

graphicxwand Package

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Abstract

This package provides Adobe Photoshop Data format (PSD) support for **graphicx** package with **sips** (Darwin/macOS)/**magick** (ImageMagick) command.

1 Motivation

graphicx package supports already many graphics image formats as bellow.

- non-vector formats: jpg, png, bmp, and so on
- PostScript-style formats: eps, ps
- PDF-style formats: pdf, ai

However, it currently does not support Adobe Photoshop Data format (PSD).

Against that, we developed the **graphicxwand** package to support PSD format via PSD-to-PDF conversion with two image converters.

- **sips**: pre-installed command in Darwin/macOS
- **magick**: bundled command in ImageMagick

2 Loading **graphicxwand** Package

Load **graphicxwand** package after loading **graphicx** package.

```
\usepackage{graphicx}  
\usepackage[<options>]{graphicxwand}
```

The list of available options is the following.

- **dvipdfmx**, **xetex**, **pdftex**, **luatex**: supported driver options; You can also give specific driver option from global option.
- **sips** (default), **magick** (same as **imagemagick**), **convert**¹: supported image converters;

- Darwin/macOS users do not have to do anything unless you choose ImageMagick as PSD-to-PDF converter.
- If you use ImageMagick 7, you may choose `magick`.
- If you should use ImageMagick 6 or lower version, you just choose `convert`.
- `cache=true`: supports to include cached images for all PSD files. If there does not exist the cached image for a PSD file, `graphicx` attempts PSD-to-PDF conversion of the PSD file.

3 Example

Typeset the following L^AT_EX document with LuaT_EX enabling the shell escape, that is, run `lualatex -shell-escape`.

```
%#!lualatex -shell-escape
\documentclass[luatex]{article}%%set luatex driver as global option
\usepackage{graphicx}
\usepackage{graphicxwand}
\begin{document}
\includegraphics{testfiles/tigerpsdfmt.psd}
\end{document}
```

Then, the result is as below.



Incidentally, the above `testfiles/tigerpsdfmt.psd` file is converted from the `tiger.eps` file (a.k.a. “cubic spline tiger”), which comes with Ghostscript.

```
$ file testfiles/tigerpsdfmt.psd
testfiles/tigerpsdfmt.psd: Adobe Photoshop Image, 550 x 568, RGBA, 4x 8-bit channels
```

¹When ImageMagick project had released ImageMagick 7, they changed `convert` to `magick` because that might be the usual problem with the conflict of names between the ImageMagick’s `convert.exe` and the Windows “`convert.exe`” program, which complains about invalid parameters, and changing the Imagemagick program’s name to `imconvert` and using that instead avoided the conflict.