

The un-starred version `equation` add numerical tags automatically.

$$e^{i\pi} + 1 = 0. \tag{1}$$

Even if you don't add a label, the equation is still numbered.

$$f(x) = (x + 1)^2 \tag{2}$$

$$= x^2 + 2x + 1. \tag{3}$$

So you use `\notag` to disable numbering on specific lines.

$$\begin{aligned} V - E + F &= 2, \\ E &= mc^2. \end{aligned} \tag{4}$$

note that each line has a punctuation.

(1) is Euler's identity.

(3) is the quadratic version of binomial theorem.

(4) is Einstein's mass-energy equivalence.

Compile twice to get numbers right.