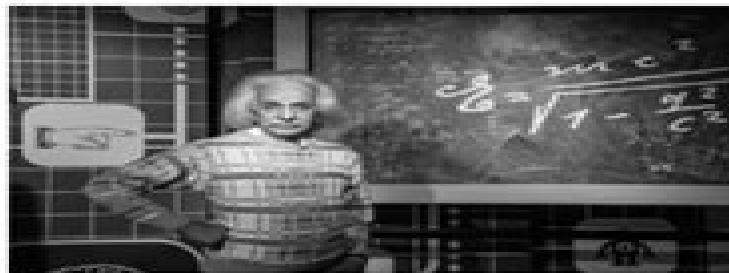


# Albert Einstein

## The Theory of Relativity

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In 1915, Albert Einstein revolutionized physics. He described in the General Theory of Relativity how gravity arises when space and time writhe.



In November 1915 Albert Einstein explained a radically new world view to the Prussian Academy of Sciences with the General Theory of Relativity. Accordingly, masses and rays of light do not merely move through space and time - space and time themselves merge into a structure that constantly curves and changes. Heavy bodies distort their geometry, even light then runs on curved tracks. Extreme consequences are such exotic objects as black holes, the researchers have not understood until today, or gravitational waves whose direct detection still failed. And how Einstein's cosmos could be reconciled with the equations of quantum physics - this will probably be one of the greatest tasks of theoretical physics of the current century.

The theory of relativity is essentially about experiencing two objects that move relative to one another, hence the name: theory of relativity. The effects of relativity occur only at high speeds, at velocities comparable to the speed of light: time increases, scales shorten, and the mass of the moving object increases. This is described in the "special theory of relativity". The second possibility: they occur in the presence of large masses. This is described in the "general theory of relativity".

In addition:  $E = mc^2$ , which means that energy is "equivalent" to the mass. Energy can be converted to mass, and vice versa. This is the so-called "mass defect". When light atomic nuclei fuse (hydrogen to helium), the final product is slightly lighter, some of the mass has been converted to energy and

released. Or when heavy atomic nuclei decay - some of the mass has been converted to energy, the end products are slightly lighter than all the ingredients.

### How come?

Before the theory of relativity existed, it was thought that space and time are absolute. They do not change. They went in search of the "absolute cosmic platform", something to which one can relate his speed. As a person on the train goes at 5 km / h. But compared to the platform at 105 km / h, when the train itself runs at 100 km / h. It was thought that the "ether" would be such a suitable quiet thing. It fills the entire universe, is absolutely transparent, because the light penetrates, and is the carrier of light, which has a very high speed - so the ether would have to be extremely "tough", because only so a substance allows such high speeds. Michelson-Morley set out with a famous experiment to search for this ether - and they proved that it does not exist. There is therefore no absolute speed, only relative speeds of objects to each other. If you think that over, and Einstein did that, you get very peculiar results that made a change in the physical world picture necessary.

### The requirements

The theory of relativity assumes that the speed of light is always and everywhere the same: around 300,000 km / s. That's 7 1/2 times around the earth in one second. And in addition, something amazing: Whether you fire a flashlight from a fast spaceship, or from a moving train, or from the armchair in the room - it always has this timidity. From this Einstein concluded:

### Details

When a traveler moves relative to an observer, the observer will notice:

1. The time of the traveler is extended.
2. Its distances in flight direction are shortened.
3. The mass of the traveler increases.
4. The "simultaneity" is also not very clear. What is simultaneous, when light needs time to move through the universe?

These are the effects of the "special theory of relativity". It describes the behavior of space and time from the point of

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**Daniel F McAuley**



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## **Table of Contents Albert Einstein Report Paper**

1. Understanding the eBook Albert Einstein Report Paper
  - The Rise of Digital Reading Albert Einstein Report Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Albert Einstein Report Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Albert Einstein Report Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Albert Einstein Report Paper
  - Personalized Recommendations
  - Albert Einstein Report Paper User Reviews and Ratings
  - Albert Einstein Report Paper and Bestseller Lists
5. Accessing Albert Einstein Report Paper Free and Paid eBooks
  - Albert Einstein Report Paper Public Domain eBooks
  - Albert Einstein Report Paper eBook Subscription Services
  - Albert Einstein Report Paper Budget-Friendly Options

6. Navigating Albert Einstein Report Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Albert Einstein Report Paper Compatibility with Devices
  - Albert Einstein Report Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Albert Einstein Report Paper
  - Highlighting and Note-Taking Albert Einstein Report Paper
  - Interactive Elements Albert Einstein Report Paper
8. Staying Engaged with Albert Einstein Report Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Albert Einstein Report Paper
9. Balancing eBooks and Physical Books Albert Einstein Report Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Albert Einstein Report Paper
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Albert Einstein Report Paper
  - Setting Reading Goals Albert Einstein Report Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Albert Einstein Report Paper
  - Fact-Checking eBook Content of Albert Einstein Report Paper
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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