The marmermaidtex package*

Markus Pabst

January 26, 2022

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 Definition for a new enivornment and call it marmermaidtex.

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

Refore

define a new varible for keys for

 $2 \ensuremath{\mbox{\tt def}\mbox{\tt @graphicsopts{\tt \#1}}}$

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 \immediate\write18{mmdc -i \tempFilenameMermaidPdf.tmp -f -o \tempFilenameMermaidPdf}
- 11 \errmessage{ You aren't using pdflatex}
- 12 **\fi**

include generated image to tex file

13 \expandafter\includegraphics\expandafter[\@graphicsopts] {\tempFilenameMermaidPdf} 14 }