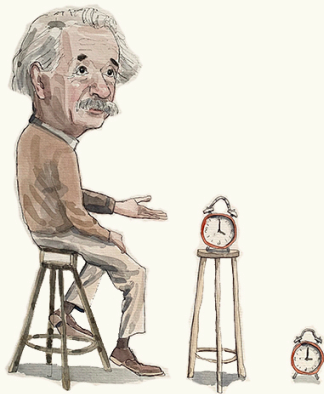


Can TIME flow at different SPEEDS?



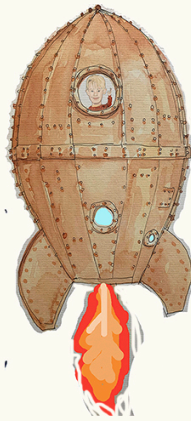
It all depends on where you are.
Gravity - the force that makes things fall to Earth - makes a difference to how fast time flows. The more gravity, the slower time flows.

And how much TIME goes by also depends on how you move about in space.

Suppose you have a twin who is an astronaut. At some point, they go into space and fly away from Earth at immense speed to be with you again...

What you will find is that you have become an old person in the meantime while they have only aged by a few years...

IS TIME TRAVEL POSSIBLE?



You can travel from Paris to New York and back. Might it also be possible to travel from this year back to last year? Scientists think there could be such a thing as 'wormholes' through time...



IS the present moment in TIME special?

Are things in the past and in the FUTURE just as real as things in the PRESENT?

Perhaps the present is like a spotlight moving across a stage: at any given moment, there is ONE SPECIAL TIME, the PRESENT, that stands out from all other TIMES.

The SPOTLIGHT moves along: TIMES in the past have already had their moment in the SPOTLIGHT and times in the FUTURE will get their moment in the SPOTLIGHT later...



Modern Physics does not treat things in the present as being any different from those in the PAST and FUTURE.

A person in the PAST or in the FUTURE is just as real as you are...



So what is TIME, really?

And why do we experience TIME the way we do?

YET, modern physics suggests that there are a number of ways in which time is actually quite different from the way we think about it...



There is no other NOUN in the English language that we use more often. So you would think that we know what we are talking about when we talk about time.

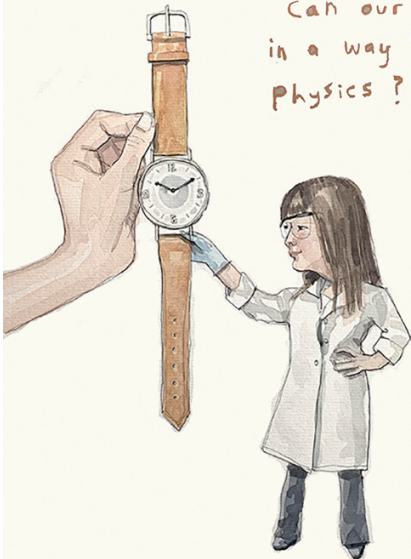


What is TIME really like?

If time is really very different from how we ordinarily experience it or think about it, there is a big QUESTION for future research to answer: why do we experience or think about TIME the way we do?

Can our experience of TIME be explained in a way that is compatible with modern physics?

This is one puzzle for the next generation of scientists to solve!



What is TIME really like?



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