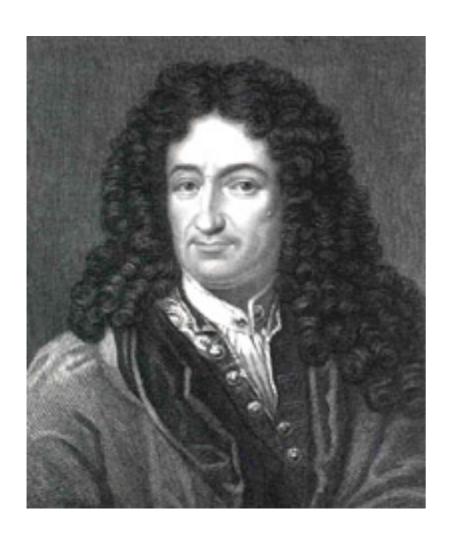
So far we have discussed two of Aquinas' arguments for the existence of God. These are each versions of the cosmological argument --- so called because they are attempts to argue from the existence of the cosmos -- the universe -- to the existence of God.

The aspects of the cosmos on which those two arguments focused were different. Aquinas' second way focused on the fact that the cosmos contained beings which have been caused to exist, while the third way focused on the fact that the cosmos contains contingent beings -- beings who could have failed to exist.



Our topic today is an attempt by a later philosopher, Gottfried Leibniz, to improve on Aquinas' third way.

Leibniz was a German philosopher, mathematician, theologian, and scientist, whose achievements included the invention of calculus. Indeed, his intellect and achievements were such that they led Diderot, a later French philosopher, to remark that

"When one compares the talents one has with those of a Leibniz, one is tempted to throw away one's books and go die quietly in the dark of some forgotten corner."

As we'll see, Leibniz agreed with Aquinas that reflection on the nature of necessity and possibility was enough to show the existence of God; and, moreover, Leibniz managed to find a line of reasoning for this conclusion which avoids the two main problems we discussed with Aquinas' argument.

1. The principle of sufficient reason

- 2. The argument
- 3. Objections
- 3.1 Explaining God
- 3.2 Quantum mechanics
- 3.3 Collapse

Leibniz's argument is best thought of as beginning with a question which he poses at the end of the first paragraph of our reading for today:

Why is there any world at all, and why is it the way that it is?

Leibniz's core thought is that this question must have an answer, and that the only satisfactory answer to this question will involve God.

Leibniz thought that there must be some explanation of why there is a world at all because he endorsed a certain principle about explanation, known as the *principle of sufficient reason*.

The basic idea behind the principle is this:

Take any feature of the world. If the world *could have* failed to be that way, then there must be some explanation of why the world *is* that way.

So, for example, we might notice that although the sky is blue, it might not have been -- the sky on earth could have failed to be blue. Given only this, Leibniz concludes that there must be some reason, or explanation, why the sky is blue: some reason why it is blue rather than some other color.

This sort of example suggests the following version of the principle of sufficient reason:

Principle of sufficient reason

Any contingent fact about the world must have an explanation.

Does this principle seem plausible to you? Can you think of any arguments for it?

- 1. The principle of sufficient reason
- 2. The argument
- 3. Objections
- 3.1 Explaining God
- 3.2 Quantum mechanics
- 3.3 Collapse

Principle of sufficient

Any contingent fact al

EYOND THE WORLD, that is, beyond the collection of there is some One Being who rules, not only as the soul is the or, better, as the self is the ruler in my body, but also in a much For the One Being who rules the universe not only rules the w fashions or creates it; he is above the world, and, so to speak, ex and therefore he is the ultimate reason for things. For we cann of the individual things, or even in the entire collection and ser sufficient reason for why they exist. Let us suppose that a **elements** of geometry has always existed, one copy always made It is obvious that although we can explain a present copy of the the previous book from which it was copied, this will never complete explanation, no matter how many books back we go. ways wonder why there have always been such books, why the written, and why they were written the way they were. What is books is also true of the different states of the world, for the follows is, in a sense, copied from the preceding state, though with certain laws of change. And so, however far back we r previous states, we will never find in those states a complete expla for why, indeed, there is any world at all, and why it is the w

