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2  Version 3, 29 June 2007
3
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7
8  Preamble
9
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11 software and other kinds of works.
12
13 The licenses for most software and other practical works are designed
14 to take away your freedom to share and change the works. By contrast,
15 the GNU General Public License is intended to guarantee your freedom to
16 share and change all versions of a program--to make sure it remains
17 software for all its users. We, the Free Software Foundation, use the
18 GNU General Public License for most of our software; it applies also to
19 any other work released this way by its authors. You can apply it to
20 your programs, too.
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22 When we speak of free software, we are referring to freedom, not
23 price. Our General Public Licenses are designed to make sure that you
24 have the freedom to distribute copies of free software (and charge for
25 them if you wish), that you receive source code or can get it if you
26 want it, that you can change the software or use pieces of it in new
27 free programs, and that you know you can do these things.
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29 To protect your rights, we need to prevent others from denying you
30 these rights or asking you to surrender the rights. Therefore, you
31 certain responsibilities if you distribute copies of the software, or
32 you modify it: responsibilities to respect the freedom of others.
33
34 For example, if you distribute copies of such a program, whether
35 gratis or for a fee, you must pass on to the recipients the same
36 freedoms that you received. You must make sure that they, too, receive
37 or can get the source code. And you must show them these terms so they
38 know their rights.
39
40 Developers that use the GNU GPL protect your rights with two steps:
41 (1) assert copyright on the software, and (2) offer you this License
42 giving you legal permission to copy, distribute and/or modify it.
43
44 For the developers' and authors' protection, the GPL clearly explains
45 that there is no warranty for this free software. For both users' and
46 authors' sake, the GPL requires that modified versions be marked as
47 changed, so that their problems will not be attributed erroneously to
48 authors of previous versions.
49
50 Some devices are designed to deny users access to install or run

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51 modified versions of the software inside them, although the
 manufacturer
 52 can do so. This is fundamentally incompatible with the aim of
 53 protecting users' freedom to change the software. The systematic
 54 pattern of such abuse occurs in the area of products for individuals to
 55 use, which is precisely where it is most unacceptable. Therefore, we
 56 have designed this version of the GPL to prohibit the practice for
 those
 57 products. If such problems arise substantially in other domains, we
 58 stand ready to extend this provision to those domains in future
 versions
 59 of the GPL, as needed to protect the freedom of users.
 60
 61 Finally, every program is threatened constantly by software patents.
 62 States should not allow patents to restrict development and use of
 63 software on general-purpose computers, but in those that do, we wish to
 64 avoid the special danger that patents applied to a free program could
 65 make it effectively proprietary. To prevent this, the GPL assures that
 66 patents cannot be used to render the program non-free.
 67
 68 The precise terms and conditions for copying, distribution and
 69 modification follow.
 70
 71 TERMS AND CONDITIONS
 72
 73 0. Definitions.
 74
 75 "This License" refers to version 3 of the GNU General Public License.
 76
 77 "Copyright" also means copyright-like laws that apply to other kinds
 of
 78 works, such as semiconductor masks.
 79
 80 "The Program" refers to any copyrightable work licensed under this
 81 License. Each licensee is addressed as "you". "Licensees" and
 82 "recipients" may be individuals or organizations.
 83
 84 To "modify" a work means to copy from or adapt all or part of the
 work
 85 in a fashion requiring copyright permission, other than the making of
 an
 86 exact copy. The resulting work is called a "modified version" of the
 87 earlier work or a work "based on" the earlier work.
 88
 89 A "covered work" means either the unmodified Program or a work based
 90 on the Program.
 91
 92 To "propagate" a work means to do anything with it that, without
 93 permission, would make you directly or secondarily liable for
 94 infringement under applicable copyright law, except executing it on a
 95 computer or modifying a private copy. Propagation includes copying,
 96 distribution (with or without modification), making available to the
 97 public, and in some countries other activities as well.

