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\\_//--- Veritasium [+] Sleeping Beauty
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Greetings [Dr. Derek Muller from Veritasium],

I'm writing this document in response to this particular video...

The Sleeping Beauty Problem | Adam Alga | <https://youtu.be/XeSu9fBJ2sI>

I'm going to establish MY interpretation of the setup, and expand upon the notion that the correct answer is: NEITHER [50%/one-half] nor [33.3333%/one-third], and further to that point, this is an experiment that touches on (quantum physics/entanglement/superposition).

In the experiment, Sleeping Beauty agrees to undergo an operation where she is put to sleep on Sunday night. Then, a "fair coin" is flipped.

In every scenario where she is awakened and then put back to sleep, she will be asked the question: "What do you believe is the probability that the coin came up heads...?"

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|| If the coin comes up |[ ]| She'll be awakened on |[ ]| and then she'll be ||
\\_//-----\\_//-----\\_//-----\\_//
//-----\\_//-----\\_//-----\\_//
|| Heads                |[ ]| Monday                |[ ]| put back to sleep ||
|| Tails                 |[ ]| Monday and Tuesday    |[ ]| put back to sleep ||
\\_//-----\\_//-----\\_//-----\\_//
```

Here is my response.

The correct answer is neither 1/2 nor 1/3, for multiple reasons that I will elaborate on.

First, [the easiest argument to make] that both of those answers are INCORRECT, is that sometimes a coin may land on its side. While that is pretty rare...? It DOES happen, so mathematically speaking, it'll never ever be a CLEAN [1/2] or [1/3].

From a philosophical and comedic perspective, suppose the coin managed to land on its side. The coin is in neither a state of HEADS or TAILS. Sleeping Beauty is screwed, dude.

Rather than for the COIN to be thrown on its head...?

The whole experiment is thrown on its head, instead.

In this case, Sleeping Beauty gets stuck within a time vortex, a paradox, a state of limbo throughout the rest of eternity, not unlike how time unfolds in the movie [Inception] with [Leonardo DiCaprio]. Dreams nested within dreams, time slowing down to a crawl, approaching eternity with each passing moment of sleep paralysis.

That'll suck for her, because [no rule was written for that RARE exception].

Therefore, in order to prevent Sleeping Beauty from being caught within an uneventful state of eternal sleep paralysis and limbo...? An additional rule should be written into the experiment, such as, etc. and so forth.

That would be the most responsible thing to do, in this case.

While this explanation is comedic and philosophical, I'd like to expand upon the idea that the "Sleeping Beauty put back to sleep a million times" scenario, is the most real argument to make, but instead of putting a NUMBER on it, I think the answer is that she is put back to sleep an infinite number of times.

Here's why. In every scenario, she's being put back to sleep.

[There's no statement that BREAKS or EXITS the LOOP, and therefore, the probability that the coin has landed heads up cannot be measured.] Here's a way to look at the logic in [PowerShell]...

```
<# 0: Heads, 1: Tails #>
Do
{
    @("Monday", "Tuesday")[(Get-Random -Max 2)]
}
Until ($Null) <# No exit condition specified, the loop forever repeats itself #>
```

It does not actually matter what the probability is, because the probability is anywhere from 0 - 100 percent, because she keeps being put back to sleep~!

In reality, quantum superposition makes an appearance.
The answer is (33% & !50%), (!33% & 50%), (33% & 50%), and (!33% & !50%), the “!” means [not].

What I'm suggesting, is that ANY GIVEN ANSWER IS EQUALLY AS TRUE AS IT IS ALSO FALSE AT THE SAME TIME...

Simulation and Simulacra, or various other offshoots of that story all boil down to this following analogy:

In real life, everyone has dreams that range from [fortunate] to [unfortunate].

Typically, people may have dreams where in their dream they ACCUMULATE some riches, fame, recognition, or other things that people in society typically deem as POSITIVE.

In those cases, when the person wakes up, they think to themselves “Damnit, it was ALL just a dream.”

Whereas they may also have nightmares, where in their dream they face something CATASTROPHIC, life altering, destructive, devisive, fearful, terrifying, or outright menacing.

In those cases, when the person wakes up, they think to themselves “Thank f***** god it was JUST a nightmare~!”

In either case, Sleeping Beauty will be awaking from a dream or nightmare that will either POSITIVELY or NEGATIVELY influence her answer, in a similar way to how the double slit experiment works... and then she's being put back to sleep.

She is recursively put back to sleep, only to be woken up, given no new information, asked the same question, and then put back to sleep again.

I think this answer breaks down everyones expectations just like Richard Feynman always said...

“I think I can safely say that nobody understands quantum mechanics.”

<https://youtu.be/w3ZRLlWgHI>

As for the question in the end about existence, and the universe...

...I don't buy into the Big Bang theory, because the speed of light is a constant.

In order for the Big Bang theory to be CORRECT, then that would invariably mean that matter had to have moved faster than the speed of light for the first 800,000 years or so, which is impossible.

Much like how Sleeping Beauty is stuck in an infinite loop...? Uh, matter would require an INFINITE AMOUNT OF ENERGY to move faster than the speed of light, as well as the SAME amount of INFINITE ENERGY to slow the hell down.

So, how the hell would the matter be able to go that fast, and then slow back down, with infinite energy...?
It can't.

Existence is impossible, it is a paradox. So is this experiment.

What makes the most sense, is this...

The universe started as a total singularity of energy, much like a black hole has a singularity of gravity.
It makes sense to say that the entire observable universe is within one massive black hole...
...not unlike the one that you covered in a video of the first picture of a black hole on April 10th, 2019.

04/09/2019 – Dr. Muller “Upcoming image of a black hole, bro.”

<https://youtu.be/zUyH3XhplTo>

04/10/2019 – Dr. Muller “The shadow is the light, and the light is the shadow, bro.”

https://youtu.be/S_GVbuddri8

Oh, I heard ya loudly and clearly, bro.

Energy ALWAYS wants to become entropy.

The speed of light is a constant.

Something kickstarted the process of converting energy into entropy. In this transition, where energy is converted into entropy, energy becomes (mass + space + time + gravity), and then when maximum entropy is attained, then all (mass + space + time + gravity) collapses back onto itself whereby generating a brand new cycle of the universe.

Probably sounds like the dumbest response to this video... but that's been my theory for over (4) years now.

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