fail to satisfy this condition, despite their underlying evidence and beliefs and what not. The arguments of §§7–8 will apply to this possible response as well.

Reflection on a case will help sharpen the point. Start with our paradigm conspiracy conditional:

(1) If Oswald didn't shoot Kennedy, then someone else did.

It goes without saying that (1) is not ordinarily used as a Dutchman. Must it be used in an echoing or concessive manner? Well, given that Oswald shot Kennedy (and that we context-invariantly know as much according to moderate invariantism), if it is to be used in an echoing way it has to be in something like a modus tollens arguments for the negation of its antecedent—i.e., for the conclusion that Oswald *did* shoot Kennedy. But such an argument looks baffling:

If Oswald didn't shoot Kennedy, then someone else did. We know that someone else didn't shoot Kennedy. ?? Therefore, Oswald shot Kennedy.

It is hard to imagine circumstances in which this reasoning accomplishes anything. Again, this is not to say that there are *no* possible circumstances in which it does—surely some could be conjured up. The point is just that the typical circumstances in which one would be inclined to assert or otherwise endorse (1)—like those first encounters with the example early in one's philosophical career—one will almost surely not be doing so in this way. It is thus not plausible that the default uses of (1) are echoing uses.

Concessive uses of (1) are more palatable. This is because a concessive use of (1) will be appropriate whenever one's interlocutors will not accept that you know Oswald shot Kennedy, but will accept that you know that *someone* did—circumstances which are not particularly difficult to imagine. But what is difficult to imagine is that these are the *only* circumstances in which an assertion of (1) is appropriate. In deciding to assert (1), one needn't think something like 'Well of course *I* know that Oswald shot Kennedy, but since these people won't believe me I'll have to settle for "If Oswald didn't shoot Kennedy, then someone else did"'. No—*pace* the error theories to be discussed in §7—all goes perfectly well if one thinks 'I'm not sure whether Oswald shot Kennedy; but what I am sure of is that if Oswald didn't, someone else did' or 'Hmm—if Oswald didn't shoot Kennedy, then someone else did. I wonder who else might have shot him...' or what have you. The corresponding uses look to be straightforwardly canonical.

I will spare the reader similar analyses of the other examples discussed in §4. The analysis of the Oswald conspiracy conditionals should be enough to establish high confidence in this subsection's modest thesis: that the felicitous uses of conspiracy conditionals need not be (and often are not) among the familiar non-canonical uses of the indicative conditional. If they are deserving of some special non-canonical status, it must be of a *sui generis* kind.

## 5.2 Conspiracy conditionals as non-canonically non-canonical

A proponent of this style of response has it that §3's taxonomy of non-canonical uses of the indicative conditional is incomplete: in addition to **echoing**, **Dutchman**, and **concessive** uses,

there are also **conspiratorial** uses, or whatever you want to call them.

What's the argument in favor of expanding the domain of non-canonical uses of the indicative conditional to cover the natural uses of conspiracy conditionals? Well, presumably, it's that we want both IGNORANCE and moderate invariantism to be true, and we can't have that unless the natural uses of conspiracy conditionals form their own category of non-canonical use.

Aside from its dialectical awkwardness, I think there are strong reasons to be suspicious of this line of thinking. A unifying thread among the familiar kinds of non-canonical uses of the indicative conditional is that each has a *pragmatic* explanation for its existence. Echoing uses arise because sometimes it's important that speakers highlight inferential connections; Dutchman uses are just echoing uses with sarcasm; and concessive uses arise because sometimes speakers have to deal with interlocutors that are insufficiently trusting.

But the plausible explanations of the existence of conspiratorial uses cannot be like this. And that's because conspiracy conditionals may be used felicitously even in situations in which all the standard pragmatic pressures are present—pressures to assert the strongest thing you are in a position to assert, keep it brief, etc. As far as I can tell, then, the story that explains what makes the natural uses of conspiracy conditionals non-canonical will have to be an *epistemic* one. And the problem with such a story is that it is unclear what distinguishes (i) a view that says there are uses of the indicative conditional that are non-canonical because they arise in contexts with non-standard *epistemic* (rather than pragmatic) constraints on assertion from (ii) a view that says that there are uses of the indicative conditional that are counterexamples to IGNORANCE. One who accepts the former but denies the latter risks trivializing IGNORANCE by turning it into a principle that says that conditionals with known antecedents are assertable except when they're not.

If the moderate invariantist wants to stay in the business of taking our judgments about conspiracy conditionals at face value, then rather than invent *ad hoc* categories of non-canonical uses of the indicative conditional, she should simply take these conditionals to show that IGNORANCE is false. If it is non-negotiable that the proposition expressed by 'S knows whether p' is true in every context, and if nonetheless there are contexts in which S may appropriately assert 'If p, q' in exactly the same manner she may assert any other ordinary indicative conditional, then—contra IGNORANCE—there must be no *general* prohibition on asserting 'If p, q' in the canonical way when you know whether p.

## 6 Replacing IGNORANCE?

Assuming error theories of our judgments about the felicitous assertion of conspiracy conditionals are off the table, the moderate invariantist must reject IGNORANCE.

One way of doing this is to deny that *any* generalization in the vicinity of IGNORANCE is correct. But I don't think this is a promising way of going. The view has no means of accounting

for the empirical and theoretical considerations that compelled us to posit it in the first place.

So if one wants to reject IGNORANCE, one's best bet is to accept the following placeholder principle, but deny that 'open' is to be understood along the lines of 'compatibility with what is known':

**OPENNESS** In every context  $c$ : If  $\ulcorner$ It isn't open for  $S$  whether  $p\urcorner$  is true in  $c$ , then  $\ulcorner$ It is inappropriate for  $S$  to assert 'If  $p, q$ ' in the canonical way $\urcorner$  is true in  $c$ .

