

The `gfdl` package

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Version 0.1—January 1, 2023

 <https://ctan.org/pkg/gfdl>

 <https://puszcza.gnu.org.ua/bugs/?group=gfdl-tex>

Abstract

The GFDL is a popular license used for programming manuals, documentations & various other textual works too, but using this license with \LaTeX isn't very convenient. This package aims to help users in easily using the license without violating any rules of the license. With a handful of commands, users can rest assured that their document will be perfectly licensed under GFDL.

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The \LaTeX package `gfdl`

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Dedicated to the FSF & it's continuous fight for the freedom of software...

Acknowledgment

I acknowledge my friend Sahil Patel for reviewing the output of this package & suggesting some corrections. I would also like to thank Karl Berry for pointing out some critical issues in my package & suggesting alternative ways of dealing with them. This package modifies & uses a few L^AT_EX-files provided on the web-pages of respective versions of GFDL¹ which are unlicensed & their authors are unknown, but with a few typographic modifications I have used them in the package. I would like to thank FSF/GNU-hackers for providing a basic skeleton of the L^AT_EX-files which I could modify.

1 Documentation

This section describes all the macros & parameters that the package provides.

1.1 Macros

<code>\gfdlcopyrightdescription</code>	<code>\gfdlcopyrightdescription{<i>project-description</i>}</code>
<code>\gfdlcopyrightableyears</code>	<code>\gfdlcopyrightableyears{<i>copyright-able years</i>}</code>
<code>\gfdlcopyrightholders</code>	<code>\gfdlcopyrightholders{<i>copyright-holders</i>}</code>

The names of these macros are pretty self-explanatory. These macros store the information which is then printed automatically at necessary places. Only if one has loaded the `manual` option (documented in section 1.2); they will have to use the macros following this one to print the notice & the license-text.

<code>\printgfdlnotice</code>	This text prints the copyright-notice. L ^A T _E X's float-mechanism is used for printing it. It is printed on the first page of the document with default settings. With option <code>manual</code> user is free to print it anywhere, but not printing it will produce an error.
-------------------------------	--

<code>\printgfdltext</code>	This text prints the entire license text. In default settings this command is run after the last page of the document. With option <code>manual</code> , the user is free to use it anywhere, but not using it will produce an error.
-----------------------------	---

1.2 Options

<code>manual</code>	By default the package prints the copyright-notice along with the license-text of GFDL in the document by default. The former is printed at the bottom of the first page whereas the latter is printed just after the last page. If anyone wants to suppress this behavior & print both of these things anywhere in the document with <code>\printgfdlnotice</code> & <code>\printgfdltext</code> as documented earlier.
---------------------	--

¹GFDLv1.3: <https://www.gnu.org/licenses/fdl-1.3.tex>.
GFDLv1.2: <https://www.gnu.org/licenses/fdl-1.2.tex>.
GFDLv1.1: <https://www.gnu.org/licenses/fdl-1.1.tex>.

1.2.1 Legacy support

The following options are just for legacy support \mathcal{E} should be avoided for newer works. It is advised to use these options only when the document demands certain old conventions which are obsolete these days.

(C) The © symbol was at times written as (C) \mathcal{E} if someone needs to use this style, then they can use this package-option. The package essentially prints this symbol at two places. One in the actual PDF text \mathcal{E} one in it's metadata. At both of these places users will see the change if this option is used. By default this option is inactive.

version `version={version-number}` 1.1, 1.2 or 1.3

1.3 is the current version of GFDL, but there were two old versions before it (i.e., 1.2 \mathcal{E} 1.1). By default the latest version is used, but with this package option, users can select previous versions too. It is important to note that as of now this option does *not* allow any other value than 1.1, 1.2 \mathcal{E} 1.3.

If a newer version is released by the FSF, the default behavior of the package will most likely change to produce the latest version of GFDL at that time. In that case recompiling an old document with the new version of this package will break your documents, but as a developer I find that incompatibility reasonable \mathcal{E} desirable, because I believe using the newer versions of this license will only help the cause for which hackers are fighting.

2 Implementation

Provide package with its basic information.

```
1 <*package>
2 \ProvidesPackage{gfdl}[2023/01/01 v0.1
3 For using the GFDL in LaTeX.]
```

Load necessary packages.

```
4 \RequirePackage{float}
5 \RequirePackage{expkv-def,expkv-opt}
```

Define conditionals which we will be using in the package \mathcal{E} set some initial values for them.

