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.

$$\nabla \times \mathbf{B} - \frac{1}{c} \frac{\partial \mathbf{E}}{\partial t} = \frac{4\pi}{c} \mathbf{j}$$

$$\nabla \cdot \mathbf{E} = 4\pi \rho$$

$$\nabla \times \mathbf{E} + \frac{1}{c} \frac{\partial \mathbf{B}}{\partial t} = \mathbf{0}$$

$$\nabla \cdot \mathbf{B} = 0$$
(1)

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

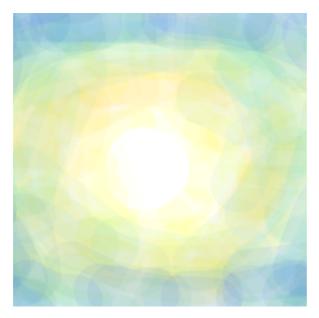


Figure 1: Sample image with cross-references.

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
0.453296	0.0875611	0.640504	0.393137
0.958592	0.536768	0.573894	0.593101
0.119861	0.955121	0.703577	0.830008
0.235795	0.865934	0.616236	0.593046

Text and tbl. 1

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

```
# R cell:
x <- c(10, 20)
x[1]
```

10

Header

```
x <- c(10, 20)
x[1]
```

10

Markdown text with SugarTeX formula: $\alpha^{3.142}$. It works because of the Markdown display option and SugarTeX Pandoc filter.

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