This section will look at three theories of the *being open* relation, and assess whether they let OPENNESS give a satisfactory explanation of the considerations §2 raised in favor of IGNORANCE. They are: (i) theories that take the underlying epistemic relation to be invariantly something like *belief*, (ii) theories that take the underlying epistemic relation to be invariantly something like *certainty*, and (iii) theories that give 'is open' a contextualist semantics distinct from the semantics of 'knows'. In each case it will be argued that a knowledge-theoretic conception of OPENNESS is preferable to the alternative.

## 6.1 Against belief-theoretic conceptions of openness

On a belief-theoretic conception of openness, a proposition  $p$  is open to  $S$  just in case  $S$  neither believes  $p$  nor  $\neg p$ . Understood in this way, OPENNESS says that whenever one believes that  $p$ , one should assert neither  $\ulcorner$ If  $p, q\urcorner$  nor  $\ulcorner$ If  $\neg p, q\urcorner$ .<sup>20</sup>

The problems with the belief-theoretic conception of OPENNESS are straightforward. First, on most standard views of knowledge,  $S$ 's knowing that  $p$  entails  $S$ 's believing that  $p$ . So if contexts in which  $S$ 's assertion of the conspiracy conditional  $\ulcorner$ If  $p, q\urcorner$  is appropriate are contexts in which  $S$  fails to believe either that  $p$  or that  $\neg p$ , then on any of these accounts of knowledge,  $S$  will automatically fail to know whether  $p$  too. The problem for the moderate invariantist thus persists.

Second, the view that  $p$  is open to  $S$  iff  $S$  neither believes that  $p$  nor that  $\neg p$  is empirically inadequate. This is because sentences of the form  $\ulcorner$ I believe that  $p$ , but if  $\neg p, q\urcorner$  sound perfectly natural, while sentences of the form  $\ulcorner$ I know that  $p$ , but if  $\neg p, q\urcorner$  and  $\ulcorner$  $p$ , but if  $\neg p, q\urcorner$  sound terrible:

- (32) a. I believe that Jim is at home listening to *The Mollusk*, but if he's at the office then he probably isn't listening to music at all.  
b. ?? I know that Jim is at home listening to *The Mollusk*, but if he's at the office then he probably isn't listening to music at all.  
c. ?? Jim is at home listening to *The Mollusk*, but if he's at the office then he probably isn't listening to music at all.

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<sup>20</sup> It is to be implicit through this section that unless stated otherwise we are restricting attention to canonical uses of the indicative conditional.

Given a belief-theoretic implementation of OPENNESS, (32a) should have the feel of its (b-c) counterparts, when in fact it seems perfectly fine.

The lesson to take from this is that epistemic relations that are (generally) *weaker* than knowledge will fail to give the moderate invariantist the conception of OPENNESS she wants. This should come as no surprise: the phenomenon made salient by conspiracy conditionals is that there are some contexts in which one has to do *more* than know a proposition or its negation to get the infelicity of the relevant conditional.

## 6.2 Against certainty-theoretic conceptions of OPENNESS

With this point in mind, a natural idea is to use an epistemic relation that is stipulated to be stronger than knowledge to determine which possibilities are open for a subject. Let us use *certainty* as a placeholder for such a relation, intending that its interpretation be left as something of a black box. What matters is just that the kinds of propositions to which we stand in the certainty relation are generally quite limited—i.e., that an ordinary person *S* is *not* certain of the propositions expressed by sentences like:

(P<sub>1</sub>) *S* has hands.

(P<sub>2</sub>) Donald Trump is the president of the United States.

(P<sub>3</sub>) Oswald shot Kennedy.

On the assumption that an ordinary adult is not certain of any of (P<sub>1</sub>)–(P<sub>3</sub>), it is straightforward to see how, given OPENNESS, the corresponding conspiracy conditionals could be appropriately assertable in the canonical way.

But now a new challenge arises. Unless the proponent of the certainty-theoretic conception of openness wants to defend a highly revisionary theory of the norms of assertion—one that says that with the exception of tautologies and the like no one has ever asserted anything properly—she better predict that sentences like (P<sub>1</sub>)–(P<sub>3</sub>) are sometimes (indeed often) assertable. Consequently, she must reject:

**ASSERTION** In every context *c*: If  $\lceil$ It is epistemically appropriate for *S* to assert that *p* $\rceil$  is true in *c*, then  $\lceil$ It isn't open for *S* whether *p* $\rceil$  is true in *c*.

This is because on the certainty view, *not being open* is an extremely demanding epistemic relation, one that a normal person will context-invariantly fail to stand in to the propositions expressed by (P<sub>1</sub>)–(P<sub>3</sub>). And this in turn means she can't get:

**COORDINATION** In every context *c*: If  $\lceil$ It is epistemically appropriate for *S* to assert that *p* $\rceil$  is true in *c*, then  $\lceil$ It is inappropriate for *S* to assert 'If  $(\neg)p$ , *q*' in the canonical way $\rceil$  is true in *c*.

What COORDINATION says, in words, is that whether it is appropriate to assert an indicative conditional in the canonical way depends on whether you are (epistemically) in a position to assert its antecedent unembedded.

