Pandoc Filter to Insert Arbitrary Complex Tables

Outputs: Web Page¹ / LaTeX² / PDF³ / Overleaf⁴

Dependencies

Make sure you have Pandoc and pandoc-crossref⁵ installed (callable from cmd).

Usage

Write your complex tables in HTML in tables.html and in LaTeX in tables.tex. https://tablesgenerator.com is a good resource for constructing complex tables. To insert tables into the output HTML/LaTeX document, use the syntax <COMMENT> tbl:table-id <COMMENT> to mark the beginning and <COMMENT> END <COMMENT> to mark the end of a table definition in tables.html and tables.tex. <COMMENT> corresponds to % in LaTeX and <!-- and --> in HTML. tbl:table-id is the identifier of the table used for cross-referencing in the markdown source. Refer to pandoc-crossref⁶ for details of cross referencing tables.

To compile the documents, apply the filter custom-table.py AFTER pandoc-crossref in the command line.

```
pandoc -F pandoc-crossref --lua-filter insertTables.lua README.md -o README.tex pandoc -F pandoc-crossref --lua-filter insertTables.lua README.md -o README.html
```

Example

See Table 1.

¹https://yongfu.name/insertTables/

²https://yongfu.name/insertTables/README.tex

³https://yongfu.name/insertTables/README.pdf

 $^{^4} https://www.overleaf.com/docs?snip_uri=https://yongfu.name/insertTables/READM E.tex&engine=xelatex$

 $^{^5} https://github.com/lierdakil/pandoc-crossref$

⁶https://github.com/lierdakil/pandoc-crossref

Table 1: This is a complex table, written in tables.tex and tables.html.

	Column Span				
Row Span	a	b	d	f	
	\mathbf{c}	d	e	g	

Table 2: This is a normal table written in markdown, which will not be replaced.

Column A	Column B
A1	B1
A2	B2

Custom Caption Positions

By default, insertTables.lua looks for the string \begin{tabular and inserts the caption before it. In circumstances where \begin{tabular} or \begin{tabularx} are not present in the table's code, this filter will fail. To deal with these cases, you have to tell insertTables.lua where to insert the caption by placing the anchor %caption% in your table's code. This may also be useful when you want to place the caption below the table body. This can be achieved by placing the anchor %caption% after the tabular environment:

which results in Table 3 (this could only be seen in tex⁷ or PDF⁸ output).

	Column Span				
Row Span	a	b	d	f	
	\mathbf{c}	d	e	\mathbf{g}	

Table 3: For LaTeX tables, you can define the position of the caption with the string %caption% in tables.tex.

⁷https://yongfu.name/insertTables/README.tex

⁸https://yongfu.name/insertTables/README.pdf