The package issues a warning if copyright-holders aren't declared \mathcal{E} it doesn't print the GFDL-notice in this case, because a copyright-notice without copyright-holders makes no sense. The following conditional is at work for this.

```
6 \newif\ifgfdl@copyrightholdersgiven
7 \gfdl@copyrightholdersgivenfalse
```

With the following code we first define various internal conditionals which we require. We also set their initial values here.

```
8 \newif\ifgfdl@copyrightableyearsgiven
9 \gfdl@copyrightableyearsgivenfalse
10 \newif\ifgfdl@copyrightedmaterialdesc
11 \gfdl@copyrightedmaterialdescfalse
12 \newif\ifgfdl@licensetextnotprinted
```

```

13 \gfdl@licensetextnotprintedtrue
14 \newif\ifgfdl@noticenotprinted
15 \gfdl@noticenotprintedtrue

```

Define package options with `expkv`.

```

16 \ekvdefinekeys{gfdl}{

```

manual The `invbool` type is used to define package option `manual`². We define the conditional `\ifgfdl@printgfdl` with it.

```

17   invbool    manual    = {\ifgfdl@printgfdl},

```

(End definition for `manual`. This function is documented on page 3.)

(C) The following code defines the package option `(C)` which defines an internally used conditional `\ifgfdl@bracketedcopyright`. The default value of this conditional is false.

```

18   bool      (C)      = {\ifgfdl@bracketedcopyright},

```

(End definition for `(C)`. This function is documented on page 4.)

version The following code develops the option `version` which takes three options seen in the documentation. By using the `initial` key-type, we set the initial value of this option to 1.3.

```

19   choice    version   = {%
20     1.1      = {\def\gfdl@version{1p1}},%
21     1.2      = {\def\gfdl@version{1p2}},%
22     1.3      = {\def\gfdl@version{1p3}}%
23   },
24   initial   version   = {1.3}
25 }

```

(End definition for `version`. This function is documented on page 4.)

After developing all the options, we set process them with the following code.

```

26 \ekvoProcessLocalOptions{gfdl}

```

We have used the `bool` type from `expkv` for developing the package option `(C)`. It defines the conditional `\ifgfdl@bracketedcopyright` which is by default false. We use an internal macro, i.e., `\gfdl@copyrightsymbol` for printing the copyright symbol with the following code. We `\let` it be `\textcopyright` when the aforementioned conditional is false & it is defined as `(C)` when the conditional is true (i.e., when the option is explicitly used by the user).

```

27 \ifgfdl@bracketedcopyright
28   \def\gfdl@copyrightsymbol{(C)}%
29 \else
30   \let\gfdl@copyrightsymbol\textcopyright
31 \fi

```

\gfdlcopyrightdescription The following `\NewDocumentCommand` is used to develop this command.

```

32 \NewDocumentCommand{ \gfdlcopyrightdescription }{ m }{%
33   \def\@copyrightedmaterialdesc{#1}%
34   \gfdl@copyrightedmaterialdesctrue
35 }

```

²Read the documentation of `expkv` for explanation.

(End definition for `\gfdlcopyrightdescription`. This function is documented on page 3.)

`\gfdlcopyrightableyears` For this command we have the following code.

```
36 \NewDocumentCommand{ \gfdlcopyrightableyears }{ m }{%
37   \def\@copyrightableyears{#1}%
38   \gfdl@copyrightableyearsgiventrue
39 }
```

(End definition for `\gfdlcopyrightableyears`. This function is documented on page 3.)

`\gfdlcopyrightholders` And lastly, we have this command coded as follows.

```
40 \NewDocumentCommand{ \gfdlcopyrightholders }{ m }{%
41   \def\@copyrightholders{#1}%
42   \gfdl@copyrightholdersgiventrue
43 }
```

(End definition for `\gfdlcopyrightholders`. This function is documented on page 3.)

We issue a warning when copyright-able years are not given. The following code generates the warning. We define the internal macro containing the copyright-able years as `??` in bold font here itself.

```
44 \AddToHook{begindocument/before}{%
45   \ifgfdl@copyrightableyearsgiven
46   \else
47     \def\@copyrightableyears{\textbf{??}}%
48     \PackageWarningNoLine{gfdl}{%
49       Copyright-able years not given. I can't print the
50       \MessageBreak
51       copyright notice without them. To give me this
52       \MessageBreak
53       information use the \string\gfdlcopyrightableyears\space
54       command.\MessageBreak Using `??' as a placeholder%
55     }%
56   \fi
```

The following code is used to check if user has given information about copyright-holders. If not, then we issue a warning with this code & again define the internal macro containing this information as bold `??`.

```
57   \ifgfdl@copyrightholdersgiven
58   \else
59     \def\@copyrightholders{\textbf{??}}%
60     \PackageWarningNoLine{gfdl}{%
61       Copyright-holders not given. I can't print the
62       \MessageBreak
63       copyright notice without them. To give me this
64       \MessageBreak
65       information use the \string\gfdlcopyrightholders\space
66       command.\MessageBreak Using `??' as a placeholder%
67     }%
68   \fi
```

