The gfdl package

निरंजन[*]

Version 0.2—May 1, 2025

🔗 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 and 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.

Contents

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[*]hi.niranjan@pm.me

Dedicated to the ꜰsꜰ and its continuous fight for software freedom...

Acknowledgment

I acknowledge my friend Sahil Patel for reviewing the output of this package and suggesting some corrections. I would also like to thank Karl Berry for pointing out some critical issues in my package and suggesting alternative ways of dealing with them. This package modifies and uses a few LaTeX-files provided on the web-pages of respective versions of GFDL[1] which are unlicensed and 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 LaTeX-files which I could modify.

1 Documentation

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

1.1 Macros

`\gfdlcopyrightdescription`
`\gfdlcopyrightableyears`
`\gfdlcopyrightholders`

```
\gfdlcopyrightdescription{⟨project-description⟩}
\gfdlcopyrightableyears{⟨copyright-able years⟩}
\gfdlcopyrighthoders{⟨copyright-holders⟩}
```

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 and the license-text.

`\printgfdlnotice` This text prints the copyright-notice. LaTeX's float-mechanism is used for printing it. It is printed on the first page of the document with default settings. With option `manual` user is free to print it anywhere, but not printing it will produce an error.

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

1.2 Options

`manual` 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 and print both of these things anywhere in the document with `\printgfdlnotice` and `\printgfdltext` as documented earlier.

---

[1] GFDLv1.3: 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.

sc

New: 2025-05-01

Sometimes acronyms are supposed to be printed in small caps instead of all caps. This is achieved by adding this option. This option is set to false by default. (This documentation uses `sc` option.)

1.2.1 Legacy support

The following options are just for legacy support and 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) and 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 and one in its 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 and 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` and `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 and 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}[2025/05/01 v0.2
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 and set some initial values for them.

The package issues a warning if copyright-holders aren't declared and 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 of definition for* `manual`*. This function is documented on page* *3*.)

sc   We define the conditional `\ifgfdl@sc` with the option `bool` for the key `sc`.

```
18   bool       sc        = {\ifgfdl@sc},
```

(*End of definition for* `sc`*. This function is documented on page* *4*.)

(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.

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

(*End of 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`.

```
20   choice     version   = {%
21     1.1                = {\def\gfdl@version{1p1}},%
22     1.2                = {\def\gfdl@version{1p2}},%
23     1.3                = {\def\gfdl@version{1p3}}%
24   },
25   initial    version   = {1.3}
26 }
```

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

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

```
27 \ekvoProcessLocalOptions{gfdl}
```

---

[2]Read the documentation of expkv for explanation.

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 and it is defined as (C) when the conditional is true (i.e., when the option is explicitly used by the user).

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

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

```
33 \NewDocumentCommand{ \gfdlcopyrightdescription }{ m }{%
34   \def\@copyrightedmaterialdesc{#1}%
35   \gfdl@copyrightedmaterialdesctrue
36 }
```

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

\gfdlcopyrightableyears For this command we have the following code.

```
37 \NewDocumentCommand{ \gfdlcopyrightableyears }{ m }{%
38   \def\@copyrightableyears{#1}%
39   \gfdl@copyrightableyearsgiventrue
40 }
```

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

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

```
41 \NewDocumentCommand{ \gfdlcopyrightholders }{ m }{%
42   \def\@copyrightholders{#1}%
43   \gfdl@copyrightholdersgiventrue
44 }
```

(*End of 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.

```
45 \AddToHook{begindocument/before}{%
46   \ifgfdl@copyrightableyearsgiven
47   \else
48     \def\@copyrightableyears{\textbf{??}}%
49     \PackageWarningNoLine{gfdl}{%
50       Copyright-able years not given. I can't print
51       the\MessageBreak
52       copyright notice without them. To give me
53       this\MessageBreak
54       information use the
55       \string\gfdlcopyrightableyears\space
56       command.\MessageBreak
57       Using '??' as a placeholder%
58     }%
59   \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 and again define the internal macro containing this information as bold ??.

