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How empty intuitions lead philosophy astray

Metaphysics in free fall

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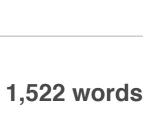
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## METAPHYSICS Callender vs. Kaiserman Issue 94, 3rd February 2021

Craig Callender | Professor of philosophy at the University of California, San Diego



June Flash Sale



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Contemporary metaphysicians ask deep questions about the structure of reality but answer them with unreliable, untested intuitions. Although philosophers like Alexander Kaiserman argue that logical argument can tell us which

asking questions that really matter writes Craig Callender.

To understand my concerns about the direction of analytic metaphysics, let's begin with a little game. I'll describe a simple scenario. You guess what will happen.

intuitions are valid, to be useful to anyone, metaphysics must apply comprehensive models of the world and start

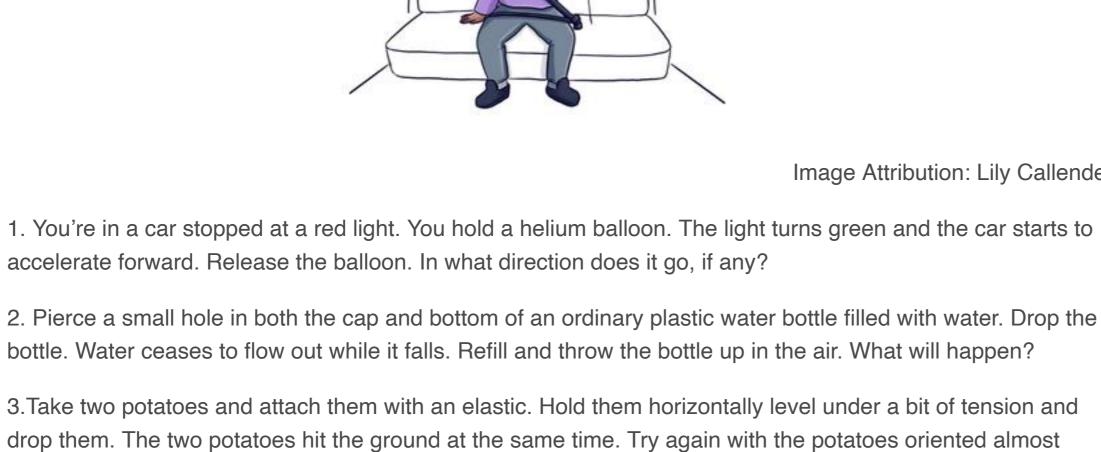


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The answers are at the end of this article. Take a peek and see how you did. Good physical intuitions are ones that are in harmony with good theory. My

point is that some areas of metaphysics lack this.

Suppose that we had to build our theory of the universe on these and other hunches. Furthermore, imagine that

we are not allowed to do the above experiments nor appeal to good theory predicting and explaining what would

happen. Too much of analytic metaphysics looks like what would result — elaborate towering systems based on

vertically, still attached by the elastic. Release. Which potato hits the ground first, if any?

flimsy foundations. Here I have in mind what Amanda Bryant calls "free range metaphysics", metaphysics that floats essentially freely from science. As she says, what is good for chickens is not good for metaphysics. My point is not against the use of intuition. In physics education there is a debate about its use. One side uses cases like the above to show that intuition can be trouble because it often misleads. Another school of thought that

I favor (featured in *Physics Education*'s wonderful What Happens Next? series) uses examples like these to help

They lack good theory and are stuck with a bunch of unmoored intuitions. We've just seen how counter-intuitive

the world can be, even with familiar objects such as balloons, bottles and potatoes. If these intuitions are off-base

even with good theory in the background, how can we expect them to be reliable in exotic metaphysical scenarios

What makes intuitions better or worse? Answer: good theory. Good physical intuitions are ones that are in

harmony with good theory. My point is that some areas of metaphysics lack this.

students develop better\_physical intuitions.

can then have the same status as those above.

