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Relativity Thing ~~Einsteins~~  
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In 1905, Albert Einstein published the theory of special relativity, which explains how to interpret motion between different

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inertial frames of reference  
– that is, places that are  
moving at constant speeds  
relative to each other.

Einstein explained that when  
two objects are moving at a  
constant speed as the  
relative motion between the

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two objects, instead of appealing to the ether as an absolute frame of reference that defined what was going on.

~~Einstein's Special  
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Einsteins Special Relativity Dummies Einstein's theory of special relativity created a fundamental link between space and time. The universe can be viewed as having three space dimensions – up/down, left/right,

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forward/backward – and one  
time dimension. This  
4-dimensional space is  
referred to as the space-  
time continuum. Einstein's  
...

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Light is always measured to be moving at the same speed relative to any observer, no matter how fast one observer is moving relative to another. This was an experimental fact by the



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time Einstein was  
formulating his theory. If  
everyone uses the be...

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This part focuses on

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Einstein's great discovery, the special theory of relativity. First, I show you the original theory of relativity, developed by Galileo Galilei, which makes good common sense. (You're on a train that's going 100

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kph, and you walk from the back to the front of the train at 10 kph.

~~Relativity Before Einstein~~  
~~Einstein For Dummies~~

One of the results of the theory of special relativity

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is Einstein's famous equation  $E = mc^2$ . In this formula  $E$  is energy,  $m$  is mass, and  $c$  is the constant speed of light. An interesting result of this equation is that energy and mass are related. Any change

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in an object's energy is also accompanied by a change in mass.

~~Physics for Kids: Theory of Relativity~~

In 1905, Albert Einstein determined that the laws of

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physics are the same for all non-accelerating observers, and that the speed of light in a vacuum was independent of the motion of all observers....

~~Einstein's Theory of General~~

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~~Relativity: A Simplified ...~~

In physics, the special theory of relativity, or special relativity for short, is a scientific theory regarding the relationship between space and time. In Albert

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Einstein's original treatment, it is based on two postulates: . the laws of physics are invariant (i.e., identical) in all inertial frames of reference (i.e., non-accelerating frames of reference); and



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~~Special relativity~~

~~Wikipedia~~

Special relativity indicates that, for an observer in an inertial frame of reference, a clock that is moving relative to them will be

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measured to tick slower than a clock that is at rest in their frame of reference. This case is sometimes called special relativistic time dilation. The faster the relative velocity, the greater the

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time dilation between one  
another, with the rate of  
time reaching ...

~~Time dilation - Wikipedia~~

This 4-dimensional  
coordinate system, developed  
by Einstein's old professor

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Hermann Minkowski, was called space-time, and came out of Einstein's 1905 theory of special relativity. As Einstein generalized this theory, creating the theory of general relativity in 1916,

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he was able to include gravity in his explanations of motion.

~~String Theory and Einstein's  
Law of Gravity - dummies~~  
relativity: Special  
relativity. Scientists such

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as Austrian physicist Ernst Mach and French mathematician Henri Poincaré had critiqued classical mechanics or contemplated... Special relativity is limited to objects that are moving with respect to

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inertial frames of reference—i.e., in a state of uniform motion with respect to one another such that one cannot, by purely mechanical experiments, distinguish one from the other.

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~~special relativity +  
Definition & Equation +  
Britannica~~

Einstein's special theory of relativity (special relativity) is all about what's relative and what's



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absolute about time, space, and motion. Some of Einstein's conclusions are rather surprising. They are nonetheless correct, as numerous physics experiments have shown.

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~~Special relativity «~~

~~Einstein Online~~

Offered by Stanford

University. In this course

we will seek to “understand

Einstein,” especially

focusing on the special

theory of relativity that

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Albert Einstein, as a twenty-six year old patent clerk, introduced in his “miracle year” of 1905. Our goal will be to go behind the myth-making and beyond the popularized presentations of relativity in order to gain

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a deeper understanding of

...

~~Understanding Einstein: The  
Special Theory of Relativity~~

~~...~~

Einstein's equation  $E = mc^2$   
shows that energy and mass

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are interchangeable. (Image:

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theory of special relativity

explains how space and time

are linked for objects...

~~Einstein's Theory of Special~~

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~~Relativity | Space~~

Einstein's theories of relativity are the foundation for much of modern physics - small wonder that there is a sizeable number of Nobel prizes related to

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relativity. Here's a list with brief descriptions of the most important ones:  
1921 - Albert... read the spotlight... The dark heart of the Milky Way

~~Einstein Online~~

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Simple Relativity is a 2D short educational animation film. The film is an attempt to explain Albert Einstein's Special Theory of Relativity with a simpler v...

~~Simple Relativity~~



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~~Understanding Einstein's  
Special...~~

Genius demystified, the  
Dummies way! In 1905, Albert  
Einstein revolutionized  
modern physics with his  
theory of relativity. He  
went on to become a

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twentieth-century icon—a man whose name and face are synonymous with "genius."

Now, at last, ordinary readers can explore Einstein's life and work in this new For Dummies guide.

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1The mathematical fundamentals of the special theory of relativity are to be found in the original papers of H. A. Lorentz, A. Einstein, H.

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Minkowski, \*published under the title Das Relativitätsprinzip (The Principle of Relativity) in B. G.

Teubner's collection of monographs Fortschritte der mathematischen

Wissenschaften (Ad- vances

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in the Mathematical Sciences), also in M. Laue's exhaustive book Das Relativitäts prinzip – published by Friedr.

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