```
60    \ifgfdl@copyrightholdersgiven
61    \else
62      \def\@copyrightholders{\textbf{??}}%
63      \PackageWarningNoLine{gfdl}{%
64        Copyright-holders not given. I can't print
65        the\MessageBreak
66        copyright notice without them. To give me
67        this\MessageBreak
68        information use the \string\gfdlcopyrightholders\space
69        command.\MessageBreak
70        Using '??' as a placeholder%
71      }%
72    \fi
```

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

```
73    \@ifpackageloaded{csquotes}{}{%
74      \RequirePackage{csquotes}%
75    }%
76    \@ifpackageloaded{hyperref}{}{%
77      \RequirePackage{hyperref}%
78    }%
79    \@ifpackageloaded{hyperxmp}{}{%
80      \RequirePackage{hyperxmp}%
81    }%
```

For setting the metadata we use the following code.

```
82    \hypersetup{%
83      pdfcopyright  = {%
84        \ifgfdl@copyrightedmaterialdesc
85          \@copyrightedmaterialdesc
86          \textLF
87        \fi
88        Copyright
89        \gfdl@copyrightsymbol\
90        \@copyrightableyears\
91        \@copyrightholders\textLF
92        Permission is granted to copy, distribute and/or
93        modify this document under the terms of the GNU Free
94        Documentation License, Version 1.3 or any later
95        version published by the Free Software Foundation;
96        with no Invariant Sections, no Front-Cover Texts, and
97        no Back-Cover Texts. A copy of the license is included
98        in the section entitled "GNU Free Documentation
99        License".%
100     },%
101     pdflicenseurl = {%
102       https://www.gnu.org/licenses/fdl-1.3.txt%
103     }%
104   }%
```

```
105 }
```

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.

```
106 \newfloat{gfdl@float}{b}{delme}
```

\printgfdlnotice   This command is developed using the following code.

```
107 \NewDocumentCommand{ \printgfdlnotice }{  }{%
108   \begin{gfdl@float}[b!]
109     \hrule\medskip
110     \ifgfdl@copyrightedmaterialdesc
111       \@copyrightedmaterialdesc\par
112     \fi
113     Copyright
114     \gfdl@copyrightsymbol\
115     \@copyrightableyears\
116     \@copyrightholders
117
118     Permission is granted to copy, distribute and/or modify
119     this document under the terms of the
120     \ifgfdl@sc
121       \textsc{Gnu}
122     \else
123       GNU
124     \fi
125     Free Documentation License, Version 1.3 or any later
126     version published by the Free Software Foundation; with
127     no Invariant Sections, no Front-Cover Texts, and no
128     Back-Cover Texts. A copy of the license is included in
129     the section entitled \enquote{%
130       \ifgfdl@sc
131         \textsc{Gnu}
132       \else
133         GNU
134       \fi
135       Free Documentation License%
136     }.%
137   \end{gfdl@float}%
138   \gfdl@noticenotprintedfalse
139 }
```

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

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

```
140 \AddToHook{begindocument/end}{%
141   \ifgfdl@printgfdl
142     \printgfdlnotice
143   \fi
144 }
```

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

```
145 \NewDocumentCommand{ \printgfdltext }{  }{%
146   \input{gfdl-tex-\gfdl@version.tex}%
147   \gfdl@licensetextnotprintedfalse
148 }
```

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

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

```
149 \AddToHook{enddocument}{%
150   \ifgfdl@printgfdl
151     \newpage
152     \phantomsection
153     \ifgfdl@sc
154       \addcontentsline{toc}{section}{%
155         \textsc{Gnu} Free Documentation License%
156       }%
157     \else
158       \addcontentsline{toc}{section}{%
159         GNU Free Documentation License%
160       }%
161     \fi
162     \printgfdltext
163   \fi
164   \ifgfdl@noticenotprinted
165     \PackageError{gfdl}{%
166       You didn't print the copyright notice%
167     }{%
168       You are in the 'manual' mode of the GFDL package and
169       hence you\MessageBreak
170       are supposed to print the copyright notice at a
171       suitable place\MessageBreak
172       of your choice, but you haven't printed it at all.
173       This violates\MessageBreak
174       the requirement of the GFDL. To print it
175       use:\MessageBreak
176       \space\space\string\printgfdlnotice.%
177     }%
178   \fi
179   \ifgfdl@licensetextnotprinted
180     \PackageError{gfdl}{%
181       You didn't print the license text%
182     }%
183     {%
184       You are in the 'manual' mode of the GFDL package and
185       hence you\MessageBreak
186       are supposed to print the full license text at a
187       suitable place\MessageBreak
188       of your choice, but you haven't printed it at all.
189       This violates\MessageBreak
190       the requirement of the GFDL. To print it
191       use:\MessageBreak
192       \space\space\string\printgfdltext.%
193     }%
194   \fi
195 }
```

This is the end of the package.

