

# My First Latex Document

Rana Universe\*

August 2025



Figure 1: Rana Universe logo in black circle

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The mass-energy equivalence is described by the famous equation

$$E = mc^2$$

discovered in 1905 by Albert Einstein. In natural units ( $c = 1$ ), the formula expresses the identity

$$E = m \tag{1}$$

The well known Pythagorean theorem  $x^2 + y^2 = z^2$  was proved to be invalid for other exponents. Meaning the next equation has no integer solutions:

$$x^n + y^n = z^n$$

Here is a famous quote:

In physics, the mass-energy equivalence is stated by the equation  $E = mc^2$ , discovered in 1905 by Albert Einstein.

And now back to the main text.  
Standard L<sup>A</sup>T<sub>E</sub>X practice is to write inline math by enclosing it between `\(...\)`:

In physics, the mass-energy equivalence is stated by the equation  $E = mc^2$ , discovered in 1905 by Albert Einstein.

Instead of writing (enclosing) inline math between `\(...\)` you can use `$...$` to achieve the same result:

In physics, the mass-energy equivalence is stated by the equation  $E = mc^2$ , discovered in 1905 by Albert Einstein.

Or, you can use `\begin{math}...\end{math}`:

In physics, the mass-energy equivalence is stated by the equation  $E = mc^2$ , discovered in 1905 by Albert Einstein.

The equation  $a + b = c$  is simple.

$$a^2 + b^2 = c^2$$

$$a + b = c \tag{2}$$

$$a^2 + b^2 = c^2 \tag{3}$$

$$a^3 + b^3 = c^3 \tag{4}$$

$$a^4 + b^4 = c^4 \tag{5}$$

$$a + b, \quad a - b, \quad a \times b, \quad a \div b$$

$$a + b, \quad a - b, \quad a \times b, \quad a \div b$$

$$a + b, \quad a - b, \quad a \times b, \quad a \div b$$

I love this Upper Examples.



Hello, **Rana**!  
Hello, **Universe**!  
Hello, **RanaUniverse**!

I am Rana Universe...(1)  
I am Rana Universe...(2)  
I am Rana Universe...(3)  
I am Rana Universe...(4)  
I am Rana Universe...(5)  
I am Rana Universe...(6)  
I am Rana Universe...(7)  
I am Rana Universe...(8)  
I am Rana Universe...(9)

1. I am Rana Universe...
  1. I am Rana Universe...
2. I am Rana Universe...
  2. I am Rana Universe...
3. I am Rana Universe...
  3. I am Rana Universe...
4. I am Rana Universe...
  4. I am Rana Universe...
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9. I am Rana Universe...
  9. I am Rana Universe...

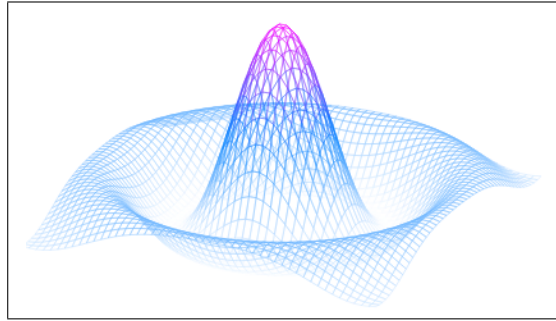


Figure 2: **A nice plot.**

As you can see in **Figure 2**, the function grows near the origin. This example is on page 7.

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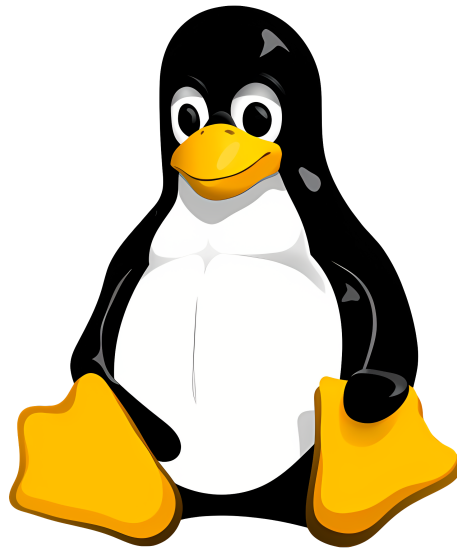


Figure 3: **Linux Logo**

Now in *Figure 3*, you can see the famous Linux logo. This is shown on page 7.

I am Rana Universe...  
I am Rana Universe...  
I am Rana Universe...  
I am Rana Universe...  
I am Rana Universe...  
I am Rana Universe...  
I am Rana Universe...  
I am Rana Universe...  
I am Rana Universe...

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