

- It seems to me (as it did to S & C) that this is a case of *inferential knowledge involving a false relevant premise*.
- S & C do not discuss their example they merely present it as a case which shows that Clark's [1] "no false lemmas" requirement [6] (in response to Gettier's [5]) is *too strong*.

or she knows, but in some cases even on the basis of inference

from what is not known (or even true), provided that the latter (evidential) propositions are sufficiently close to the truth.

• Since this example is mainly a digression for Hilpinen, he does not analyze it further. Such analyses came later.

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 Klein has been thinking about "knowledge from falsehood" (KFF) for years. His recent paper [8] is a thorough summary. Klein's paper is fascinating and intricate, but I won't be delving into it today. I'll be using it largely as a <i>foil</i>. Klein thinks that (deductive) KFF cases must be such that: S believes <i>q</i> solely on the basis of a competent deduction from <i>p</i>, where <i>p</i> is false. <i>But</i>, there exists a <i>true t</i> such that: <i>p</i> entails <i>t</i>, and <i>t</i> propositionally justifies <i>q</i> (for <i>S</i>). [<i>i.e.</i>, <i>S</i> is <i>in a position to know q</i> on the basis of <i>t</i>.] Had <i>S not</i> come to believe <i>p</i>, then <i>S</i> would <i>not</i> have come to believe <i>t</i> (nor would have <i>S concluded/inferred</i> that <i>q</i>). 	 Warfield [13] discusses several examples of (KFF), and he defends (KFF) against various forms of resistance. As with Klein, my focus will be largely orthogonal to Warfield's. I'll focus on the following example from [13], which (as I will discuss below) has the same <i>formal</i> structure as Hilpinen's: I have a 7pm meeting and extreme confidence in the (exact) accuracy of my fancy watch. Having lost track of the time and wanting to arrive on time for the meeting, I look carefully at my watch. I reason as follows: "It is exactly 2:59pm. ∴ I am not late for my 7pm meeting." As it happens, it's exactly 3pm, not 2:59pm. [We may suppose that my fancy watch is running perfectly, but that I (unwittingly) set it so that it reads one minute early.]
 My remarks today will be relevant to aspects (2) & (3) of Klein's cases/analysis (but not all of its many moving parts). Regarding (2), I will argue that some (KFNK) cases will <i>not</i> have <i>any</i> Kleinian "nearby truths" (given some constraints). Regarding (3), I will argue that some (KFF) cases involve false relevant premises <i>p</i> whose <i>falsity</i> is "essential". 	 The rest of the talk will involve variants of this example. Next, I will discuss a KFF-variant I have recently described in an <i>Analysis</i> paper [3]. This will bear on Klein's item (3). Then, I will describe a KFNK-variant [4], which will bear on Klein's item (2), and similar requirements of other authors. Finally, I'll return to Hilpinen's "approximate truth" claim.
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• In [3], I offer the following variant of Warfield's watch case: I have a 7pm meeting and extreme confidence in the (exact) accuracy of both my fancy watch and the Campanile clock. Having lost track of the	 we seem to have a case involving inferential knowledge of <i>q</i> on the basis of a false relevant premise <i>p</i>, and such that: If S's belief that <i>p</i> had <i>not</i> been false, then S would <i>not</i> have

- If *S*'s belief that p had *not* been false, then *S* would *not* have been in a position to know that q on the basis of a competent deduction from p.
- Now, *S*'s belief that *p* is *not merely* "*causally* essential" to the production of *S*'s inferential knowledge that *q* (in Klein's sense). The *falsity* of *S*'s belief that *p* is "essential"!
- There are several reasons why this is important:
 - Commentators (to date) have not focused on the precise role that the *falsity* of *S*'s belief that *p* can play.
 - Commentators (to date) seem to presuppose that it is *despite* the falsity of *S*'s basis belief that *S* knows *q*.
 - Some commentators presuppose that there must be a *specific "nearby* truth" that plays a certain epistemic role. This example (and other variants) call that into question.
- Next, I will discuss some forms of "resistance" to (KFF)/(KFNK). I will begin with "Coffman's Conjecture".

time and wanting to arrive on time for the meeting, I look out of my

office window (from which the Campanile clock is almost always visible).

at that instant (which *is* exactly 2:59pm). So, instead, one minute later (at

3), I look carefully at my watch, which (because it happens to be reading one minute slow) reads exactly 2:59pm. I reason: "It is exactly 2:59pm

Warfield is right), I have inferential knowledge that q, based on a relevant premise p, which is a falsehood. Now, for the twist. If my belief that p

had been true, then (we can plausibly suppose) it would have been based

on my reading (at exactly 2:59pm) of the Campanile clock, which would have read exactly 2:59. Unbeknownst to me, however, the Campanile

clock has been (and would have been) stuck at 2:59 for some time.