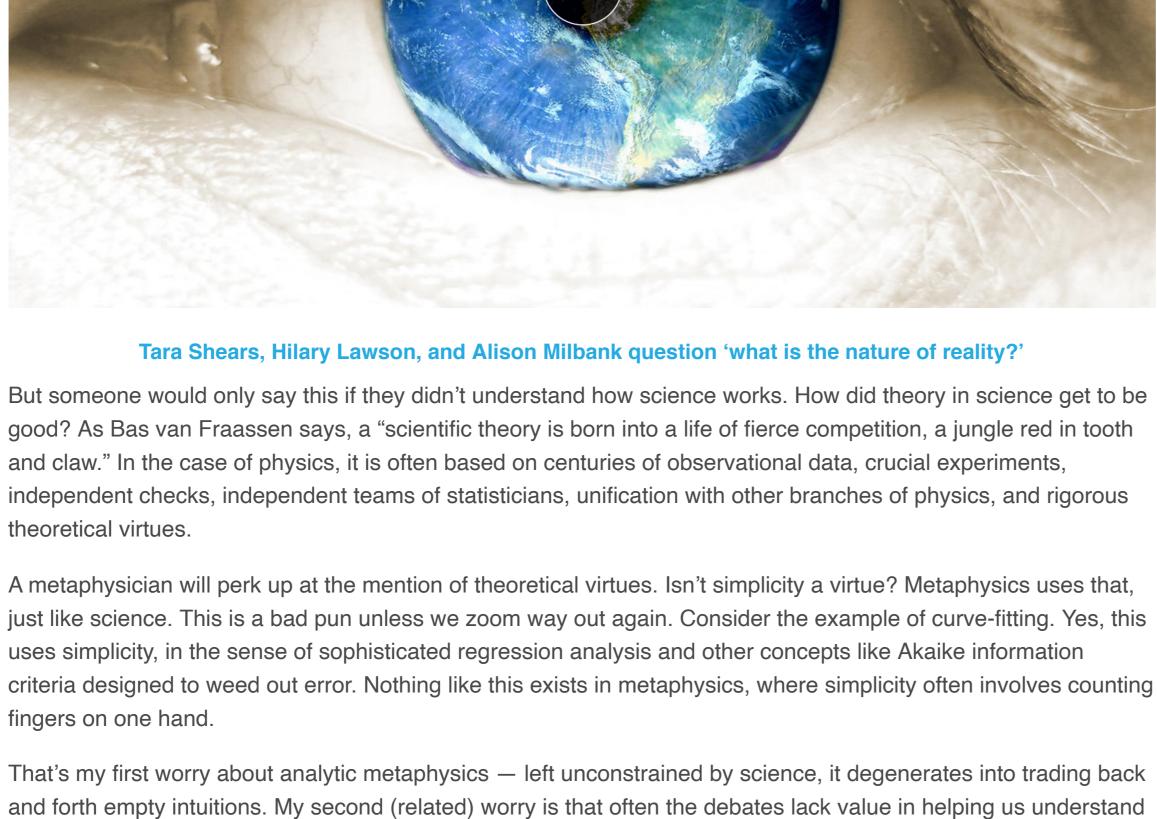
absent good theory? Our intuitions are historically conditioned and often misleading. To weed out the good from the bad we must appeal to comprehensive theory that seriously attempts to model the actual world. The defender of analytic metaphysics will respond that metaphysical theory can be good, that in fact it is discovered the same way good science is, namely, by inference to the best explanation. Both metaphysicians and

explanation in deciding amongst these theories. Good metaphysical intuitions trained on good metaphysical theory

scientists begin with data, formulate theories possessing many theoretical virtues, and then infer to the best

One problem with this reply is that every word in "inference to the best explanation" except "to" and "the" are

unclear. Put that concern to one side. If we zoom out enough, at some level we must agree. We will only ever have a finite number of data points. Think of theorizing as drawing a line through all those data points. With a finite amount of data, we can always draw an infinity of lines through it. If anything going beyond the data counts as "inference to the best explanation" then metaphysics is in the same business as science.