98 **TF**
99 To "convey" a work means any kind of propagation that enables other **TF**
100 parties to make or receive copies. Mere interaction with a user **TF** ↵
 through **TF**
101 a computer network, with no transfer of a copy, is not conveying. **TF**
102 **TF**
103 An interactive user interface displays "Appropriate Legal Notices" **TF**
104 to the extent that it includes a convenient and prominently visible **TF**
105 feature that (1) displays an appropriate copyright notice, and (2) **TF**
106 tells the user that there is no warranty for the work (except to the **TF**
107 extent that warranties are provided), that licensees may convey the **TF**
108 work under this License, and how to view a copy of this License. If **TF**
109 the interface presents a list of user commands or options, such as a **TF**
110 menu, a prominent item in the list meets this criterion. **TF**
111 **TF**
112 1. Source Code. **TF**
113 **TF**
114 The "source code" for a work means the preferred form of the work **TF**
115 for making modifications to it. "Object code" means any non-source **TF**
116 form of a work. **TF**
117 **TF**
118 A "Standard Interface" means an interface that either is an official **TF**
119 standard defined by a recognized standards body, or, in the case of **TF**
120 interfaces specified for a particular programming language, one that **TF**
121 is widely used among developers working in that language. **TF**
122 **TF**
123 The "System Libraries" of an executable work include anything, other **TF**
124 than the work as a whole, that (a) is included in the normal form of **TF**
125 packaging a Major Component, but which is not part of that Major **TF**
126 Component, and (b) serves only to enable use of the work with that **TF**
127 Major Component, or to implement a Standard Interface for which an **TF**
128 implementation is available to the public in source code form. A **TF**
129 "Major Component", in this context, means a major essential component **TF**
130 (kernel, window system, and so on) of the specific operating system **TF**
131 (if any) on which the executable work runs, or a compiler used to **TF**
132 produce the work, or an object code interpreter used to run it. **TF**
133 **TF**
134 The "Corresponding Source" for a work in object code form means all **TF**
135 the source code needed to generate, install, and (for an executable **TF**
136 work) run the object code and to modify the work, including scripts to **TF**
137 control those activities. However, it does not include the work's **TF**
138 System Libraries, or general-purpose tools or generally available free **TF**
139 programs which are used unmodified in performing those activities but **TF**
140 which are not part of the work. For example, Corresponding Source **TF**
141 includes interface definition files associated with source files for **TF**
142 the work, and the source code for shared libraries and dynamically **TF**
143 linked subprograms that the work is specifically designed to require, **TF**
144 such as by intimate data communication or control flow between those **TF**
145 subprograms and other parts of the work. **TF**
146 **TF**
147 The Corresponding Source need not include anything that users **TF**
148 can regenerate automatically from other parts of the Corresponding **TF**
149 Source. **TF**

150 **LF**
151 The Corresponding Source for a work in source code form is that **LF**
152 same work. **LF**
153 **LF**
154 2. Basic Permissions. **LF**
155 **LF**
156 All rights granted under this License are granted for the term of **LF**
157 copyright on the Program, and are irrevocable provided the stated **LF**
158 conditions are met. This License explicitly affirms your unlimited **LF**
159 permission to run the unmodified Program. The output from running a **LF**
160 covered work is covered by this License only if the output, given its **LF**
161 content, constitutes a covered work. This License acknowledges your **LF**
162 rights of fair use or other equivalent, as provided by copyright law. **LF**
163 **LF**
164 You may make, run and propagate covered works that you do not **LF**
165 convey, without conditions so long as your license otherwise remains **LF**
166 in force. You may convey covered works to others for the sole purpose **LF**
167 of having them make modifications exclusively for you, or provide you **LF**
168 with facilities for running those works, provided that you comply with **LF**
169 the terms of this License in conveying all material for which you do **LF**
170 not control copyright. Those thus making or running the covered works **LF**
171 for you must do so exclusively on your behalf, under your direction **LF**
172 and control, on terms that prohibit them from making any copies of **LF**
173 your copyrighted material outside their relationship with you. **LF**
174 **LF**
175 Conveying under any other circumstances is permitted solely under **LF**
176 the conditions stated below. Sublicensing is not allowed; section 10 **LF**
177 makes it unnecessary. **LF**
178 **LF**
179 3. Protecting Users' Legal Rights From Anti-Circumvention Law. **LF**
180 **LF**
181 No covered work shall be deemed part of an effective technological **LF**
182 measure under any applicable law fulfilling obligations under article **LF**
183 11 of the WIPO copyright treaty adopted on 20 December 1996, or **LF**
184 similar laws prohibiting or restricting circumvention of such **LF**
185 measures. **LF**
186 **LF**
187 When you convey a covered work, you waive any legal power to forbid **LF**
188 circumvention of technological measures to the extent such **LF**
189 circumvention **LF**
190 is effected by exercising rights under this License with respect to **LF**
191 the covered work, and you disclaim any intention to limit operation or **LF**
192 modification of the work as a means of enforcing, against the work's **LF**
193 users, your or third parties' legal rights to forbid circumvention of **LF**
194 technological measures. **LF**
195 **LF**
196 4. Conveying Verbatim Copies. **LF**
197 **LF**
198 You may convey verbatim copies of the Program's source code as you **LF**
199 receive it, in any medium, provided that you conspicuously and **LF**
200 appropriately publish on each copy an appropriate copyright notice; **LF**
201 keep intact all notices stating that this License and any **LF**
202 non-permissive terms added in accord with section 7 apply to the code; **LF**

