

# plantuml

Version 0.2.2

A LuaLaTeX package for PlantUML in LaTeX

PlantUML is a program which transforms text into UML diagrams. This package allows for embedding PlantUML diagrams using the PlantUML source.

Currently, this project runs with lualatex only. Check issue #1 for the current state of affairs for support pdflatex.

## Preconditions

1. Environment variable PLANTUML\_JAR set to the location of `plantuml.jar`. You get it from <https://sourceforge.net/projects/plantuml/files/plantuml/jar/download>.
2. Environment variable GRAPHVIZ\_DOT set to the location of `dot.exe`. Example: `C:\Program Files (x86)\Graphviz2.38\bin\dot.exe`. You can install graphviz using `choco install graphviz`.
3. lualatex available with command line parameter `-shell-escape` included.
4. In case you want to have the images as PDFs (and not using TikZ or PNG), ensure that `inkscape.exe` and `pdfcrop` are in your path. You can get inkscape using `choco install inkscape`. `pdfcrop` should be part of your latex distribution.

## Examples

### Minimal Example

LaTeX source:

```
\documentclass{scrartcl}
\usepackage{plantuml}
\begin{document}
\begin{plantuml}
@startuml
Alice -> Bob: test
@enduml
\end{plantuml}
\end{document}
```

Compilation: `lualatex -shell-escape example-minimal`

Result:

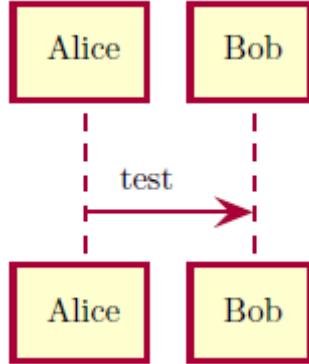


Figure 1: Minimal example

### Example Class Relations Rendered Using SVG

**LaTeX source:**

```

\documentclass{scrartcl}
\usepackage{graphics}
\usepackage{epstopdf}
\epstopdfDeclareGraphicsRule{.svg}{pdf}{.pdf}%
  {inkscape -z --file=#1 --export-pdf=\OutputFile
}
\usepackage[output=svg]{plantuml}
\begin{document}
\begin{plantuml}
@startuml
class Car

Driver -> Car : drives >
Car *-- Wheel : have 4 >
Car --> Person : < owns
@enduml
\end{plantuml}
\end{document}

```

**Compilation:** lualatex -shell-escape example-class-relations

**Result:**

### Installation

Your latex distribution should take care.

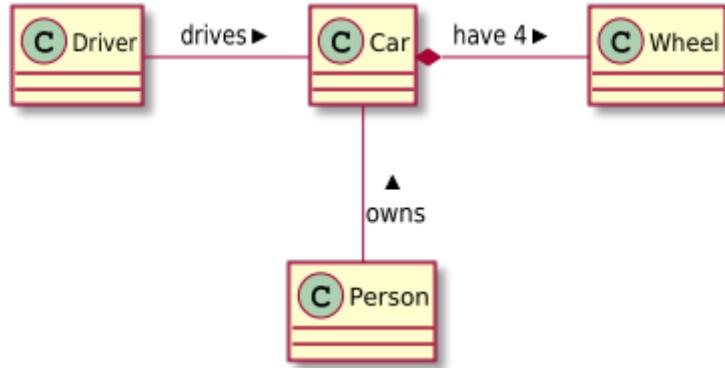


Figure 2: Class relations rendered using SVG

For manual installation, copy `plantuml.*` to your local `texmf` folder in the subdirectory `tex/latex/plantuml`. See the discussion at `tex.sx` for the concrete location of the folder on your system.

## Development

The release is built at CircleCI using `release.sh`.

Release preparation:

1. Adapt date and version number in `plantuml.sty`.
2. Adapt `CHANGELOG.md`.
3. Set a git tag and push.

## Alternative Solutions

TikZ-UML is a very powerful package based in TikZ. More alternative solutions are collected at the CTAN topic UML.

## License

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