

My First Document

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1 Introduction

Hello World!

1.1 Subsection

Structuring a document is easy!

1.1.1 An even smaller section

More text.

Some paragraph text

Some subparagraph text.

2 Math Equations

Here is a formula block using output Equation:

$$f(x) = x^2$$

This formula $f(x) = x^2$ is an example of an inline equation.
And another block using output align

$$\begin{aligned} 1 + 2 &= 3 \\ 1 &= 3 - 2 \end{aligned}$$

3 Fractions and more

$$\begin{aligned} f(x) &= x^2 \\ g(x) &= \frac{1}{x} \\ F(x) &= \int_b^a \frac{1}{3} x^3 \end{aligned}$$

4 Matrices

Here is an example of building a matrix.

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \tag{1}$$

5 Brackets and Parenthesis

Both brackets and parenthesis can be scaled in math mode like this:

$$\left(\frac{1}{\sqrt{x}}\right) \tag{2}$$