150 LEIBNIZ: BASIC WORKS

Our next task is to understand how Leibniz uses superior strength of certain inclinations as we shall soon see, where the reasons don't necessitate (with absolute or metaphysical necessity, where the contrary implies a contradiction*) but incline. From this it follows that even if we assume the eternity of the world, we cannot escape the ultimate and

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Therefore, the reasons for the world lie hidden in something extramundane, different from the chain of states, or from the series of things, the collection of which constitutes the world. And so we must pass from physical or hypothetical grecessist, which determines the later things in the world from the earlier, to something which is of absolute or metaphysical necessity, something for which a reason cannot be given. For the present world is physically or hypothetically necessary, but not absolutely or metaphysically necessary. That is, given that it was once such and such, it follows that such and such things will arise in the future. Therefore, since the ultimate ground must be in something which is of metaphysical necessity, and since the reason for an existing thing must come from something that actually exists, it follows that there must exist some one entity of metaphysical necessity, that is, there must be an entity whose essence is existence, and therefore something must exist which differs from the plurality of things, which differs from the world, which we have granted and shown is not of metaphysical necessity.

Furthermore, in order to explain a bit more distinctly how temporal, contingent, or physical truths arise from eternal, essential or metaphysical truths, we must first acknowledge that since something rather than nothing exists, there is a certain urge for existence or (so to speak) a straining toward existence in possible things or in possibility or essence itself; in a word, essence in and of itself strives for existence. Futhermore, it follows from this that all possibles, that is, everything that expresses essence or possible reality, strive with equal right for existence* in proportion to the amount of essence or reality or the degree of perfection they contain, for perfection is nothing but the amount of essence

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So far, we might sum up Leibniz's key ideas as follows:

- Any contingent fact about the world must have an explanation. (the principle of sufficient reason)
- The fact that the world exists must have an explanation.
- The fact that the world exists can't be explained by any of the things in the world.

One question you might have is: if these claims are all true, what does that show? But let's put that to the side for a second, and focus on the relationship between the first and second of these claims. What does Leibniz seem to think that the relationship between these claims is?

What must be true of the existence of the world for the second of these claims to follow from the principle of sufficient reason?

But is it true that it is contingent that the world exists? In other words, is it possible that there could have been no world? What are we imagining when we imagine there being no world?

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- Any contingent fact about the world must have an explanation. (the principle of sufficient reason)
- So, the fact that the world exists must have an explanation.
- The fact that the world exists can't be explained by any of the things in the world.

But is it true that it is contingent that the world exists? In other words, is it possible that there could have been no world? What are we imagining when we imagine there being no world?

I think that what we are imagining is a world in which none of the things that now exist are around. So, for example, we imagine a world in which there are no people, or buildings, or planets, or matter, or anything. But the fact that we are inclined to describe this as a *world* in which none of these things exists means that it is perhaps not best to express what we are imagining as "there being no world."

A more precise way of putting the idea (and one which Leibniz seems to have had in mind) might be: we can imagine there being *no contingent things*.

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- Any contingent fact about the world must have an explanation. (the principle of sufficient reason)
- So, the fact that the world exists must have an explanation.
- The fact that the world exists can't be explained by any of the things in the world.

A more precise way of putting the idea (and one which Leibniz seems to have had in mind) might be: we can imagine there being *no contingent things*.

This suggests a reformulation of the claims above:

Any contingent fact about the world must have an explanation. (the principle of sufficient reason)

The fact that there are contingent things must have an explanation.

The fact that there are contingent things can't be explained by any contingent things.

- 1. The principle of sufficient reason
- 2. The argument
- 3. Objections
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- 3.3 Collapse

Any contingent fact about the world must have an explanation. (the principle of sufficient reason)

The fact that there are contingent things must have an explanation.

The fact that there are contingent things can't be explained by any contingent things.

Further, we can make explicit the extra premise needed to get from the first of the above claims to the second:

It is a contingent fact that there are any contingent things.

- 1. The principle of sufficient reason
- 2. The argument
- 3. Objections
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- 3.2 Quantum mechanics
- 3.3 Collapse

Any contingent fact about the world must have an explanation. (the principle of sufficient reason)

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- 1. Any contingent fact about the world must have an explanation. (the principle of sufficient reason)
- 2. It is a contingent fact that there are any contingent things.
- 3. The fact that there are contingent things must have an explanation. (1,2)
- 4. The fact that there are contingent things can't be explained by any contingent things.