With default settings of this package, `hyperref`, `csquotes` & `hyperxmp` are loaded, but to avoid potential conflicts, we load them conditionally. With the following code this is achieved.

```
69 \@ifpackageloaded{csquotes}{}{%
```

```

70   \RequirePackage{csquotes}%
71   }%
72   \@ifpackageloaded{hyperref}{\{%
73     \RequirePackage{hyperref}%
74   }%
75   \@ifpackageloaded{hyperxmp}{\{%
76     \RequirePackage{hyperxmp}%
77   }%

```

For setting the metadata we use the following code.

```

78   \hypersetup{%
79     pdfcopyright = {%
80       \ifgfdl@copyrightedmaterialdesc
81         \@copyrightedmaterialdesc
82         \textLF
83       \fi
84       Copyright
85       \gfdl@copyrightsymbol\
86       \@copyrightableyears\
87       \@copyrightholders\textLF
88       Permission is granted to copy, distribute and/or
89       modify this document under the terms of the GNU Free
90       Documentation License, Version 1.3 or any later
91       version published by the Free Software Foundation;
92       with no Invariant Sections, no Front-Cover Texts, and
93       no Back-Cover Texts. A copy of the license is included
94       in the section entitled "GNU Free Documentation
95       License".%
96     },%
97     pdflicenseurl = {%
98       https://www.gnu.org/licenses/fdl-1.3.txt%
99     }%
100  }%
101 }

```

Printing the text automatically at the bottom of the first page is achieved with the help of a float. It is developed using package float for the following commands.

```

102 \newfloat{gfdl@float}{b}{delme}

```

`\printgfdlnotice` This command is developed using the following code.

```

103 \NewDocumentCommand{ \printgfdlnotice }{ }{%
104   \begin{gfdl@float}[b!]
105     \hrule\medskip
106     \ifgfdl@copyrightedmaterialdesc
107       \@copyrightedmaterialdesc\par
108     \fi
109     Copyright
110     \gfdl@copyrightsymbol\
111     \@copyrightableyears\
112     \@copyrightholders
113
114     Permission is granted to copy, distribute and/or modify
115     this document under the terms of the GNU Free
116     Documentation License, Version 1.3 or any later version

```

```

117     published by the Free Software Foundation; with no
118     Invariant Sections, no Front-Cover Texts, and no
119     Back-Cover Texts. A copy of the license is included in
120     the section entitled \enquote{%
121         GNU Free Documentation License%
122     }.%
123 \end{gfdl@float}%
124 \gfdl@noticenotprintedfalse
125 }

```

(End definition for `\printgfdlnotice`. This function is documented on page 3.)

We use `\printgfdlnotice` at the first page of the document with the following code.

```

126 \AddToHook{begindocument/end}{%
127     \ifgfdl@printgfdl
128         \printgfdlnotice
129     \fi
130 }

```

`\printgfdltext` The following code is used to define this command.

```

131 \NewDocumentCommand{ \printgfdltext }{ }{%
132     \input{gfdl-tex-\gfdl@version.tex}%
133     \gfdl@licensetextnotprintedfalse
134 }

```

(End definition for `\printgfdltext`. This function is documented on page 3.)

In default settings the entire license text is printed with the following code.

```

135 \AddToHook{enddocument}{%
136     \ifgfdl@printgfdl
137         \newpage
138         \phantomsection
139         \addcontentsline{toc}{section}{%
140             GNU Free Documentation License%
141         }%
142         \printgfdltext
143     \fi
144     \ifgfdl@noticenotprinted
145         \PackageError{gfdl}{%
146             You didn't print the copyright notice%
147         }{%
148             You are in the `manual' mode of the GFDL package and
149             hence you\MessageBreak are supposed to print the
150             copyright notice at a suitable place\MessageBreak of
151             your choice, but you haven't printed it at all. This
152             violates\MessageBreak the requirement of the GFDL. To
153             print it use:\MessageBreak
154             \space\space\string\printgfdlnotice.%
155         }%
156     \fi
157     \ifgfdl@licensetextnotprinted
158         \PackageError{gfdl}{%
159             You didn't print the license text%
160         }%
161     {%

```

```
162     You are in the `manual' mode of the GFDL package and hence you%
163     \MessageBreak
164     are supposed to print the full license text at a suitable place%
165     \MessageBreak
166     of your choice, but you haven't printed it at all. This violates%
167     \MessageBreak
168     the requirement of the GFDL. To print it use:%
169     \MessageBreak
170     \space\space\string\printgfdltext.%
171     }%
172     \fi
173 }

    This is the end of the package.
174 </package>
```

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Version 1.3, 3 November 2008

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