

tikztosvg(1)

The `tikztosvg(1)` command renders TikZ diagrams to SVG, using TeXLive and `pdf2svg`.

Usage

```
$ tikztosvg [OPTION]... INPUT_PATH
```

If `INPUT_PATH` is set to `-` the input will be read from stdin.

Options

-o, --output=*OUTPUT_PATH*

Write output to file *OUTPUT_PATH*. If set to `-` the output will be written to stdout. Defaults to the base name of the input file suffixed with the `.svg` extension. The file is resolved relative to the working directory.

-p, --package=*+PACKAGE*

Include `\usepackage{PACKAGE}` when rendering the diagram. The `tikz`, `tikz-cd`, `pgfplots`, `amsmath` and `amssymb` packages are always included by default.

-l, --library=*+LIBRARY* Include `\usetikzlibrary{LIBRARY}` when rendering the diagram.

-q, --quiet

Silence application log messages and script warnings.

--lualatex Use LuaTeX as the TeX engine. LuaTeX is already the default, so this option doesn't really do much.

--xelatex Use XeTeX as the TeX engine.

--pdflatex Use pdfTeX as the TeX engine.

-h, --help

Print a help message.

-v, --version

Print version information.

Example

Let's say you want to convert the file `example.tikz` to SVG

```
\begin{tikzcd}
      G \arrow{r}{\varphi} \arrow[two heads]{d} & H \\
\mathlarger{\sfrac{G}{\ker \varphi}} \arrow[dotted]{ru} & & 
\end{tikzcd}
```

You could achieve this by running

```
$ # xfrac and relsize are only there so that we can
$ # call \sfrac and \mathlarger
$ tikztosvg -p xfrac -p relsize example.tikz
```

The results will be stored in the file `example.svg`.

Dependencies

- A regular TeXLive installation: you'll need LuaTeX and optionally XeTeX and pdfTeX
- pdf2svg

Installation

The `tikztosvg(1)` command and its man page can be installed in Unix systems via Git by running

```
$ git clone https://git.sr.ht/~pablo-pie/tikztosvg
$ cd tikztosvg
$ sudo make install
```

The `BIN_TARGET` Make variable (defaults to `/usr/bin/`) controls the directory the binary is installed in, while the `MAN_TARGET` Make variable (defaults to `/usr/share/man/man1/`) controls the directory the man page is installed in.

Resources

Git source repository on sourcehut: <https://git.sr.ht/~pablo-pie/tikztosvg>

Bug tracker: <https://todo.sr.ht/~pablo-pie/tikztosvg>

CTAN package: <https://www.ctan.org/pkg/tikztosvg>

TeXLive <https://tug.org/texlive/>

LuaTeX <http://luatex.org/>

XeTeX <http://xetex.sourceforge.net/>

pdfTeX <https://www.tug.org/applications/pdftex/>

Authors

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`pdf2svg` was written by David Barton and Matthew Flaschen.

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