The issue is that without COORDINATION, the proponent of the certainty-theoretic conception of OPENNESS has no clear explanation of the badness of the following conjunctions:

- (33) It's a known fact that Oswald shot Kennedy. ?? But if he didn't shoot Kennedy, then someone else did.
- (34) I'll hit a kick serve out wide next point. ?? If I have hands, then I'll make sure to put extra top spin on it.
- (35) Tomorrow we're going to the White House to see Trump speak. ?? If there is a president of the United States, then tomorrow we'll see the president speak.

If the norms governing canonical uses of the indicative conditional are autonomous in respect to the norms governing assertion more broadly, then there is no principled reason to expect the assertability of  $p$  to tell against the assertability of  $\lceil \text{If } (\neg)p, q \rceil$ . And yet there appears to be no single context in which one is permitted to assert both  $p$  and  $\lceil \text{If } (\neg)p, q \rceil$ .<sup>21</sup> To account for this fact, the proponent of the certainty-theoretic conception of OPENNESS will have to posit the existence of a principle that replicates the intended effects of COORDINATION by fiat. The underlying phenomenon cries out for a better explanation.

### 6.3 Contextualism about openness

If one wants take seriously our ordinary judgments about the assertion of conspiracy conditionals and their bare antecedents, one needs COORDINATION, which in turn implies that one is going to have to be a *contextualist* about whatever relation gets plugged into OPENNESS.<sup>22</sup> If the relation is invariant and stricter than knowledge, then although we can explain why conspiracy conditionals sometimes sound good, we cannot explain why they sometimes sound bad. And if the relation is invariant but no stricter than knowledge, then although we can explain why conspiracy conditionals sometimes sound bad, we cannot explain why they sometimes sound

<sup>21</sup> To be clear, it is not impossible to hear (33)–(35) as sounding okay, at least given the right contextual setup and/or linguistic focus. But this does not change the fact that these constructions *tend* to sound quite bad, and that if COORDINATION were false, there should be no such tendency.

Besides, given that it is generally possible to shift the context mid-sentence, the existence of good readings of (33)–(35) is as unsurprising as the existence of good readings of sentences like (36) and (37):

- (36) Kansas is flat, but it's not *flat*.
- (37) Even if I don't *know* that I have hands, I obviously know that I do.

<sup>22</sup> This may be too quick. Nothing that has been said so far rules out that a *sensitive invariantist* conception of knowledge (e.g., that of Hawthorne (2004) or Stanley (2005)) could combine with IGNORANCE to deliver COORDINATION and our intuitive judgments about conspiracy conditionals. The argument against that package of views will come in §8.

good. So the relation needs to vary from context to context. Thus, if one thinks that the best versions of OPENNESS and ASSERTION are knowledge-theoretic—i.e., if one likes IGNORANCE and KNA:

**IGNORANCE** In every context  $c$ : if  $\lceil S$  knows whether  $p \rceil$  is true in  $c$ , then  $\lceil$ It is inappropriate for  $S$  to assert the indicative conditional ‘If  $p$ ,  $q$ ’ in the canonical way $\rceil$  is true in  $c$ .

**KNA** In every context  $c$ : If  $\lceil$ It is epistemically appropriate for  $S$  to assert that  $p \rceil$  is true in  $c$ , then  $\lceil S$  knows that  $p \rceil$  is true in  $c$ .

—then one is going to have to be a contextualist about knowledge, and *ipso facto* not an invariantist. Otherwise one is going to have to find some other context-sensitive notion to play the *being open* role.

So: supposing contextualism about knowledge is off the table—as it obviously is for the moderate invariantist—what are the prospects of finding a contextualist, non-knowledge-centric notion capable of delivering both OPENNESS and ASSERTION?

### 6.3.1 Openness in terms of common ground

One tempting line here is to connect openness to the notion of the *common ground*: the set of possibilities consistent with all that has been mutually presupposed and asserted by a context’s conversational participants.<sup>23</sup> On this view, a proposition  $p$  is open in a context  $c$  iff neither  $p$  nor  $\neg p$  is entailed by the conversational common ground associated with  $c$ . So given OPENNESS, the assertion of an indicative conditional  $\lceil$ If  $p$ ,  $q \rceil$  is appropriate in  $c$  only if the answer to the question of whether  $p$  is not common ground in  $c$ . The facts about which propositions are common ground is a context-sensitive matter. And assuming that an assertion of  $p$ , if accepted, has the effect of making  $p$  common ground, then it is straightforward to see why an assertion of  $\lceil p$  but if  $\neg p$ ,  $q \rceil$  or  $\lceil p$  and if  $p$ ,  $q \rceil$  would always seem inappropriate (when made in the canonical way). So the common ground view appears to avoid the problems that beset the belief and certainty-theoretic interpretations of OPENNESS.

Despite its intuitive appeal, however, the common ground-theoretic account of OPENNESS faces some severe challenges. For starters, it fails to explain some of even the most basic data motivating generalizations like OPENNESS. Here I have in mind examples like (2) (‘If I had a bagel for breakfast this morning, then I went out for brunch with Jim’). As was argued in §2, an assertion of (2) will in most ordinary contexts be puzzling. But there should be nothing strange about it by the lights of the common ground interpretation of OPENNESS, since both the antecedent and its negation are compatible with the common ground.

Similarly, the view fails to explain the badness of speeches of the form  $\lceil$ I know whether  $p$ . If  $(\neg)p$ ,  $q \rceil$ . Consider, e.g.:

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<sup>23</sup> The vague characterization just given suffices for present purposes, but see, e.g., [Stalnaker \(1999, 2002\)](#) and the citations therein for discussion.

- (38) I know whether Oswald shot Kennedy. ?? If Oswald shot Kennedy, then he probably acted alone.
- (39) I know whether Trump is the president. ?? If Trump isn't the president then Pence is.