Krokk: That rock — thing or stuff? Zug: Thing Krokk: Inside the rock? Zug: Stuff Krokk: [slams rock violently onto ground, breaking it into pieces] Both: [thinking]

One recent debate in many of the best journals is about whether the world is composed of things\_or stuff\_or both.

Last I checked, things and stuff are not natural kinds in any mature powerful theory of the world. Maybe our

distant ancestors sitting around the fire in a cave found it useful to carve the world up into things and stuff:

It wouldn't surprise me if this carving has some residue in our language and conceptual scheme. Some stuff seems nicely described as things and some things seem nicely described as stuff. Does anything hang on this?

the world.

Zug: Inside — things

clumped bits of field, and vice versa. Yet whether there are particles or fields turns out to matter to scores of issues (e.g., energy, relativity, determinism, locality) and indirectly to a ton of theory and data. It is also crucial to developing better interpretations of quantum theory and future progress in quantum gravity. It's hard work.

Meanwhile, in the stuff versus things debate, they are busy debating whether it's natural to dub as stuff the

clear that answering the giant pasta maker question matters to understanding the world.

independently been criticized as free range metaphysics. It's an empty house of cards.

the slippery slope that goes from some metaphysics being good to all of it having promise.

link, the authors report that more than 80% of their students got the wrong answer.

product of putting all the things in the universe into a giant pasta maker and then turning the handle until every

thing is stretched. Imagine if the public — or worse, upper administration — found out they were paying people to

debate this. My first point was that if we got the potato question wrong, how can we have confidence in our answer

to the giant pasta maker question. It's utterly unconstrained by rigorous theory. My second point is that it's hardly

If a field ontology is correct, it matters to our understanding of energy, prediction, and locality. The hope is always

having promise.

that this will lead to better new theory and experiment. Suppose a stuff ontology, by contrast, is correct. Stuffists win. It's all stuff. Fine. So what? What do we learn about the world? Defenders of free range metaphysics will answer that the debate matters to many other metaphysical debates, such as whether a single bunny rabbit lasting across time is one rabbit or an infinity of rabbit time stages, whether a new object is brought into being when a fist is made, and other such matters. I agree that we may find an interesting map of some parts of our cognitive architecture (assuming that intuitions about things and stuff track

Obviously I am not against all metaphysics. My more nuanced views are here. But we should resist sliding down

something outside of English). Yet why think we're learning about the world? Each of these debates have

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The balloon will go forward to the front of the car, no water will come out of the bottle (going up is free fall too), and

effect, where the bottom of a released Slinky stays suspended mid-air until the falling top hits it. In the water bottle

the higher potato will land first (subject to a few qualifications). The potato is an instance of the fantastic Slinky

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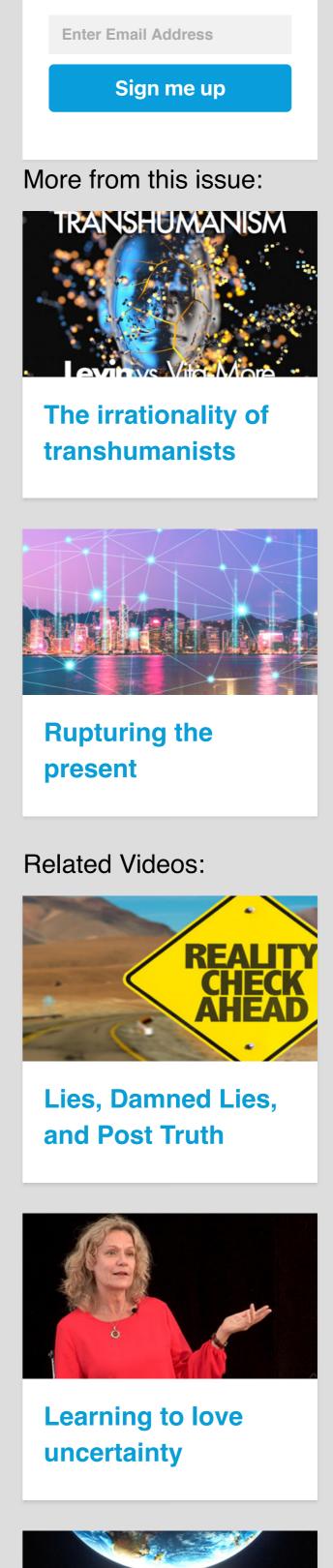
Henry an Almost everybody familiar of metaphysics and its one of best branch of science. Metaphysics is basically a branch of