```
196 ⟨/package⟩
```

9

We start a new tag, i.e., `1p1`, for generating the tex file of the first version of GFDL. it contains all the text of the same.

```
197 ⟨*1p1⟩
198 \ProvidesFile{gfdl-tex-1p1.tex}[2025-05-01 v0.2 GFDL 1.1]
199 \makeatletter
200 \begin{center}
201   \ifgfdl@sc
202     \textbf{%
203       \LARGE
204       \textsc{Gnu} Free Documentation License%
205     }%
206   \else
207     \textbf{%
208       \LARGE
209       GNU Free Documentation License%
210     }%
211   \fi
212   \bigskip
213
214   Version 1.1, March 2000
215
216   Copyright \copyright\ 2000 Free Software Foundation, Inc.
217
218   \bigskip
219
220   51 Franklin St, Fifth Floor, Boston, MA 02110-1301
221   \ifgfdl@sc
222     \textsc{usa}
223   \else
224     USA
225   \fi
226
227
228   Everyone is permitted to copy and distribute verbatim
229   copies of this license document, but changing it is not
230   allowed.
231
232   \bigskip
233
234   \textbf{%
235     \Large
236     \ifgfdl@sc
237       \textsc{Preamble}%
238     \else
239       PREAMBLE%
240     \fi
241   }
242 \end{center}
243
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258 \else
259   GNU
260 \fi
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270 whether it is published as a printed book. We recommend this
271 License principally for works whose purpose is instruction
272 or reference.
273
274 \medskip
275 \begin{center}
276   \textbf{%
277     \Large
278     \ifgfdl@sc
279       \textsc{Applicability and Definitions}%
280     \else
281       APPLICABILITY AND DEFINITIONS%
282     \fi
283   }
284 \end{center}
285
286 \noindent
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288 contains a notice placed by the copyright holder saying it
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300 front-matter section of the Document that deals exclusively
301 with the relationship of the publishers or authors of the
302 Document to the Document's overall subject (or to related
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plain
\ifgfdl@sc
  \textsc{ascii}
\else
  ASCII
\fi
without markup, Texinfo input format, \LaTeX~input format,
\ifgfdl@sc
  \textsc{sgml}
\else
  SGML
\fi
or
\ifgfdl@sc
  \textsc{xml}
\else
  XML
\fi
using a publicly available
\ifgfdl@sc
  \textsc{dtd}%

```
357 \else
358   DTD%
359 \fi
360 , and standard-conforming simple
361 \ifgfdl@sc
362   \textsc{html}
363 \else
364   HTML
365 \fi
366 designed for human modification. Opaque formats include
367 PostScript,
368 \ifgfdl@sc
369   \textsc{pdf}%
370 \else
371   PDF%
372 \fi
373 , proprietary formats that can be read and edited only by
374 proprietary word processors,
375 \ifgfdl@sc
376   \textsc{sgml}
377 \else
378   SGML
379 \fi
380 or
381 \ifgfdl@sc
382   \textsc{xml}
383 \else
384   XML
385 \fi
386 for which the
387 \ifgfdl@sc
388   \textsc{dtd}
389 \else
390   DTD
391 \fi
392 and/or processing tools are not generally available, and the
393 machine-generated
394 \ifgfdl@sc
395   \textsc{html}
396 \else
397   HTML
398 \fi
399 produced by some word processors for output purposes only.
400
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405 have any title page as such, \enquote{Title Page} means the
406 text near the most prominent appearance of the work's title,
407 preceding the beginning of the body of the text.
408
409 \medskip
410 \begin{center}
```

```
411    \textbf{%
412      \Large
413      \ifgfdl@sc
414        \textsc{Verbatim Copying}%
415      \else
416        VERBATIM COPYING%
417      \fi
418    }
419  \end{center}
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421  \noindent
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432  also follow the conditions in section 3.
433
434  You may also lend copies, under the same conditions stated
435  above, and you may publicly display copies.
436
437  \medskip
438  \begin{center}
439    \textbf{%
440      \Large
441      \ifgfdl@sc
442        \textsc{Copying in Quantity}%
443      \else
444        COPYING IN QUANTITY%
445      \fi
446    }
447  \end{center}
448
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```
\medskip
\begin{center}
  \textbf{%
    \Large
    \ifgfdl@sc
      \textsc{Modifications}%
    \else
      MODIFICATIONS%
    \fi
  }
\end{center}

\noindent
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