There seems to be no context in which either (38) or (39) is felicitous. So it better be that an assertion of 'S knows whether p' has the effect of making an assertion of 'If (¬)p, q' inappropriate. But since an assertion of 'S knows whether p' adds neither  $p$  nor  $\neg p$  to the common ground, it's not clear why, according to the common ground-theoretic conception of OPENNESS, there should be any impropriety at all.

Of course, OPENNESS is only meant to provide a *necessary* condition on the assertability of an indicative conditional. So the fact the common ground-theoretic interpretation of OPENNESS cannot explain the badness of (2) or of (38)–(39) is not itself enough to show there is anything wrong with that interpretation. But what *would* be enough to show that there is a problem with that interpretation would be to show the difficulty of finding other principles capable of doing the work that OPENNESS can do when 'is open' is interpreted as 'knows'.

This turns out to be quite difficult indeed. Aside from IGNORANCE, what principle can the proponent of the common ground view appeal to to explain the badness of either (2) or (38)–(39)? Her best bet seems to be something like the following:  $S$ 's (canonical) assertion of 'If  $p$ ,  $q$ ' is inappropriate just in case: *were*  $S$  to assert  $p$  (or  $\neg p$ ), the proposition  $p$  (or  $\neg p$ ) would become common ground.

Now, there's a sense in which this proposal works for (2):<sup>24</sup> it is plausible that the proposition that I had a bagel for breakfast this morning would have become common ground had I asserted 'I had a bagel for breakfast this morning', and so given the proposal we have reason to expect an assertion of (2) to seem inappropriate.

But it should also be clear that the proposal is only superficially helpful. What is it about the proposition that I had a bagel for breakfast this morning that makes it so that if I were to assert it, it would be added to the common ground? Certainly not all propositions are like this. So the proposal raises the more general question of under what conditions a speaker  $S$  is related to a proposition  $p$  such that: *were*  $S$  to assert  $p$ ,  $p$  would become common ground. And any plausible answer to this question will start by invoking some kind of epistemic standard  $E$ , and then go on to claim that interlocutors will accept  $S$ 's assertion that  $p$  just in case they take  $S$ 's epistemic state to meet  $E$  with respect to  $p$ .<sup>25</sup> So now the overall view is:  $S$ 's assertion of 'If  $p$ ,  $q$ ' is inappropriate just in case: either (i)  $p$  is common ground, or (ii) with respect to the question of whether  $p$ ,  $S$ 's epistemic position meets  $E$ . And supposing (uncontroversially) that a necessary condition on a proposition's *already* being in the common ground is that it passes whatever test a proposal to update the common ground must pass, then the view is equivalent to:  $S$ 's assertion

<sup>24</sup> It's not at all clear it works for (38)–(39), but the objection I'm about to make to its treatment of (2) will get at the same fundamental problem in a simpler way.

<sup>25</sup> As suggested by the discussion in §2,  $E$  pretty clearly tends to be knowledge. But we can set that aside for now.

of  $\ulcorner \text{If } p, q \urcorner$  is inappropriate just in case: with respect to the question of whether  $p$ ,  $S$ 's epistemic position meets  $E$ . And this is simply COORDINATION with the stipulation that 'is open' is to be analyzed in terms  $E$ . The common ground interpretation of OPENNESS does nothing other than replace one placeholder notion ('is not open') with another ('meets the standards required to enter the common ground').

In short: best case scenario, the common ground-theoretic conception of OPENNESS tells us why an indicative conditional will be inappropriate to assert when the answer to the question of whether its antecedent is true is already common ground. But it tells us nothing about the conditional's assertability when it is not. And filling in this gap has the effect of making the appeal to common ground superfluous. The real work is done by whatever epistemic standards interlocutors apply when deciding whether to add a new proposition into the common ground, not the facts about the common ground itself.

### 6.3.2 Epistemic contextualism about openness

The lesson we learned from the discussion of the belief- and certainty-theoretic conceptions of OPENNESS is that 'is open' is context-sensitive. And the lesson we just learned from the discussion of the common ground-theoretic conception is that it must be tied to epistemic standards of some sort of other. Thus, to avoid the argument for contextualism about knowledge, the moderate invariantist will need to find some a context-sensitive epistemic notion other than 'knows' to use in place of 'is open'. This forces her to choose between two options, broadly construed: either (i) connect the judgments that motivate generalizations like IGNORANCE and KNA to *familiar* context-sensitive epistemic notions other than 'knows'; or (ii) take it is an unanalyzed primitive. I will conclude this section with two worries—one empirical, one conceptual—that apply regardless of whether one goes with (i) or (ii).

The empirical worry is that by severing the connection between 'knows' and 'is open' (and *ipso facto* denying principles like IGNORANCE and KNA), it will be difficult to explain quite a lot of the intuitive data that compelled us to posit those principles in the first place. If there is not some general principle to the effect of  $\ulcorner \text{Assert } p \text{ only if you know that } p \urcorner$ , then what explains the naturalness of certain stock challenges to assertions, e.g.: 'How do you know that?', 'You don't know that', etc.? Likewise: as was observed in §2, when someone (say  $S$ ) asserts  $\ulcorner \text{If } p, q \urcorner$  in a situation in which we are inclined to accept the truth of  $\ulcorner S \text{ knows whether } p \urcorner$ , there is an inclination to respond with puzzlement along the lines of:  $\ulcorner \text{What do you mean if } p? \text{ Don't you know whether } p? \urcorner$ . Note that this is exactly what happens in the case of (2) ('If I had a bagel for breakfast this morning, then I went out for brunch with Jim'): it is because we take people to *know* what they had for breakfast that morning that an assertion of a conditional beginning 'If I had a bagel for breakfast this morning...' strikes us as bizarre. Is this pattern of judgments the result of a mistake? Or does it just so happen that by coincidence, whatever epistemic relation is denoted by 'is open' in standard contexts is the same as (or suitably related to) the one denoted

by ‘knows’?

