

auto-pst-pdf-lua, v. 0.03a using Lua^AT_EX with PSTricks

Herbert Voß

March 21, 2023

The package is based on auto-pst-pdf and uses for the latex run the program dvi_{lua}latex. The package can have all optional arguments which are possible for auto-pst-pdf. For all PSTricks examples the package should be loaded with the following optional arguments:

```
\usepackage[cleanup={},pspdf={-dALLOWPSTRANSparency -dNOSAfer}]{auto-pst-pdf-lua}
```

The possible options are preset to

```
\ExecuteOptionsX{%
  ext=tex,
  crop=on,
  latex={},
  dvips={-Ppdf},
  pdfcrop={},
  cleanup={log,aux,dvi,ps,pdf},
  runs=1,
}
```

1 The example code

```
\documentclass{article}
\usepackage{pst-poker}
\usepackage{auto-pst-pdf-lua}
\ifpdf
  \usepackage{fontspec}
  \usepackage{dejavu-otf}
\else
  \usepackage[T1]{fontenc}
  \usepackage{dejavu}
\fi

\begin{document}

An example for using Luacode:
 $\pi^{\pi}=\directlua{tex.print(math.pi^math.pi)}$ 

An example for PostScript code:

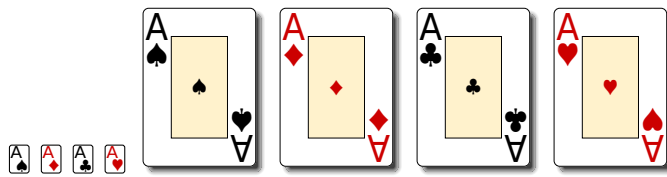
\bigskip
\begin{postscript}
As~\Ad~\Ac~\Ah~\crdAs~\crdAd~\crdAc~\crdAh
\end{postscript}
\end{document}
```

2 The output

And here comes the output when running with `lualatex --shell-escape <file>`:

An example for using Luacode: $\pi^{\pi} = 36.462159607208$

An example for PostScript code:



3 Caveats

When running `dvilualatex` the package `fontspec` cannot be active. If you need it, then just use the `\ifpdf` switch:

```
\ifpdf
  \usepackage{fontspec}% for the luatex run(s)
  \usepackage{dejavu-otf}
\else
  \usepackage[T1]{fontenc}% for the dvilualatex run
  \usepackage{dejavu}
\fi
```