202 keep intact all notices of the absence of any warranty; and give all **LF**
203 recipients a copy of this License along with the Program. **LF**
204 **LF**
205 You may charge any price or no price for each copy that you convey, **LF**
206 and you may offer support or warranty protection for a fee. **LF**
207 **LF**
208 5. Conveying Modified Source Versions. **LF**
209 **LF**
210 You may convey a work based on the Program, or the modifications to **LF**
211 produce it from the Program, in the form of source code under the **LF**
212 terms of section 4, provided that you also meet all of these ↗
conditions: **LF**
213 **LF**
214 a) The work must carry prominent notices stating that you modified **LF**
215 it, and giving a relevant date. **LF**
216 **LF**
217 b) The work must carry prominent notices stating that it is **LF**
218 released under this License and any conditions added under section **LF**
219 7. This requirement modifies the requirement in section 4 to **LF**
220 "keep intact all notices". **LF**
221 **LF**
222 c) You must license the entire work, as a whole, under this **LF**
223 License to anyone who comes into possession of a copy. This **LF**
224 License will therefore apply, along with any applicable section 7 **LF**
225 additional terms, to the whole of the work, and all its parts, **LF**
226 regardless of how they are packaged. This License gives no **LF**
227 permission to license the work in any other way, but it does not **LF**
228 invalidate such permission if you have separately received it. **LF**
229 **LF**
230 d) If the work has interactive user interfaces, each must display **LF**
231 Appropriate Legal Notices; however, if the Program has interactive **LF**
232 interfaces that do not display Appropriate Legal Notices, your **LF**
233 work need not make them do so. **LF**
234 **LF**
235 A compilation of a covered work with other separate and independent **LF**
236 works, which are not by their nature extensions of the covered work, **LF**
237 and which are not combined with it such as to form a larger program, **LF**
238 in or on a volume of a storage or distribution medium, is called an **LF**
239 "aggregate" if the compilation and its resulting copyright are not **LF**
240 used to limit the access or legal rights of the compilation's users **LF**
241 beyond what the individual works permit. Inclusion of a covered work **LF**
242 in an aggregate does not cause this License to apply to the other **LF**
243 parts of the aggregate. **LF**
244 **LF**
245 6. Conveying Non-Source Forms. **LF**
246 **LF**
247 You may convey a covered work in object code form under the terms **LF**
248 of sections 4 and 5, provided that you also convey the **LF**
249 machine-readable Corresponding Source under the terms of this License, **LF**
250 in one of these ways: **LF**
251 **LF**
252 a) Convey the object code in, or embodied in, a physical product **LF**
253 (including a physical distribution medium), accompanied by the **LF**

254 Corresponding Source fixed on a durable physical medium^{LF}
255 customarily used for software interchange.^{LF}
256 ^{LF}
257 b) Convey the object code in, or embodied in, a physical product^{LF}
258 (including a physical distribution medium), accompanied by a^{LF}
259 written offer, valid for at least three years and valid for as^{LF}
260 long as you offer spare parts or customer support for that product^{LF}
261 model, to give anyone who possesses the object code either (1) a^{LF}
262 copy of the Corresponding Source for all the software in the^{LF}
263 product that is covered by this License, on a durable physical^{LF}
264 medium customarily used for software interchange, for a price no^{LF}
265 more than your reasonable cost of physically performing this^{LF}
266 conveying of source, or (2) access to copy the^{LF}
267 Corresponding Source from a network server at no charge.^{LF}
268 ^{LF}
269 c) Convey individual copies of the object code with a copy of the^{LF}
270 written offer to provide the Corresponding Source. This^{LF}
271 alternative is allowed only occasionally and noncommercially, and^{LF}
272 only if you received the object code with such an offer, in accord^{LF}
273 with subsection 6b.^{LF}
274 ^{LF}
275 d) Convey the object code by offering access from a designated^{LF}
276 place (gratis or for a charge), and offer equivalent access to the^{LF}
277 Corresponding Source in the same way through the same place at no^{LF}
278 further charge. You need not require recipients to copy the^{LF}
279 Corresponding Source along with the object code. If the place to^{LF}
280 copy the object code is a network server, the Corresponding Source^{LF}
281 may be on a different server (operated by you or a third party)^{LF}
282 that supports equivalent copying facilities, provided you maintain^{LF}
283 clear directions next to the object code saying where to find the^{LF}
284 Corresponding Source. Regardless of what server hosts the^{LF}
285 Corresponding Source, you remain obligated to ensure that it is^{LF}
286 available for as long as needed to satisfy these requirements.^{LF}
287 ^{LF}
288 e) Convey the object code using peer-to-peer transmission, provided^{LF}
289 you inform other peers where the object code and Corresponding^{LF}
290 Source of the work are being offered to the general public at no^{LF}
291 charge under subsection 6d.^{LF}
292 ^{LF}
293 A separable portion of the object code, whose source code is excluded^{LF}
294 from the Corresponding Source as a System Library, need not be^{LF}
295 included in conveying the object code work.^{LF}
296 ^{LF}
297 A "User Product" is either (1) a "consumer product", which means any^{LF}
298 tangible personal property which is normally used for personal, family,^{LF}
299 or household purposes, or (2) anything designed or sold for ^{LF}
incorporation^{LF}
300 into a dwelling. In determining whether a product is a consumer ^{LF}
product,^{LF}
301 doubtful cases shall be resolved in favor of coverage. For a ^{LF}
particular^{LF}
302 product received by a particular user, "normally used" refers to a^{LF}
303 typical or common use of that class of product, regardless of the ^{LF}