The conceptual worry is more of a *tu quoque* against the moderate invariantist; but given that she more than anyone has reason to want to deny principles like IGNORANCE, having it on the table will help clarify some of IGNORANCE’s attraction. The worry is this. One who gives a theory of the ‘is open’ of OPENNESS and COORDINATION in terms of something other than ‘knows’ must reject a hypothesis many moderate invariantists are likely to find antecedently appealing. It is the hypothesis that *knowledge* is what determines (e.g.) the norms of assertion and the implicatures of indicative conditionals. In rejecting this hypothesis, the moderate invariantist robs the concept of knowledge of much of its explanatory attractiveness. Worse, in positing this basic yet (apparently) deeply engrained epistemic notion, the moderate invariantist faces a renewed threat from all sorts of other knowledge-obviating views. Given that *not being open*—whatever that amounts to—is what governs assertion and the pragmatics of indicative conditionals, one might wonder whether it could have a similar role in explaining our judgments about (e.g.) evidence and action. Better to tie principles like OPENNESS and ASSERTION to a contextualist account of ‘knows’, and thereby allow knowledge to maintain much of its explanatory power.

## 7 An error theory about conspiracy conditionals?

Let’s take stock. §4 observed that conspiracy conditionals seem appropriately assertable in a variety of ordinary contexts, and then pointed out that if moderate invariantism is to avoid being sunk by this fact, then either: (i) conspiracy conditionals are never assertable in the canonical way; (ii) some principle other than IGNORANCE is better suited to capture the generalizations outlined in §2; or (iii) our judgments about conspiracy conditionals are systematically mistaken: though they *seem* appropriately assertable, in fact they are not. We know from §5 and §6 respectively that (i) and (ii) are false. So the moderate invariantist’s only remaining bet is (iii).

With respect to (iii), the task of explaining away ordinary judgments about knowledge is familiar territory for the moderate invariantist. It is well known that the facts about our ordinary judgments about knowledge *ascriptions*—sentences of the form ‘ $S$  knows whether  $p$ ’—are at least somewhat in tension with the moderate invariantist’s semantics. Accounting for these facts has forced her to develop error theories. One might wonder whether those same error theories could (and if so, should) be called upon to explain our intuitions about conspiracy conditionals. This section will argue that they cannot, and in fact that it is plausible that *no* error theory of our intuitive judgments about conspiracy conditionals can. As such, (iii) will be shown to be an invariable option, thereby completing the argument against moderate invariantism.

### 7.1 The old dialectic

Let’s say that the *purely epistemic* factors that go into determining whether a subject  $S$  knows a proposition  $p$  are exhausted by  $S$ ’s beliefs and evidence—where ‘evidence’ is to be understood

in an intuitive, theory-neutral way—as well as the truth of the matter about  $p$ .<sup>26</sup>

As is well known, there can be pairs of situations that agree on the purely epistemic factors relevant to the relationship between a subject  $S$  and proposition  $p$ , and yet in which the truth of the *knowledge ascription* ‘ $S$  knows that  $p$ ’ is nonetheless judged to differ.<sup>27</sup> For example, it is not at all difficult to find contexts in which for any of  $(P_1)$ - $(P_3)$ , intuitively ‘ $S$  knows that  $(P_n)$ ’ is true. However, it is also not at all difficult to find contexts in which *holding the purely epistemic facts about  $S$  fixed*, it is the negation of ‘ $S$  knows that  $(P_n)$ ’ that is intuitively true. Contexts in which the following are natural tend to do the trick:

- (40) Unless  $S$  has discovered some way of proving that she isn’t a handless BIV,  $S$  doesn’t know that she has hands.
- (41)  $S$  doesn’t know that Trump hasn’t had a fatal heart attack in the past few moments, so  $S$  doesn’t know that Trump is still the president of the United States.
- (42) There are too many unanswered questions surrounding Oswald’s involvement in Kennedy’s assassination for  $S$  to know for sure that Oswald shot Kennedy.

Thus, marginal cases aside, the following empirical fact is common ground to those who theorize about knowledge: that there can be pairs of situations in which all the purely epistemic factors relevant to  $S$  and  $p$  are fixed and in which the truth of the knowledge ascription ‘ $S$  knows that  $p$ ’ is judged to vary by competent speakers of the language. By extension, it is common ground that’s one theory of knowledge must account for this fact. This is not to say that it must codify it into the semantics for ‘knows’ itself; it’s just that if the theory takes competent speakers to be judging or speaking falsely, it better explain why this happens.

Enter the moderate invariantist’s error theory. The first half of the error theory is the empirical half. It identifies some psychological mechanism—which we’ll call  $X$ —and observes that the presence of  $X$  correlates systematically with a tendency to deny the ascriptions that, by the lights of the theory, ought in every context be affirmed. The second half is the exculpatory half. It provides reasons to believe that the presence of  $X$  explains these variations in a way that relieves the pressure to have one’s semantics for ‘knows’ account for them.

