

Using LaTeX in a Markdown document.

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## Using Markdown

Mathematical formulas:

The Yzane extension seems not to be able to handle math formulas but pandoc works. For example, to process this file you would use:

```
pandoc Markdown.md -o Markdown.pdf
```

So, here is a math formula. I originally had the double dollar sign at the very beginning and end of the equation, i.e on the same line. But it works just fine if you put the starting dollars on one line, then the equation on the next line and the closing dollars beneath them.

More than one equation can be put inside the dollar signs although some way to put them on separate lines is needed. I experimented with using begin and end equation and found that this works just fine and when using them the dollar signs aren't needed.

So here we are: a markdown file can be easily created, turned into a pdf file and can contain mathematics! Hooray.

$$\int_{\Omega} \nabla u \cdot \nabla v \, dx = \int_{\Omega} f v \, dx \tag{1}$$

$$\int_{\Omega} \nabla u \cdot \nabla v \, dx = \int_{\Omega} f v \, dx \tag{2}$$

If you put asterisks at the end of the word 'equation' then the equations are not numbered. However, this bit of LaTeX needs a preamble at the top of the markdown which includes the amsmath package.

$$\int_{\Omega} \nabla u \cdot \nabla v \, dx = \int_{\Omega} f v \, dx$$

$$\int \sin(x) dx = \cos(x)$$

If you put the two equations in separate begin and end dollars (2 at the start and 2 at the end), it looks exactly the same as the previous example. It is much quicker to type and doesn't need the amsmath package.

$$\int_{\Omega} \nabla u \cdot \nabla v \, dx = \int_{\Omega} f v \, dx$$

$$\int \sin(x) dx = \cos(x)$$

The following left aligns equations:

$$\begin{aligned} a &= mb + c \\ \int \cos(x) dx &= \sin(x) \\ \int_{\Omega} \nabla u \cdot \nabla v \, dx &= \int_{\Omega} f v \, dx \end{aligned}$$

So, on to other things than maths.

## Links

Also check out this link: [LaTeX introduction](#).

The link is a real link that works although maybe it needs some formatting such as an underline or blue colour?