The marmermaidtex package*

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1 Introduction

Mermaid is a Javascript based diagramming and charting tool that uses Markdown-inspired text definitions and a renderer to create and modify complex diagrams.

There is no implemation for using mermaid files in latex. So I decide to try it with this package.

2 Preconditions

- Install mermaid.cli http://github.com/mermaid-js/mermaid-cli#Install-globally
 For instance: npm install -g mermaid.cli
- 2. pdflatex available with command line parameter: --shell-escape.

3 Usage

3.1 LaTeX minimal example

marmermaidtex

^{*}This document corresponds to marmer maidtex v0.01, dated 2022-01-24.

```
C -->|Three| F[fa:fa-
\end{marmermaidtex}
\end{document}
```



4 Implementation

marmermaidtex This is a dummy environment. If it did anything, we'd describe its implementation here

1 \newenvironment{marmermaidtex}[2][]{

Before:

define a new varible for keys for

2 \def\@graphicsopts{#1}

define a new varible for parameter for file name

3 \def\tempFilenameMermaidPdf{#2}

to save code to file

- 4 \csname filecontents*\endcsname[overwrite]{\tempFilenameMermaidPdf.tmp}
- 5 }

6 {

After:

7 \csname endfilecontents*\endcsname

check if pftlatex is in use

8 \ifpdf

call node mmdc

- $9 \label{lem:problem$
- 10 \else
- 11 \errmessage{ You aren't using pdflatex}
- 12 **\fi**

include generated image to tex file

 $13 \verb| vexpandafter[\@graphicsopts]{ \verb| tempFilenameMermaidPdf| } \\$

14 }