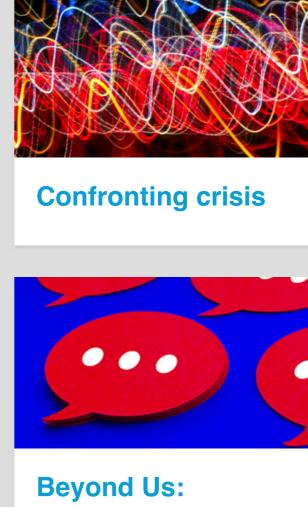
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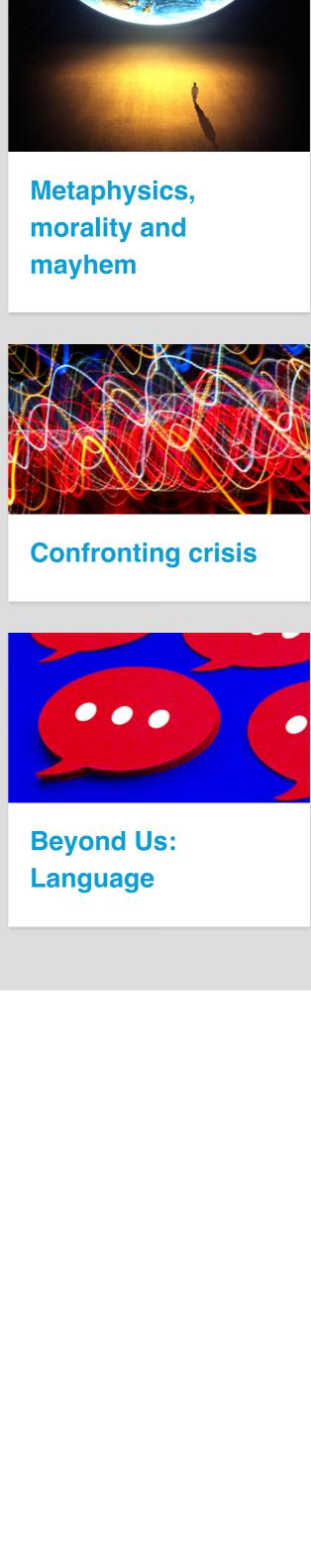
only became clear why there were important when I realised that they were all proofs of the existence of god that had been created for court lectures. This can't be a good way to introduce students to this subject.

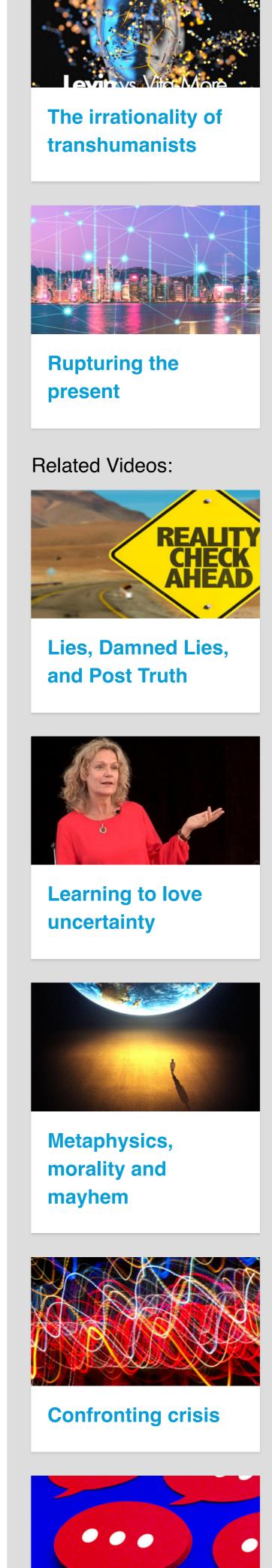
The metaphysics I learnt on my masters course was completely disconnected from anything else I studied. The arguments seemed medieval and it

