

First document

Michael Fedell *

January 2019

We now have a title prepared with author and date. This L^AT_EX document is starting to look great!

*sourced from overleaf.com

Some of the **greatest** discoveries in science were made by ***accident***.

In case you didn't catch that,

Some of the greatest *discoveries* in science were made by accident.

Some of the greatest discoveries in science were made by accident.

Some of the greatest *discoveries* in science were made by accident.

The universe is immense and it seems to be homogeneous, in a large scale, everywhere we look.



There's a picture of the moon above

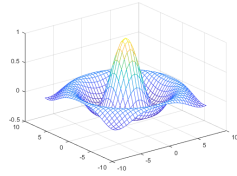


Figure 1: a nice plot

As you can see in the figure 1, the function grows near 0. Also, in the page 4 is the same example.

- The individual entries are indicated with a black dot, a so-called bullet.
 - The text in the entries may be of any length.
1. This is the first entry in our list
 2. The list numbers increase with each entry we add

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

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

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

Subscripts in math mode are written as a_b and superscripts are written as a^b . These can be combined and nested to write expressions such as

$$T_{j_1 j_2 \dots j_q}^{i_1 i_2 \dots i_p} = T(x^{i_1}, \dots, x^{i_p}, e_{j_1}, \dots, e_{j_q})$$

We write integrals using \int and fractions using $\frac{a}{b}$. Limits are placed on integrals using superscripts and subscripts:

$$\int_0^1 \frac{1}{e^x} = \frac{e - 1}{e}$$

Lower case Greek letters are written as ω δ etc. while upper case Greek letters are written as Ω Δ .

Mathematical operators are prefixed with a backslash as $\sin(\beta)$, $\cos(\alpha)$, $\log(x)$ etc.