

# The flippdf package\*

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## Abstract

The `pdfflip` package extends `pdfLATEX` and `LuaLATEX` making it possible to typeset a “mirrored” version of the document. This is sometimes required by publishers who use photographic printing processes that need “camera-ready” documents to be printable on transparent films, so that one reads the pages correctly by looking *through* the film with the *unprinted* side of the film towards his eyes. This package requires `everypage` by the same author and works exclusively with `pdfLATEX` and `LuaLATEX` in PDF output mode.

## 1 Introduction

This `LATEX` package makes it possible to typeset a document flipping its pages horizontally. This is sometimes required by publishers who use photographic printing process that need “camera-ready” documents to be printable on transparent films, so that one reads the pages correctly by looking *through* the film (i.e., with the *unprinted* side of the film towards his eyes).

It is also possible to activate the mirroring capability on a page by page basis.

This package requires `everypage` by the same author and works exclusively with `pdfLATEX` and `LuaLATEX` in PDF output mode.

## 2 User interface

By default, once loaded as:

```
\usepackage{pdfflip}
```

the `pdfflip` becomes immediately *active* (i.e., starts flipping horizontally every page). Conversely, by selecting the `off` option as in

```
\usepackage[off]{pdfflip}
```

The package is loaded but remains inactive.

`\FlipPDF` The `\FlipPDF` command lets one switch on page flipping. Conversely, `\UnFlipPDF`  
`\UnFlipPDF` switches off page flipping.

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\*This file (`flippdf.dtx`) has version number 1.1, last revised 2020/10/17.

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## 3 Examples

### 3.1 Plain case

In this example, every page of the document is flipped, relying on the automatic operation mode of the package.

```
1 \documentclass[a4paper]{article}
2 \usepackage{flippdf}
3 \usepackage{lipsum}
4
5 \title{Test document for the flippdf package}
6
7 \begin{document}
8 \maketitle
9 \lipsum[1-5]
10 \end{document}
```

### 3.2 Case with activation and deactivation

In this example, the page flipping is manually activated and deactivated.

```
11 \documentclass[a4paper]{article}
12 \usepackage[off]{flippdf}
13 \usepackage{lipsum}
14
15 \title{Test document for the flippdf package}
16
17 \begin{document}
18
19 \thispagestyle{empty}
20 {\Large Some non-mirrored initial info}
21
22 \bigskip
23
24 \lipsum[1]
25
26 \maketitle
27 \setcounter{page}{1}
28 \FlipPDF
29 \lipsum[2-6]
30
31 \clearpage
32 \UnFlipPDF
33 \thispagestyle{empty}
34 {\Large Some non-mirrored final info}
35
36 \bigskip
37
38 \lipsum[7]
39 \end{document}
```

## 4 Implementation

Announce the name and version of the package, that requires L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> (actually pdfL<sup>A</sup>T<sub>E</sub>X or LuaL<sup>A</sup>T<sub>E</sub>X).

```
40 \NeedsTeXFormat{LaTeX2e}
41 \ProvidesPackage{flippdf}%
42 [2020/10/17 1.1 Horizontal flipping of pages with pdfLaTeX]
    Assure that the dependence on everypage is satisfied.
43 \RequirePackage{everypage}[2007/06/20]
    Depend on iftex and error out if not working in PDF mode
44 \RequirePackage{iftex}
45 \AtBeginDocument{%
46   \ifpdf
47     \relax
48   \else
49     \PackageError{flippdf}{%
50       package only works in pdf output mode}%
51   \fi}
```

`\ifsc@flippdf` Define a boolean variable to remember if pages are to be flipped or not.

```
52 \newif\ifsc@flippdf
```

`\FlipPDF` Define the commands used to switch on and off the horizontal flipping of the document pages.

`\UnFlipPDF`

```
53 \newcommand\FlipPDF{\@sc@flippdftrue}
54 \newcommand\UnFlipPDF{\@sc@flippdffalse}
```

By default activate the flipping:

```
55 \FlipPDF
```

Set up the processing of options:

```
56 \DeclareOption{off}{\UnFlipPDF}
57 \ProcessOptions
```

And eventually, tell L<sup>A</sup>T<sub>E</sub>X to flip every page, by using the `everypage` hook. First consider the case when running in pdfL<sup>A</sup>T<sub>E</sub>X

```
58 \ifpdf
59   \AddEverypageHook{%
60     \ifsc@flippdf
61       \pdfliteral direct {-1 0 0 1 \strip@pt\paperwidth\space 0 cm}%
62     \fi}%
63 \fi
```

Then consider the case when running in LuaL<sup>A</sup>T<sub>E</sub>X

```
64 \ifluatex
65   \AddEverypageHook{%
66     \ifsc@flippdf
67       \pdfextension literal direct {-1 0 0 1 \strip@pt\paperwidth\space 0 cm}%
68     \fi}%
69 \fi
```

## Change History

R1.0b	R1.1
General: Require <code>everypage</code> package to be at least at its 2007/06/20 (R1.1) release. . . . . 3	General: Error out if output mode is not PDF. . . . . 3 Extend package to work also with Lua $\LaTeX$ . . . . . 3

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

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