• It seems clear to me that I do *not* obtain inferential

knowledge of q, on the basis of p in this variant case.

• If this is correct (and assuming that Warfield is correct

about his original case), then we have a *stronger* KFF...

[See Luzzi's [10] for an insightful diagnosis/discussion.]

(*p*); therefore (*q*) I am not late for my 7pm meeting." Thus (supposing

As luck would have it (owing, say, to the fluke occurrence of a delivery truck passing by my window), the Campanile clock is obscured from view

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<list-item> Coffman [2, pp. 190-1] conjectures that in all cases of (KFF) we can identify a true proposition p' with the following two features: the subject is (at least) disposed to believe p', if the subject's inferential belief (that q) had been based on a belief in p', the inferential belief would (still) have constituted knowledge. In the cases on which I am focusing, Coffman's p' would be: (p') It is approximately 2:59pm (e.g., 2:59pm ± 2 minutes). But, we can amend our last example, so as to refute Coffman's conjecture. To wit, consider the following amendment: I am confident that my fancy watch is exactly accurate, whereas I believe that the Campanile clock is only accurate to within (say) two minutes. And, as a result, I am disposed to come to believe "it is approximately t" when I look at the Campanile clock and it reads exactly t; whereas, I am disposed to come to believe "it is exactly t" when when I look at my fancy watch and it reads exactly t. Having said that, I think there is something right about this "approximate truth" idea (remember, Hilpinen thought so too). </list-item>	 Interestingly, one thing Klein is trying to do in [8] is to explicate Hilpinen's "p is close to the truth" requirement. The key to Klein's explication is t. Recall, (2) Klein's t must (i) be entailed by p, and (ii) propositionally justify q (for S). Klein also requires that t satisfy the following condition: Whatever doxastically justifies S's belief that p must also propositionally justify t (for S). In our examples, it seems that t = p' (viz., Coffman's p'). Note that p' satisfies Klein's (2)-(4). Clearly, (2) p entails p'. And, it also seems clear that (3) p' propositionally justifies q (for S). A little thought reveals that p' satisfies (4), too. I suppose this is what doxastically justifies p for S (?): (p'') My watch reads 2:59pm, and my watch is exactly accurate. And, plausibly, p'' does propositionally justify t (for S). Coffman's KFF-conjecture about p' was false. What about Klein's conjecture about t? Must there always be such a t?
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 I will not address <i>that</i> (KFF) question here. Rather, I will address a related question. In cases of KFNK, does there always exist a <i>t</i> satisfying Klein's (2)-(4), <i>plus</i> the following: <i>S</i> is in a position to know that <i>t</i>. More precisely, I have in mind Hilpinen-Coffman-style <i>p'</i>-propositions, which involve "approximation". I will argue that — from the point of view of (TNV) — there will <i>not</i> always exist such <i>t/p'</i>'s. Where, (TNV) <i>also implies</i>: there are <i>no infinite epistemic chains</i>. there are <i>no circular epistemic chains</i>. 	 Tweaking the Formal Structure of Hilpinen-Warfield. Consider competent deductions of <i>q</i>[*]_n from <i>p</i>[*], of the form: (<i>p</i>[*]) It is 2:59pm ± 30 seconds. ∴ (<i>q</i>[*]_n) It is 2:59pm ± <i>n</i> seconds. <i>p</i>[*] is <i>false</i>, because it is exactly 3pm. Moreover (for the same reason), if <i>q</i>[*]_n is going to be <i>true</i>, then <i>n</i> must be ≥ 60. Next, suppose there exists a <i>threshold value k</i> such that: <i>q</i>[*]_k is the logically strongest claim about the time that I am in a position to know in the context. [where, of course, <i>k</i> ≥ 60.] Next, without loss of generality, I will assume that all candidate <i>t</i>-propositions must be of the following form: (<i>t</i>_a) It is 2:59pm ± <i>a</i> seconds. [where, of course, <i>a</i> ≥ 60.]
 b) tweaking the formal structure of the implicit walled examples, I will construct cases of KFNK for which there exist no "approximation" propositions <i>t</i> satisfying (2)-(5). [At least, not if we assume (TNV) in the background.] Once I've done that, I'll close with some final reflections on KFF, KFNK, and Hilpinen's "approximate truth" remark. 	 Now, consider the n = k-instance of the above form — that is, a <i>competent deduction</i> of (q_k[*]) from (p[*]). <i>Trilemma</i>: (I) a < k. In this case, t_a cannot serve its purpose, since — by <i>assumption</i> — I am <i>not</i> in a position to know <i>any</i> such t_a. That is, in this case, t_a must violate requirement (5).