What is  $X$ , the mechanism the error theory finds predictive of the variations it seeks to explain away? There are, in general, two kinds of sub-mechanisms discussed in the literature: *stakes* and *salience*.<sup>28</sup> Both can be further broken down into cases affecting the ascriber ( $A$ ) and cases

<sup>26</sup> Supposing we want the difference between Gettiered and non-Gettiered subjects to count as “purely epistemic” (which I take to be the presumptive view), facts about the etiology of  $S$ ’s belief and perhaps the hostility of her environment will probably have to factor in too. But for our purposes it is safe to ignore these complications.

<sup>27</sup> For just a small sampling of the massive literature on this phenomenon, with a particular focus on work that offers ordinary language evidence in favor of variants to moderate and skeptical invariantism, see, e.g., Austin (1946); Cohen (1986); Lewis (1996); Cohen (1999); DeRose (1992, 1995, 2002); Hawthorne (2004); Schaffer (2005b, 2007); Stanley (2005); Schaffer & Szabo (2013).

<sup>28</sup> The literature here is truly massive. See, e.g., Rysiew (2001); Fantl & McGrath (2002, 2009); Hawthorne (2004, §4.2); Bach (2005); Schaffer (2005a); Williamson (2005); Stanley (2005); Adler (2006); McGrath (2007); Nagel (2008, 2010); May *et al.* (2010); Reed (2010); Weatherson (2012); Buckwalter & Schaffer (2015); Roeber (2018).

affecting the subject (*S*).<sup>29</sup> This gives us four factors in total: what the stakes are for *A*, what the stakes are for *S*, what's salient to *A*, and what's salient to *S*. We'll say more about what these factors amount to in a moment. For present purposes it is enough if one's understanding of the nature of these mechanisms is mostly exhausted by one's knowledge of the ordinary meaning of the words 'stakes' and 'salience'.

The *empirical* half of the error theory says that as you vary the stakes or what's salient (perhaps for *A*, perhaps for *S*), you should expect *A*'s judgments about the truth of 'S knows that *p*' to vary. In particular, as what is at stake on whether *p* becomes higher, and as (metaphysical) possibilities in which  $\neg p$  become more salient (again perhaps to *A*, perhaps to *S*), *A* will become more inclined to judge that 'S knows that *p*' is false.

The *exculpatory* half of the error theory then argues that we have reason to expect that these sorts of variations in stakes and salience should cause *errors* in ordinary attributions of knowledge. For two prototypical examples of this half of the error theory (as well hints about the nature of stakes and salience), see [Williamson's \(2005, p. 226\)](#) line:

[Possibilities of error] may be psychologically salient because the practical costs of error are high for the subject or the ascriber, or simply because they have been evoked in vivid and convincing detail. One effect of fictional violence on television is to make viewers overestimate their chances of being the victims of violent crime: they suffer an illusion of danger. Might not an illusion of epistemic danger result from exposure to lurid stories about brains in vats, evil demons, painted mules, or gamblers who bet the farm?

As well as [Hawthorne's \(2004, p. 164\)](#):

[Psychologists] emphasize the role played by the 'availability' heuristic as a distorting influence on our judgments of risk: in many cases, our estimation of the likelihood of an event is affected by the ease with which we can recall or imagine it...Applied to the issue at hand, the availability heuristic may help to explain our tendency to skeptical overprojection. When certain non-knowledge-destroy counterpossibilities are made salient, we overestimate their real danger; as a result, we may find ourselves inclined to deny knowledge to others in cases where there is in fact no real danger of error.<sup>30</sup>

So, to summarize: the moderate invariantist's error theory of our intuitions about knowledge ascriptions is composed of two hypotheses. First, that as a matter of empirical fact, mechanism

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Note that many of these authors—in particular those who defend subject-sensitive accounts of knowledge—build certain aspects of *X* into the semantics of 'knows' itself. As we will see in §8, whether *X* goes into one's semantics or one's error theory makes no difference to the problem posed by conspiracy conditionals.

<sup>29</sup> In the case of first-personal knowledge ascriptions  $A = S$ .

<sup>30</sup> [Nagel \(2010\)](#) offers an extended criticism of Hawthorne and Williamson's use of the availability heuristic in their error theories. Her preferred account appeals to the phenomenon of 'epistemic egocentrism', whereby people fail to suppress privileged information (i.e. what they know or are concerned with) in evaluating the judgments of others. The complaints about Williamson and Hawthorne's error theories will apply just as much to hers.

X—i.e., variations in what is at stake for or salient to ascriber and/or subject—is what explains the variability in our intuitive judgments about the truth of various mundane knowledge ascriptions. And second, that the presence of X is the kind of thing that can sympathetically explain why otherwise competent speakers so often err in their use of ‘knows’.

## 7.2 The new dialectic

Let us suppose that the error theory just described is a contender as concerns our intuitions about knowledge ascriptions. Should we think that it works as an error theory of our judgments about conspiracy conditionals? Well, that depends on whether the two components of the error theory about the former can be transposed into an error theory about the latter. And on that issue I think that the empirical half of the error theory is almost surely inadequate, and that to the extent that it can be recovered, it is only in virtue of compromising the exculpatory half.

The empirical half of the moderate invariantist’s error theory associates variations in our judgments about ascriptions with changes in stakes and salience. Since by IGNORANCE the relevant agent’s epistemic state is the speaker’s, for present purposes the distinction between ascriber and subject is irrelevant. Taking stakes and salience in turn, I will argue that although the presence of factors might be *sufficient* to license the assertion of a conspiracy conditional, it is not plausible that their presence is *necessary* for it. But absent the necessity claim, the error theory is inadequate.

