# Markdown to Jupyter notebook example

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

See PDF of this source if you do not have excellent Unicode support.

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

where $\mathrm{B}, \mathrm{E}, \mathrm{j} : \mathrm{R}^4 \to \mathrm{R}^3$ – vector functions of the form $(\mathrm{t}, \mathrm{x}, \mathrm{y}, \mathrm{z}) \mapsto \mathrm{f}(\mathrm{t}, \mathrm{x}, \mathrm{y}, \mathrm{z}),\ \mathrm{f} = (\mathrm{f}_\mathrm{x}, \mathrm{f}_\mathrm{y}, \mathrm{f}_\mathrm{z}).$

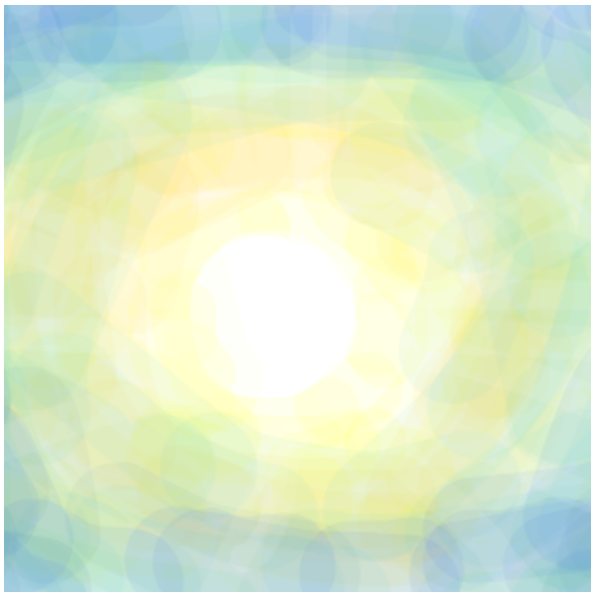

Figure 1: Sample image with cross-references.

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 |
|---|---|---|---|
| 0.275041 | 0.705324 | 0.976378 | 0.509691 |
| 0.105297 | 0.497843 | 0.800654 | 0.174369 |
| 0.0286042 | 0.186957 | 0.10097 | 0.546108 |
| 0.105052 | 0.854848 | 0.506983 | 0.156496 |

Text and tbl. 1

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

# Title

Text and tbl. 2

Table 2: Table

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

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