Once we see the premises laid out in this way, the similarity to Aquinas' argument is apparent: it follows from (3) and (4) that

5. The fact that there are contingent things must be explained by something which is not contingent.

And a being which is not contingent is a being which not only exists, but also could not fail to exist -- that is, a necessary being.

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- 2. The argument
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- 3.3 Collapse

- 1. Any contingent fact about the world must have an explanation. (PSR)
- 2. It is a contingent fact that there are any contingent things.
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- 5. The fact that there are contingent things must be explained by something which is not contingent. (3,4)

C. There is a necessary being. (5)

Is this argument valid?

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Is this argument valid?

We have already discussed premises 1 and 2; presuming that the argument is valid (and hence that (3) and (5) really do follow from other premises) this leaves only premise 4 as open to dispute.

Suppose that the world has existed for an infinite time, and that each contingent thing was caused to exist, and hence explained, by some prior contingent thing. Would this show that premise (4) is false? Does Leibniz need a "no infinite chains" premise of the sort employed by Aquinas in his 2nd way? Does Leibniz think that we can know just by thinking about it that the universe has been around for a finite time, and so must have had a first cause?

Can you think of any positive arguments in favor of premise 4?

Let's suppose we grant 1, 2, and 4, and so agree that Leibniz has shown the existence of a necessary being. Would this suffice to show the existence of *God*? Would it provide evidence for the existence of God?

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Now that we have a grip on Leibniz's premises and some of the intuitive reasons for thinking that they are true, we are in a position to turn to consider some objections to those premises. As it happens, each of the most powerful objections to Leibniz's argument focuses on the first premise, the principle of sufficient reason.

The first might be expressed in an intuitive way like this:

Leibniz demands that everything get an explanation -- at least that is what the first premise says. But then why is the existence of God the one thing that does not need an explanation? Surely if the existence of contingent things needs some explanation, then so does the existence of God -- but no religious believer can accept the idea that the existence of God would be explained by something else!

There is an obvious response to this objection: Leibniz does not say that everything needs an explanation, but only that all contingent things need an explanation. So the principle of sufficient reason does not imply that God needs an explanation, since God is a necessary being.

Is this a satisfying reply to the objection?

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- 5. The fact that there are contingent things must be explained by something which is not contingent. (3,4)

C. There is a necessary being. (5)

A second objection is based on certain interpretations of quantum mechanics, our best current theory of the physical world.

According to the standard interpretations of quantum mechanics -- though not all interpretations of the theory -- the physical world is indeterministic. That is, what the laws of nature tell us in many cases is not what will happen, but rather than probabilities of various outcomes each of which is consistent with the laws of nature.

Let's imagine a case in which there are three such possible outcomes, A, B, and C, and that quantum mechanics tells us that A has a 40% chance of happening, B has a 25% chance of happening, and C has a 35% chance of happening. Now suppose C is what in fact happens, and we ask this question:

Why did C, rather than A or B, happen?

Many people think that quantum mechnics strongly suggests that there is no answer to this question: there simply is no reason by C, rather than A or B, happened.

If this were true, would this pose a problem for the PSR? Could the principle be modified to avoid this sort of counterexample?

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- 5. The fact that there are contingent things must be explained by something which is not contingent. (3,4)

C. There is a necessary being. (5)

A final objection is, in a way, the most worrying. We are supposing that it is contingent that there are any contingent things, and hence that by the principle of sufficient reason, there must be some explanation for the fact that there are contingent things.

Let us suppose that the fact that there are contingent beings is explained by some necessary being, whom we can call N. Then it seems as though if the cosmological argument is to be convincing, the following must be true:

N explains the fact that there are contingent things.

So far, so good, you might think. On closer examination, though, this claim leads to a dilemma.

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necessary

C. There is a necessary being. (5)

So far, so good, you might think. On closer examination, though, this claim leads to a dilemma.

If we are supposing that this claim is true, then it must be either a necessary truth or a contingent truth.

N explains the fact that there are contingent things.