status^{LF}
304 of the particular user or of the way in which the particular user^{LF}
305 actually uses, or expects or is expected to use, the product. A
product^{LF}
306 is a consumer product regardless of whether the product has substantial^{LF}
307 commercial, industrial or non-consumer uses, unless such uses represent^{LF}
308 the only significant mode of use of the product.^{LF}
309 ^{LF}
310 "Installation Information" for a User Product means any methods,^{LF}
311 procedures, authorization keys, or other information required to
install^{LF}
312 and execute modified versions of a covered work in that User Product
from^{LF}
313 a modified version of its Corresponding Source. The information must^{LF}
314 suffice to ensure that the continued functioning of the modified object^{LF}
315 code is in no case prevented or interfered with solely because^{LF}
316 modification has been made.^{LF}
317 ^{LF}
318 If you convey an object code work under this section in, or with, or^{LF}
319 specifically for use in, a User Product, and the conveying occurs as^{LF}
320 part of a transaction in which the right of possession and use of the^{LF}
321 User Product is transferred to the recipient in perpetuity or for a^{LF}
322 fixed term (regardless of how the transaction is characterized), the^{LF}
323 Corresponding Source conveyed under this section must be accompanied^{LF}
324 by the Installation Information. But this requirement does not apply^{LF}
325 if neither you nor any third party retains the ability to install^{LF}
326 modified object code on the User Product (for example, the work has^{LF}
327 been installed in ROM).^{LF}
328 ^{LF}
329 The requirement to provide Installation Information does not include
a^{LF}
330 requirement to continue to provide support service, warranty, or
updates^{LF}
331 for a work that has been modified or installed by the recipient, or for^{LF}
332 the User Product in which it has been modified or installed. Access
to a^{LF}
333 network may be denied when the modification itself materially and^{LF}
334 adversely affects the operation of the network or violates the rules
and^{LF}
335 protocols for communication across the network.^{LF}
336 ^{LF}
337 Corresponding Source conveyed, and Installation Information provided,^{LF}
338 in accord with this section must be in a format that is publicly^{LF}
339 documented (and with an implementation available to the public in^{LF}
340 source code form), and must require no special password or key for^{LF}
341 unpacking, reading or copying.^{LF}
342 ^{LF}
343 7. Additional Terms.^{LF}
344 ^{LF}
345 "Additional permissions" are terms that supplement the terms of this^{LF}
346 License by making exceptions from one or more of its conditions.^{LF}
347 Additional permissions that are applicable to the entire Program shall^{LF}
348 be treated as though they were included in this License, to the extent^{LF}

