


The gfdl package

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 <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.

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	GNU Free Documentation License	55

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The \LaTeX package gfdl

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Dedicated to the FSF 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 GFDL¹ 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.

I Documentation

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

I.1 Macros

<hr/> <code>\gfdlcopyrightdescription</code>	<code>\gfdlcopyrightdescription{\textit{project-description}}</code>
<code>\gfdlcopyrightableyears</code>	<code>\gfdlcopyrightableyears{\textit{copyright-able years}}</code>
<hr/> <code>\gfdlcopyrightholders</code>	<code>\gfdlcopyrightholders{\textit{copyright-holders}}</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 and the license-text.

<hr/> <code>\printgfdlnotice</code> <hr/>	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 <code>manual</code> user is free to print it anywhere, but not printing it will produce an error.
---	--

<hr/> <code>\printgfdltext</code> <hr/>	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.
---	---

I.2 Options

<hr/> <code>manual</code> <hr/>	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 <code>\printgfdlnotice</code> and <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>.

sc	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.)
New: 2025-05-01	

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}

```

²Read 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 \end{package}
```

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
244 The purpose of this License is to make a manual, textbook,
245 or other written document \enquote{free} in the sense of
246 freedom: to assure everyone the effective freedom to copy
247 and redistribute it, with or without modifying it, either
248 commercially or noncommercially. Secondly, this License

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 250 for their work, while not being considered responsible for
 251 modifications made by others.
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 254 that derivative works of the document must themselves be
 255 free in the same sense. It complements the
 256 \ifgfdl@sc
 257 \textsc{Gnu}
 258 \else
 259 GNU
 260 \fi
 261 General Public License, which is a copyleft license designed
 262 for free software.
 263
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 265 for free software, because free software needs free
 266 documentation: a free program should come with manuals
 267 providing the same freedoms that the software does. But this
 268 License is not limited to software manuals; it can be used
 269 for any textual work, regardless of subject matter or
 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
 287 This License applies to any manual or other work that
 288 contains a notice placed by the copyright holder saying it
 289 can be distributed under the terms of this License. The
 290 \enquote{Document}, below, refers to any such manual or
 291 work. Any member of the public is a licensee, and is
 292 addressed as \enquote{you}.
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 295 containing the Document or a portion of it, either copied
 296 verbatim, or with modifications and/or translated into
 297 another language.
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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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 304 within that overall subject. (For example, if the Document
 305 is in part a textbook of mathematics, a Secondary Section
 306 may not explain any mathematics.) The relationship could be
 307 a matter of historical connection with the subject or with
 308 related matters, or of legal, commercial, philosophical,
 309 ethical or political position regarding them.
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 312 Sections whose titles are designated, as being those of
 313 Invariant Sections, in the notice that says that the
 314 Document is released under this License.
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 316 The \enquote{Cover Texts} are certain short passages of text
 317 that are listed, as Front-Cover Texts or Back-Cover Texts,
 318 in the notice that says that the Document is released under
 319 this License.
 320
 321 A \enquote{Transparent} copy of the Document means a
 322 machine-readable copy, represented in a format whose
 323 specification is available to the general public, whose
 324 contents can be viewed and edited directly and
 325 straightforwardly with generic text editors or (for images
 326 composed of pixels) generic paint programs or (for drawings)
 327 some widely available drawing editor, and that is suitable
 328 for input to text formatters or for automatic translation to
 329 a variety of formats suitable for input to text formatters.
 330 A copy made in an otherwise Transparent file format whose
 331 markup has been designed to thwart or discourage subsequent
 332 modification by readers is not Transparent. A copy that is
 333 not \enquote{Transparent} is called \enquote{Opaque}.
 334
 335 Examples of suitable formats for Transparent copies include
 336 plain
 337 \ifgfdl@sc
 338 \textsc{ascii}
 339 \else
 340 ASCII
 341 \fi
 342 without markup, Texinfo input format, \LaTeX~input format,
 343 \ifgfdl@sc
 344 \textsc{sgml}
 345 \else
 346 SGML
 347 \fi
 348 or
 349 \ifgfdl@sc
 350 \textsc{xml}
 351 \else
 352 XML
 353 \fi
 354 using a publicly available
 355 \ifgfdl@sc
 356 \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
401 The \enquote{Title Page} means, for a printed book, the
402 title page itself, plus such following pages as are needed
403 to hold, legibly, the material this License requires to
404 appear in the title page. For works in formats which do not
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}
420
421 \noindent
422 You may copy and distribute the Document in any medium,
423 either commercially or noncommercially, provided that this
424 License, the copyright notices, and the license notice
425 saying this License applies to the Document are reproduced
426 in all copies, and that you add no other conditions
427 whatsoever to those of this License. You may not use
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431 If you distribute a large enough number of copies you must
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
449 \noindent
450 If you publish printed copies of the Document numbering more
451 than 100, and the Document's license notice requires Cover
452 Texts, you must enclose the copies in covers that carry,
453 clearly and legibly, all these Cover Texts: Front-Cover
454 Texts on the front cover, and Back-Cover Texts on the back
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463
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```

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 466 as fit reasonably) on the actual cover, and continue the
 467 rest onto adjacent pages.
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 487 number of copies, to give them a chance to provide you with
 488 an updated version of the Document.
 489

```

    490 \medskip
    491 \begin{center}
    492   \textbf{%
    493     \Large
    494     \ifgfdl@sc
    495       \textsc{Modifications}%
    496     \else
    497       MODIFICATIONS%
    498     \fi
    499   }
    500 \end{center}
    501
    502 \noindent
    503 You may copy and distribute a Modified Version of the
    504 Document under the conditions of sections 2 and 3 above,
    505 provided that you release the Modified Version under
    506 precisely this License, with the Modified Version filling
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    509 copy of it. In addition, you must do these things in the
    510 Modified Version:
    511
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 521 modifications in the Modified Version, together with at
 522 least five of the principal authors of the Document (all
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 533 \item Preserve in that license notice the full lists of
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