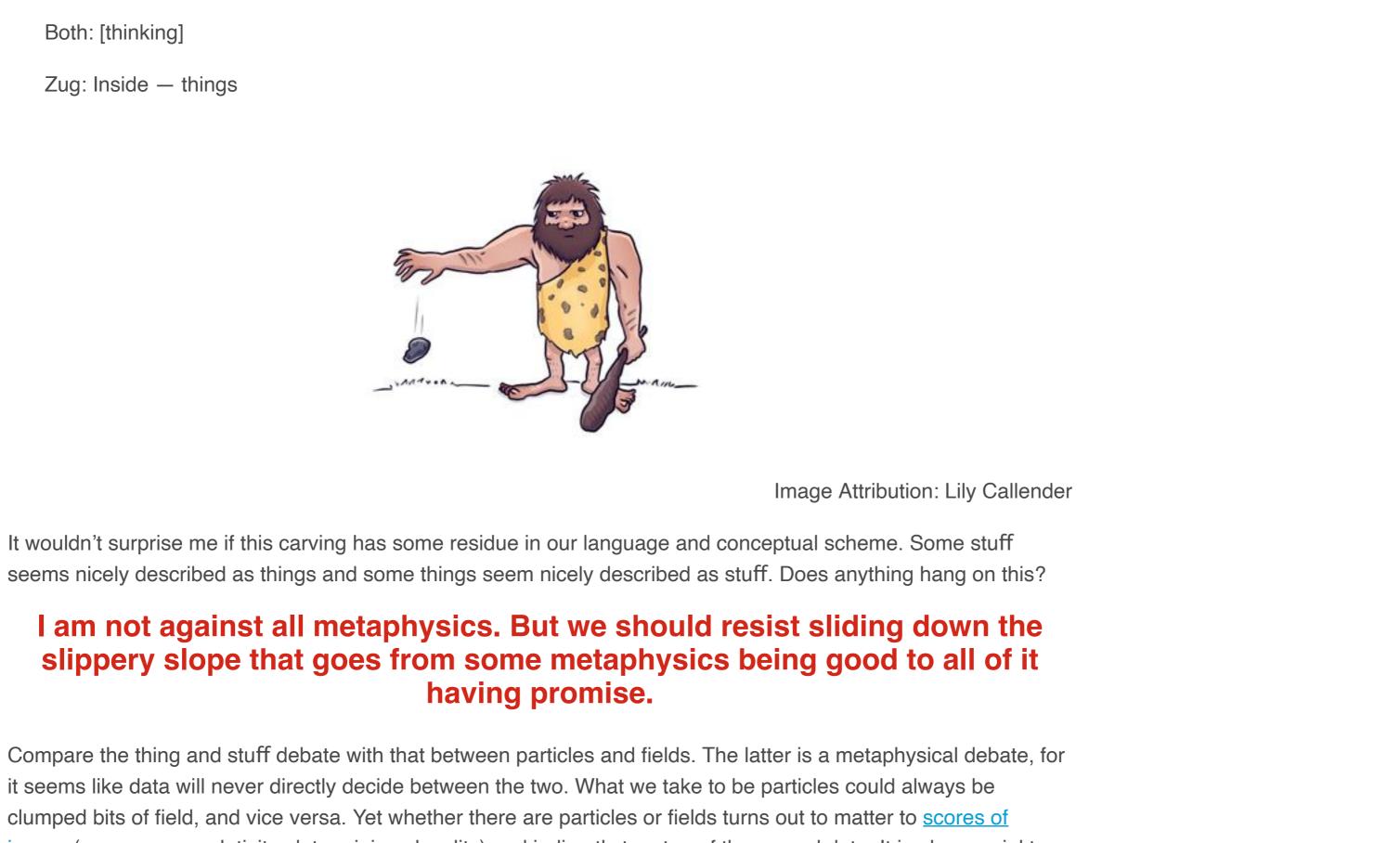












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