

# 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`<sup>1</sup>: 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<sup>A</sup>T<sub>E</sub>X document with LuaT<sub>E</sub>X 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

```

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