Starting with stakes, it should be clear that an appeal to variations in what *S* has riding on the truth of *p* is a non-starter as part of a general account of the judgment that *S* may sometimes appropriately and canonically assert a conspiracy conditional of the form ‘If *p*, *q*’. It may be the case that *p*’s being of sufficient practical concern to *S* licenses an assertion of the conspiracy conditional, but it is not the case that *p* *must* be that way. That is to say, for an ordinary person *S*, there are loads of propositions *p* such that: (i) according to the moderate invariantist, the proposition expressed by ‘*S* knows that *p*’ is true in every context; (ii) the question of whether *p* is more or less irrelevant to *S*’s practical interests; and yet (iii) there are contexts in which *S* (or anyone else) may felicitously assert the conspiracy conditional ‘If (¬)*p*, then *q*’. Most of the examples considered in §4 have this feature, but to drive the point home: imagine looking up the weather in any locale you don’t care about, and consider the conspiracy conditional:

(43) If it is raining there, then the weather report is accurate.

Clearly you may felicitously assert this conspiracy conditional even when you have nothing riding on the weather in that locale. Concerns of stakes, practical interests, etc., are thus orthogonal to the issue of what to make of the felicitous use of conspiracy conditionals. All the worse for error theories that rely on them.

The upshot is that the error-theoretic appeal to X will have to lean heavily on the salience condition to explain away conspiracy conditionals. What does this condition amount to? Well,

it is not enough that *S* merely *consider* the possibility that  $\neg p$ . For one, it is easy enough to do that in a context in which the corresponding conspiracy conditional seems *unassertable*.<sup>31</sup> For another, if the exculpatory half of the moderate invariantist's error theory is to be plausible, the attention one gives to these possibilities has to be the kind that would *explain* why otherwise rational and competent speakers fail to follow the basic rules about the use of 'knows'. So presumably  $\neg p$  is salient to *S* in the relevant way just in case *S* is taking the metaphysical possibility that  $\neg p$  *seriously*. What does taking a possibility seriously amount to? Nothing in the literature makes the notion altogether clear. We'll thus have to resort to taking those who have invoked the mechanism in their theorizing at their word—so see, for instance, the Williamson and Hawthorne passages from above, as well as the famous passage of Lewis's (1996, p. 549):

Let your paranoid fantasies rip — CIA plots, hallucinogens in the tap water, conspiracies to deceive, old Nick himself — and soon you find that uneliminated possibilities of error are everywhere.

These vague suggestions are enough to get the argument going. Consider again any of the following conspiracy conditionals:

- (1) If Oswald didn't shoot Kennedy, then someone else did.
- (25) If Federer defeated Murray in straight sets, then this report is accurate.
- (29) If nature is uniform, then induction is a reliable means of forming true beliefs.

If the diagnosis of error in terms of salience is to be plausible, it better be that we find these conditionals natural only when we are in the sorts of psychological states alluded to by Williamson, Hawthorne, and Lewis: those involving paranoid fantasies, the vivid imaginings of metaphysical counterpossibilities, etc. But the issue is that these are *not* the only situations in which conspiracy conditionals sound natural. One can find the evidence of a conspiracy as ludicrous as one wants while still finding it appropriate to assert in the canonical way that if Oswald didn't shoot Kennedy, then someone else did. The point is especially striking when it comes to conspiracy conditionals whose antecedents concerns events in the future, such as:

- (31) If this fair coin lands heads 1,000 times in a row, then most onlookers will be quite confident that the coin is double-headed.<sup>32</sup>
- (45) If Trump isn't president tomorrow, then either he'll have died or resigned by then.

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<sup>31</sup> To borrow from an example of Hawthorne's (2004, p. 64), just because I'm watching *The Matrix* doesn't mean it will be appropriate to assert something like:

- (44) If I'm watching a movie right now, then I'm in my house.

<sup>32</sup> See footnote 18.

I submit that these conditionals do not at all have the feel of being symptomatic of an over-fixation on obscure possibilities of error.

But by way of driving the point home, it is worth observing an important contrast between our judgments about skeptical knowledge ascriptions and our judgments about conspiracy conditionals. For most of the mundane propositions the moderate invariantist takes the ordinary person to context-invariantly know—(P<sub>1</sub>)–(P<sub>3</sub>) continuing to be serviceable examples—it takes some effort to get speakers to start actually *saying* that they aren't known. We should thus expect *discourse initial* assertions of knowledge denials of (P<sub>1</sub>)–(P<sub>3</sub>) to generally seem strange, as they typically will occur in contexts in which the truth of their complements are more or less taken for granted.

Is this prediction born out by the facts? Well, imagine a friend were to open up a conversation with something like:

(46) We don't know whether Trump is president of the United States.

(47) We don't know whether Oswald shot Kennedy.

Speaking for myself, I would expect to find these assertions a bit jarring. I'd want to know whether they had recently uncovered something new about Trump or the Kennedy assassination, or if they knew something about my evidence that I didn't. And until presented with something of the sort, I would probably just *disagree* with them. But the intuitions are different with conspiracy conditionals. A discourse initial assertion of (1) ('If Oswald didn't shoot Kennedy, then someone else did') is a noticeable improvement, as its standing in the philosophical literature suggests. Likewise is an assertion of (e.g.):

(22) If Trump is no longer the president of the United States, then it is surprising we haven't heard about that.

I might still find these speeches a bit puzzling—for instance I might wonder what prompted the person to say such a thing. But I wouldn't find myself inclined to *disagree* with her, or to want her to present some evidence that we don't know who shot Kennedy or whether Trump is alive.

This contrast casts yet further doubt on the use of the mechanisms of salience in an account of our intuitions about conspiracy conditionals. It simply strains credulity to think that what explains the difference in the (discourse initial) acceptability of (e.g.) (46) and (22) is that hearing (22) causes me to take possibilities in which Trump is dead sufficiently seriously, while hearing (46) does not.

