

# Markdown to Jupyter notebook example

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Here is a SugarTeX example with eq. 1 and fig. 1.

See [PDF of this source](#) if you do not have [excellent Unicode support](#).

$$\begin{aligned}\nabla \times \mathbf{B} - \frac{1}{c} \frac{\partial \mathbf{E}}{\partial t} &= \frac{4\pi}{c} \mathbf{j} \\ \nabla \cdot \mathbf{E} &= 4\pi\rho \\ \nabla \times \mathbf{E} + \frac{1}{c} \frac{\partial \mathbf{B}}{\partial t} &= \mathbf{0} \\ \nabla \cdot \mathbf{B} &= 0\end{aligned}, \quad (1)$$

where  $\mathbf{B}, \mathbf{E}, \mathbf{j}: \mathbb{R}^4 \rightarrow \mathbb{R}^3$  – vector functions of the form  $(t, x, y, z) \mapsto \mathbf{f}(t, x, y, z)$ ,  $\mathbf{f} = (f_x, f_y, f_z)$  .

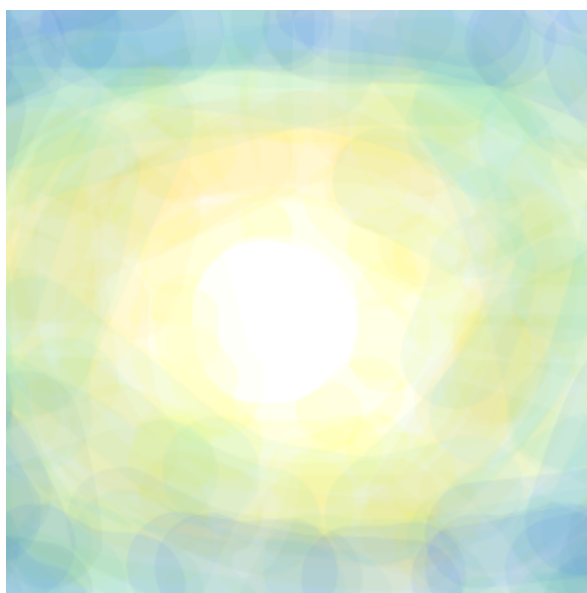


Figure 1: Sample image with cross-references.

In this version of Pandoc image caption fig. 1 works.

```

from IPython.display import Markdown
import pandas as pd
import numpy as np
import tabulatehelper as th

df = pd.DataFrame(np.random.random(16).reshape(4, 4))

Markdown(f'''
{th.md_table(df)}
: Table {{#tbl:table1}}
''')

```

Table 1: Table

| 0         | 1         | 2        | 3        |
|-----------|-----------|----------|----------|
| 0.357141  | 0.0411247 | 0.190639 | 0.48569  |
| 0.90898   | 0.57982   | 0.59817  | 0.526425 |
| 0.490945  | 0.636055  | 0.31837  | 0.663284 |
| 0.0475164 | 0.273571  | 0.895778 | 0.917879 |

Text and tbl. 1

```

import pandas as pd
import numpy as np
df = pd.DataFrame(np.random.random(16).reshape(4, 4))
df

```

## Title

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Text and tbl. 2

Table 2: Table

| a | b | c | d |
|---|---|---|---|
| 1 | 2 | 3 | 4 |

```
print('Hello!')
```