349 that they are valid under applicable law. If additional permissions^{LF}
350 apply only to part of the Program, that part may be used separately^{LF}
351 under those permissions, but the entire Program remains governed by^{LF}
352 this License without regard to the additional permissions.^{LF}
353 ^{LF}
354 When you convey a copy of a covered work, you may at your option^{LF}
355 remove any additional permissions from that copy, or from any part of^{LF}
356 it. (Additional permissions may be written to require their own^{LF}
357 removal in certain cases when you modify the work.) You may place^{LF}
358 additional permissions on material, added by you to a covered work,^{LF}
359 for which you have or can give appropriate copyright permission.^{LF}
360 ^{LF}
361 Notwithstanding any other provision of this License, for material you^{LF}
362 add to a covered work, you may (if authorized by the copyright holders ^{LF}
of^{LF}
363 that material) supplement the terms of this License with terms:^{LF}
364 ^{LF}
365 a) Disclaiming warranty or limiting liability differently from the^{LF}
366 terms of sections 15 and 16 of this License; or^{LF}
367 ^{LF}
368 b) Requiring preservation of specified reasonable legal notices or^{LF}
369 author attributions in that material or in the Appropriate Legal^{LF}
370 Notices displayed by works containing it; or^{LF}
371 ^{LF}
372 c) Prohibiting misrepresentation of the origin of that material, or^{LF}
373 requiring that modified versions of such material be marked in^{LF}
374 reasonable ways as different from the original version; or^{LF}
375 ^{LF}
376 d) Limiting the use for publicity purposes of names of licensors or^{LF}
377 authors of the material; or^{LF}
378 ^{LF}
379 e) Declining to grant rights under trademark law for use of some^{LF}
380 trade names, trademarks, or service marks; or^{LF}
381 ^{LF}
382 f) Requiring indemnification of licensors and authors of that^{LF}
383 material by anyone who conveys the material (or modified versions ^{LF}
of^{LF}
384 it) with contractual assumptions of liability to the recipient, for^{LF}
385 any liability that these contractual assumptions directly impose on^{LF}
386 those licensors and authors.^{LF}
387 ^{LF}
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392 restriction, you may remove that term. If a license document contains^{LF}
393 a further restriction but permits relicensing or conveying under this^{LF}
394 License, you may add to a covered work material governed by the terms^{LF}
395 of that license document, provided that the further restriction does^{LF}
396 not survive such relicensing or conveying.^{LF}
397 ^{LF}
398 If you add terms to a covered work in accord with this section, you^{LF}
399 must place, in the relevant source files, a statement of the^{LF}

400 additional terms that apply to those files, or a notice indicating
401 where to find the applicable terms.
402
403 Additional terms, permissive or non-permissive, may be stated in the
404 form of a separately written license, or stated as exceptions;
405 the above requirements apply either way.
406
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409 You may not propagate or modify a covered work except as expressly
410 provided under this License. Any attempt otherwise to propagate or
411 modify it is void, and will automatically terminate your rights under
412 this License (including any patent licenses granted under the third
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414
415 However, if you cease all violation of this License, then your
416 license from a particular copyright holder is reinstated (a)
417 provisionally, unless and until the copyright holder explicitly and
418 finally terminates your license, and (b) permanently, if the copyright
419 holder fails to notify you of the violation by some reasonable means
420 prior to 60 days after the cessation.
421
422 Moreover, your license from a particular copyright holder is
423 reinstated permanently if the copyright holder notifies you of the
424 violation by some reasonable means, this is the first time you have
425 received notice of violation of this License (for any work) from that
426 copyright holder, and you cure the violation prior to 30 days after
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452

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513 If, pursuant to or in connection with a single transaction or
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520
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558 License will continue to apply to the part which is the covered work,^{TF}
559 but the special requirements of the GNU Affero General Public License,^{TF}
560 section 13, concerning interaction through a network will apply to the^{TF}
561 combination as such.^{TF}
562 ^{TF}

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637 To do so, attach the following notices to the program. It is safestLF
638 to attach them to the start of each source file to most effectivelyLF
639 state the exclusion of warranty; and each file should have at leastLF
640 the "copyright" line and a pointer to where the full notice is found.LF
641 LF

```

```

LF <one line to give the program's name and a brief idea of what it LF
LF does.>LF
LF Copyright (C) <year> <name of author>LF
LF
LF This program is free software: you can redistribute it and/or LF
LF modifyLF
LF it under the terms of the GNU General Public License as published LF
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```

```

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645     GNU General Public License for more details.
646
647     You should have received a copy of the GNU General Public License
648     along with this program. If not, see
        <https://www.gnu.org/licenses/>.
649
650     Also add information on how to contact you by electronic and paper
        mail.
651
652     If the program does terminal interaction, make it output a short
653     notice like this when it starts in an interactive mode:
654
655     <program> Copyright (C) <year> <name of author>
656     This program comes with ABSOLUTELY NO WARRANTY; for details type
        `show w'.
657     This is free software, and you are welcome to redistribute it
658     under certain conditions; type `show c' for details.
659
660     The hypothetical commands `show w' and `show c' should show the
        appropriate
661     parts of the General Public License. Of course, your program's
        commands
662     might be different; for a GUI interface, you would use an "about box".
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