The marmermaidtex package*

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1 Introduction

> Mermaid lets you create diagrams and visualizations using text and code. It is a Javascript based diagramming and charting tool that renders Markdown-inspired text definitions to create and modify diagrams dynamically.

There is no implemation 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`
2. You have add to pdflatex –**shell-escape** command.

3 Usage

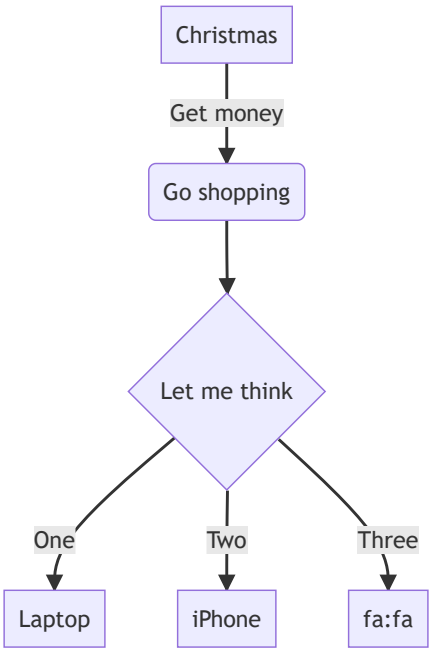
`marmermaidtex`

```
\usepackage{marmermaidtex}

\begin{document}
\begin{marmermaidtex}[width=.5\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]
         C -->|Three| F[fa:fa-
\end{marmermaidtex}
```

*This document corresponds to marmermaidtex v0.01, dated 2022-01-24.

```
\end{document}
```



4 Implementation

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

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

Before:
define a new varible for keys for

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

define a new varible for parameter for file name

```
\def\tempFilenameMermaidPdf{#2}
```

to save code to file

```
\csname filecontents*\endcsname[overwrite]{\tempFilenameMermaidPdf.tmp}
}
{
```

After:

```
\csname endfilecontents*\endcsname
```

check if pftlatex is in use

```
\ifpdf
```

call node mmdc

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

include generated image to tex file

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