

The marmermaidtex package*

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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 implementation for using mermaid files in latex. So I decide to try it with this package.

2 Preconditions

1. 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

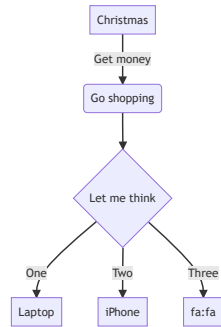
```
\documentclass[]{article}
\usepackage{marmermaidtex}
\begin{document}
\begin{marmermaidtex}[width=.25\textwidth]{foo1.pdf}
  graph TD
    A[Christmas] -->|Get money| B(Go shopping)
    B --> C{Let me think}
    C -->|One| D[Laptop]
    C -->|Two| E[iPhone]
```

*This document corresponds to marmermaidtex v0.2, dated 2022-01-26.

```

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

```



4 Implementation

`marmermaidtex` Definition for a new environment and call it `marmermaidtex`.

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

Before:

define a new variable for keys for

```
2 \def\@graphicsopts{#1}
```

define a new variable 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}
```

```
10 \else
```

```
11 \errmessage{ You aren't using pdflatex}
```

```
12 \fi
```

include generated image to tex file

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

```
14 }
```

Change History

v0.1		v0.2
General: Initial version	1	General: Fix for xelatex 1