 (II) a = k. In this case, t_a cannot serve its purpose, since it is identical to the conclusion q_k[*], and (TNV) precludes circular epistemic chains. Assuming (TNV), t_a violates Klein's (2). (III) a > k. In this case, t_a cannot serve its purpose, because it is too weak to (generally) ground inferential knowledge that q_k[*]. That is, once a > k, Klein's (2) is no longer secure. [Besides, if q_k[*] is deduced from p[*], then shouldn't t_a = q_k[*]?] We have shown that (in our new examples) if there exists a strongest q_k[*] that S is in a position to know, then there will be no "approximation" proposition t_a satisfying (2)–(5). But, what if there is no strongest q_k[*] that S is in a position to know? [Note: for this to be a problem, there would have to be no examples of this general form in which there is such a q_k[*].] I can think of only two reasons this might be the case. (1) Such cases always involve infinite epistemic chains, such as: p'_{1000.0625} → p'_{1000.125} → p'_{1000.25} → p'_{1000.5} → p'₁₀₀₁. (TNV) precludes infinite epistemic chains. So, no problem. 	 The only other reason I can think of is the following: (2) The epistemic predicate "is in a position to know q_k" is vague — in all such examples. Three points about this: First, if one is an epistemicist-(TNV)-er (Williamson?), then this possibility will not actually block my argument, since (metaphysically), we will just be back to the previous case. Second, even if one is a non-epistemicist-(TNV)-er (Audi?), there could (for all that's been said) still be a strongest q_k* that one is definitely in a position to know, and I could re-run the argument in terms of "definitely in a position to know". Finally, it's unlcear how appealing to vagueness is ultimately going to be probative, dialectically. Remember, there is a burden (ultimately) on the (TNV)-er who thinks there always does exist an "approximation claim" t_a that satisfies (2)-(5). It seems to me that "going vague" will end-up undermining some of the claims they (ultimately) will need to establish. I conclude that, by carefully examining the general, formal structure of Hilpinen-Warfield-style examples, we can refute the Kleinian conjecture that: in every case of KFNK, there exists an "approximation claim" t_a that satisfies (2)-(5).
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 In the sorts of examples we've been discussing, there seems to be <i>some</i> truth to Hilpinen's "approximate truth" remark. Intuitively, I think we have <i>at least</i> the following: If <i>S</i>'s belief that <i>p</i> had <i>not</i> been (even) <i>approximately true</i>, then <i>S</i> would <i>not</i> have been in a position to know that <i>q</i> on the basis of a competent deduction from <i>p</i>. Even in my <i>Analysis</i> example — where the <i>falsity</i> of <i>p</i> is explanatorily relevant to the fact that <i>S</i> knows that <i>q</i> on the basis of <i>p</i> — the <i>approximate truth</i> of <i>p</i> is <i>also</i> relevant. As decades of research on "verisimilitude" have shown, it is difficult to explicate "<i>p</i> is approximately true" [11, <i>chs</i>. 10-11]. This is a neat (and surprisingly under-explored) area of overlap between the contemporary literatures of (mainstream) epistemology and philosophy of science. 	 M. Clark, Knowledge and grounds: a comment on Mr. Gettier's paper, Analysis, 1963. E.J. Coffman, Warrant without truth?, Synthese, 2008. B. Fitelson, Strengthening the case for knowledge from falsehood, Analysis, 2010. , Knowledge from non-knowledge, unpublished manuscript, 2010. E. Gettier, Is justified true belief knowledge?, Analysis, 1963. G. Harman, Thought, Princeton University Press, 1973. R. Hilpinen, Knowledge and conditionals, Philosophical Perspectives 2 (Epistemology), 1988. P. Klein, Useful false beliefs, New Essays in Epistemology, Q. Smith (ed.), 2008. F. Luzzi, Counter-Closure, Australasian Journal of Philosophy, September, 2010. , Knowledge from ignorance, Phd. Dissertation, U. Aberdeen, December, 2010. D. Miller, Out of Error: Further Essays on Critical Rationalism, Ashgate, 2005.
 Final remark: it's not clear <i>precisely how</i> the <i>existence</i> of "nearby" known/true claims is supposed to bear on the probative value of (<i>prima facie</i>) KFNK (or KFF) cases [10, 13]. Branden Fitelson Knowledge from Non-Knowledge 15 	[12] J. Saunders and N. Champawat, Mr. Clark's definition of 'knowledge', Analysis, 1964. [13] T. Warfield, Knowledge from falsehood, Philosophical Persepctives 19 (Epistemology), 2005. Branden Fitelson Knowledge from Non-Knowledge 16

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