

Hello, World

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Here's your obligatory 'hello': "Hello. Welcome to L<sup>A</sup>T<sub>E</sub>X." T<sub>E</sub>X is the basic language, Developed by Donald Knuth. L<sup>A</sup>T<sub>E</sub>X is a way handy extension to T<sub>E</sub>X. So, basic syntax probably applies to both. Once we get into packages, I've not clue, as yet, so, I'll just be talking about L<sup>A</sup>T<sub>E</sub>X.

Easiest way to compile to PDF is using `pdflatex`.

## 1 Math

And now, some math. Remember,  $\sum_{i=1}^m i = \frac{m(m+1)}{2}$ , along with identities for sums, and the sum of a geometric series. You'll be needing them.

Also recall these gems, you'll be needing them, too:

$$b^{\log_b x} = x$$

$$\log_b b^x = x$$

$$\log_b xy = \log_b x + \log_b y$$

$$\log_b x/y = \log_b x - \log_b y$$

$$\log_b x^n = n \log_b x$$

So,

$$x^{\log_b y} = y^{\log_b x}$$

## El Fin du Monde

And that's it for now. See section 1.