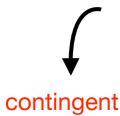
contingent

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C. There is a necessary being. (5)

N explains the fact that there are contingent things.





necessary

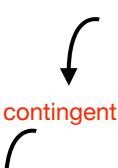
Let's explore the first horn of the dilemma first: suppose that the claim that N explains the existence of contingent things is itself contingent.

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- 5. The fact that there are contingent things must be explained by something which is not contingent. (3,4)

C. There is a necessary being. (5)

N explains the fact that there are contingent things.



1

necessary

Then by the PSR there must be some explanation for the fact that N explains the existence of contingent things.

Let's explore the first horn of the dilemma first: suppose that the claim that N explains the existence of contingent things is itself contingent.

If this is true, then it follows from the principle of sufficient reason that there must be some explanation for this.

- 1. The principle of sufficient reason
- 2. The argument
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- 3.2 Quantum mechanics
- 3.3 Collapse

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N explains the fact that there are contingent things.



contingent



Then by the PSR there must be some explanation for the fact that N explains the existence of contingent things.



But there is no such explanation.



necessary

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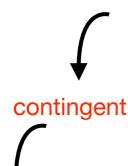
If this is true, then it follows from the principle of sufficient reason that there must be some explanation for this.

But this sounds absurd. What could explain this? N itself can't explain the fact that N explains the existence of contingent things, since this is circular. And what else could explain this?

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N explains the fact that there are contingent things.





necessary

So let's turn to the other horn of the dilemma, and suppose that this claim about N is necessary.

Then we avoid having to find an explanation for this claim, which is good.

Then by the PSR there must be some explanation for the fact that N explains the existence of contingent things.



But there is no such explanation.

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contingent

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necessary Then by the PSR there must be It is a necessary truth that there are

So let's turn to the other horn of the dilemma, and suppose that this claim about N is necessary.

Then we avoid having to find an explanation for this claim, which is good.

But we end up with a worse problem: if it is a necessary truth that N explains the existence of contingent things, then it is a necessary truth that there are contingent things.

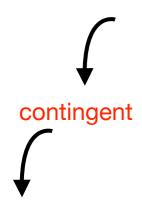
But there is no such explanation.

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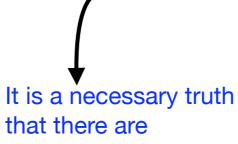
Then by the PSR there must be some explanation for the fact that N explains the existence of contingent things.



But there is no such explanation.



necessary





But then premise (2) of the original argument is false.

contingent things.

So let's turn to the other horn of the dilemma, and suppose that this claim about N is necessary.

Then we avoid having to find an explanation for this claim, which is good.

But we end up with a worse problem: if it is a necessary truth that N explains the existence of contingent things, then it is a necessary truth that there are contingent things.

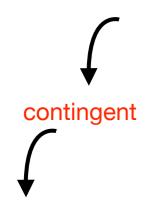
Which contradicts a premise of our original argument.

- 1. The principle of sufficient reason
- 2. The argument
- 3. Objections
- 3.1 Explaining God
- 3.2 Quantum mechanics
- 3.3 Collapse

- 1. Any contingent fact about the world must have an explanation. (PSR)
- 2. It is a contingent fact that there are any contingent things.
- 3. The fact that there are contingent things must have an explanation. (1,2)
- 4. The fact that there are contingent things can't be explained by any contingent things.
- 5. The fact that there are contingent things must be explained by something which is not contingent. (3,4)

C. There is a necessary being. (5)

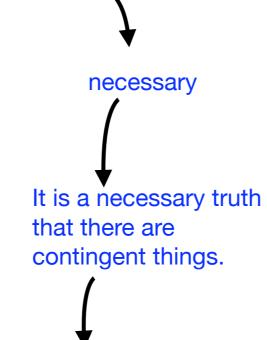
N explains the fact that there are contingent things.



Then by the PSR there must be some explanation for the fact that N explains the existence of contingent things.



But there is no such explanation.



But then premise (2) of the original argument is false. But if the claim that N explains the existence of contingent things is neither contingent nor necessary, it must be false. But if it is false, then it looks like (5) must be false, and the argument must have gone wrong somewhere.

How should Leibniz reply?