I thus conclude that the felicitous use of conspiracy conditionals has nothing important to do with facts about salience. And since we also know it has nothing important to do with facts about stakes, it is unclear whether there is an error theory that could plausibly explain away the impression that canonical uses of conspiracy conditionals are sometimes appropriate.

## 8 Knowledge in the face of conspiracy conditionals

In the absence of an error theory, our judgments about conspiracy conditionals need to be accommodated rather than explained away by our theory of knowledge. We know from §4 that moderate invariantism about knowledge is not up to the task. This leaves three other options (broadly construed): (i) skeptical invariantism; (ii) sensitive invariantism; and (iii) contextualism. I will conclude the paper with by briefly arguing for contextualism over skeptical and sensitive invariantism.

Start with skeptical invariantism about knowledge. Being a brand of invariantism, this view has it that if you hold the underlying (epistemic) facts fixed, the truth of ‘ $S$  knows that  $p$ ’ in one context  $c$  guarantees its truth in every other context  $c'$ . But being a skeptical brand of invariantism, it also has it that for an ordinary adult  $S$ , ‘ $S$  knows that  $(P_n)$ ’ is context-invariantly false when  $(P_n)$  is something like ‘ $S$  has hands’.

The exact details of the skeptic’s underlying theory of knowledge will not matter for our purposes. So long as it meets the constraint just described, we know the view will have a straightforward explanation of why conspiracy conditionals are sometimes felicitous. The issue, however, is that we also know that the view will suffer from the defect §6.2 argued the “certainty-theoretic” conception of OPENNESS suffers from. The defect is that it cannot offer a principled explanation of: (i) the fact that sometimes we may felicitously assert sentences like  $(P_1)$  (‘Oswald shot Kennedy’), (ii) the fact that sometimes we may felicitously assert the corresponding conspiracy conditionals, but (iii) the fact that we can never felicitously assert the conjunction of these sentences with their corresponding conspiracy conditionals. In short: because by the skeptic’s lights we know so little, it’ll always be very easy to satisfy the demands of IGNORANCE. Why, then, is it also so easy for conspiracy conditionals to seem *infelicitous*?

Next there is sensitive invariantism about knowledge.<sup>33</sup> The sensitive invariantist is like the moderate invariantist, expect that they take the facts about what’s at stake for or salient to the subject of a knowledge ascription to context-invariantly affect the ascription’s truth-conditions. That is to say: the sensitive invariantist takes the X-like features of the moderate invariantist’s error theory and plugs them into the semantics for ‘knows’ directly. What this means is that, on the sensitive invariantist’s semantics, whether one knows a proposition depends not just on one’s beliefs and evidence concerning that proposition; it also depends on what one has at stake on the truth of the proposition, and/or on whether one finds salient possibilities in which the proposition is false. Thus, you can have two agents  $S$  and  $S'$  for whom the purely epistemic facts (beliefs, evidence, etc.) are identical as regards  $p$ , but for whom the facts about stakes and salience are *not* identical as regards  $p$ , and as a result ‘ $S$  knows that  $p$ ’ will be context-invariantly true while ‘ $S'$  knows that  $p$ ’ will be context-invariantly false.

Sensitive invariantism has been thought to capture much of the data that motivates contextu-

<sup>33</sup> As I will use the label ‘sensitive invariantism’, one who believes knowledge is subject to “pragmatic encroachment” (and isn’t a contextualist) is a sensitive invariantist. See Kim (2017) for a helpful overview.

alism about knowledge, while also avoiding some of contextualism's more exotic meta-semantic commitments.<sup>34</sup> However, if the arguments just given against the moderate invariantist's error theory of conspiracy conditionals are sound, then they should tell more or less equally against the sensitive invariantist's semantics for 'knows'. Again, to account for conspiracy conditionals like (1), the sensitive invariantist would have to argue that the psychological factors that make (1) seem assertable have the effect of destroying one's knowledge that Oswald shot Kennedy—no matter one's beliefs and evidence on the matter. But given the insignificance of psychological factors that distinguish situations in which (1) is assertable from situations in which it isn't, it is hard to find this treatment of the data compelling.

This leaves us with the contextualist's theory of 'knows'. The contextualist accepts IGNORANCE without reservation: any context in which the proposition expressed by 'S may assert 'If p, q' in the canonical way' is true, the proposition expressed by 'S knows whether p' is false. For her, the fact there are situations in which 'If Oswald didn't shoot Kennedy, then someone else did' is assertable in the canonical way shows that there are contexts in which, for the relevant S, 'S knows whether Oswald shot Kennedy' is false. Simple as that.

Of course, there remains the question of the mechanism that explains the contextual variability in the appropriateness of assertions of conspiracy conditionals. But that's a question about the contextualist's *meta*-semantics, not her semantics. And one need not have a theory of the mechanisms driving the context-sensitivity of an expression to know that it is context-sensitive.<sup>35</sup> And because we know that IGNORANCE is true, that conspiracy conditionals are sometimes judged to be assertable in the canonical way, and that these judgments can neither be systematically mistaken nor systematically knowledge-destroying, we know that some version of contextualism about knowledge has to be correct.

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<sup>34</sup> See, e.g., issues related to "semantic blindness" discussed by [Schiffer \(1996\)](#); [Williamson \(2005\)](#); [Greenough & Kindermann \(2017\)](#).

<sup>35</sup> [Ichikawa \(2011\)](#) makes a similar point in defense of [Lewis's \(1996\)](#) theory of 'knows'.

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