

graphicxpsd Package

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Abstract

This package provides Adobe Photoshop Data format (PSD) support for the **graphicx** package using the **sips** (Darwin/macOS) or **magick** (ImageMagick) commands.

1 Motivation

The **graphicx** package already supports many graphics image formats as below.

- 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 the Adobe Photoshop Data format (PSD). To address this, we developed the **graphicxpsd** package to support the PSD format via PSD-to-PDF conversion using two image converters.

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

2 Loading the **graphicxpsd** Package

Load the **graphicxpsd** package after loading the **graphicx** package.

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

The list of available options is as follows:

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

- Darwin/macOS users do not need to do anything unless choosing ImageMagick as the PSD-to-PDF converter.
- If you use ImageMagick 7, choose `magick`.
- If you use ImageMagick 6 or an older version, choose `convert`.
- `cache=true`: enables image caching for all PSD files. If a cached image does not exist for a PSD file, `graphicxpsd` attempts PSD-to-PDF conversion for that file.

3 Example

Typeset the following L^AT_EX document with LuaT_EX by enabling shell escape (i.e., run `lualatex -shell-escape`).

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

The result is shown below.



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

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

¹When the ImageMagick project released ImageMagick 7, they changed the default command to `magick` to avoid naming conflicts with the Windows `convert.exe` utility.