

GNU 通用公共许可证

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引言

The GNU General Public License is a free, copyleft license for software and other kinds of works.

GNU 通用公共许可证是一份面向软件及其他类型作品的、公共著作权许可证。

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

就多数软件而言，许可证被设计用于剥夺你分享和修改软件的自由。相反，GNU 通用公共许可证力图保障你分享和修改某程序全部版本的权利——确保自由软件对其用户来说是自由的。我们——自由软件基金会——将 GNU 通用公共许可证用于我们的大多数软件，并为一些其他作品的作者效仿。你也可以将本许可证用于你的程序。

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

所谓自由软件，强调自由，而非免费。设计 GNU 通用公共许可证的目的在于确保你享有分发自由软件的自由（你可以为此服务收费），确保你可以在需要的时候获得这些软件的源代码，确保你可以修改这些软件或者在新的自由软件中复用其中某些片段，并且确保你在这方面享有知情权。

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

为了保护你的权利，我们设置了一些限制以防止其他人否定你的权

利或者要求你放弃你的权利。这些限制在你分发或者修改这些软件时会成为你的责任。

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

例如，你分发这类软件的副本，无论是收费或者免费，你必须授予接收者你拥有的所有权利。你必须保证他们也能收到或者能够获得源代码。并且你也要确保他们也知道他们的权利。

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

采用 GNU 通用公共许可证的开发者通过两步保障你的权利：（1）声明软件的版权；（2）通过本许可证授予你合法地复制、分发和修改该软件的权利。

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

为了保护作者和开发者，GPL 明确声明：自由软件并没有品质担保。为用户和作者双方着想，GPL 要求修改版必须有修改标记，以免其问题被错误地归到先前版本的作者身上。

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future

versions of the GPL, as needed to protect the freedom of users.

某些设备设计成拒绝用户安装、运行修改过的软件，但设备生产商不受此限制。这和我们保护用户享有修改软件的自由的宗旨存在根本性矛盾。这种系统化地滥用模式常常出现于个人用品领域，这恰恰是最不可接受的。因此，我们设计了这版 GPL 来禁止这类做法的产品。如果此类问题在其他领域大量出现，我们随时在 GPL 的后续版本中把规定扩展到相应领域，以保护用户的自由。

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

最后，每个程序都持续受到软件专利的威胁。政府不应该允许专利限制通用计算机软件的开发和应用，在做不到这点时，我们希望避免因专利的应用而使自由软件私有化的危险。就此，GPL 保证专利不能使程序非自由化。

The precise terms and conditions for copying, distribution and modification follow. 下文是关于复制、分发和修改的详细条款和条件。

条款和条件

0. 定义

“This License” refers to version 3 of the GNU General Public License.

“本许可证”指 GNU 通用公共许可证第 3 版。

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

“版权”也指适用于其他类型作品的类似版权的法律，如半导体掩模的。

“The Program” refers to any copyrightable work licensed under this License. Each licensee is addressed as “you”. “Licensees” and “recipients” may be individuals or organizations.

“本程序”指任何受本许可证保护的有版权的作品。每位被授权人称作“你”。“被授权人”和“接收者”可以是个人或组织。

To “modify” a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

“修改” 一个作品指需要版权授权才能复制该作品以及对作品全部或部分的改编行为，不同于制作完全相同的副本。所产生的作品称作上一作品的“修改版”，或“基于”上一作品衍生作品。

A “covered work” means either the unmodified Program or a work based on the Program. “受保护作品” 指未修改的程序或其衍生作品。

To “propagate” a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

“传播” 作品指那些未经授权就会在适用版权法律下构成直接或间接侵权的任何行为，但在计算机上运行和修改私有副本除外。传播包括复制、分发（无论修改与否）、向公众公开，以及在某些国家的其他行为。

To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

“传递” 作品指让他方能够制作或者接收副本的行为。仅仅通过计算机网络与用户交互，但没有传输副本，则不算传递。

An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the inter-

face presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

显示“适当的法律声明”的交互式用户界面应包括一个方便和醒目的可视化方式显示：(1) 适当的版权声明；(2) 告知用户没有品质担保（提供了品质担保的情况除外），被授权人可以在本许可证约束下传递该作品，及查看本许可证副本的途径。如果该界面是以命令列表或者选项方式显示，如菜单，在列表项显示上述法律声明，也是符合本要求。

1. 源代码

The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

作品的“源代码”指其可修改的首选形式，目标代码指所有其他形式。

A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

“标准接口”指标准化组织定义的官方标准中的接口，或针为某种编程语言设定的为开发者广泛使用的接口。

The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

可执行作品中的“系统库”不是指整个程序，而是包含任何这类内容的部分：(a) 以通常形式和主要组件打包到一起却并非后者的一部分，且 (b) 仅为和主要组件一起使该作品可用或实现某些已有公开实现源代码的接口。“主要组件”在这里指可执行该作品运行依赖的操作系统(如果存在)的必要组件(内核、窗口系统等)，或者生成该作品的编译器，或运行所需的目标代码解释器。

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

目标代码作品的“相应源代码”指所有修改该作品及生成、安装、运行(对可执行作品而言)目标代码所需的所有源代码，或者修改作品的所有源代码，包括控制上述行为的脚本。可是，其中不包括系统库、通用工具、不需要修改就可以直接用于支持上述行为但不是该作品一部分的、通常可得自由软件。例如，相应的源代码包含与作品源文件相关的接口定义，以及共享库和该作品专门依赖的动态链接子程序的源代码。这里的依赖体现为密切的数据交换或者该子程序和作品其他部分的控制流切换。

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source. 相应的源代码不必包含那些用户可以通过源代码其他部分自动生成的内容。

The Corresponding Source for a work in source code form is that same work.

源代码形式作品的相应源代码即该作品本身。

2. Basic Permissions.

3. 基本授权

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

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You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

只要你获得的许可仍有效，你就可以制作、运行和传播不是你传递的受保护作品。在你遵守本许可证中关于转发你拥有版权的材料的条款

时，你可以向他人传递受保护的作品，以让对方单独为你定制修改，或者向你提供运行这些作品的工具。那些为你制作或运行这些受保护作品的人，必须根据你的指引和控制下，仅代表你工作，即禁止他们在双方关系之外制作任何你提供的受版权保护材料的副本。

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

仅当满足后文所述条件时，其他各种情况下的传递才是被允许的。不允许再授权，而第 10 条的存在也使再授权变得没有必要。

4. Protecting Users' Legal Rights From Anti-Circumvention Law.

5. 保护用户的合法权益免受反破解法限制

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures. 为了履行 1996 年 12 月 20 日通过的 WIPO 版权条约第 11 章规定的义务，法律规定了禁止或规避措施的条款，所有受保护作品不应该被视为规避这些法律条款的技术手段的一部分。

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

如果你传递一个受保护作品，即表明你放弃禁止技术规避措施的法律权利，行使本许可证所授予权利可以实现规避，同时，你也放弃禁止技术规避措施相关的法律赋予你或者第三方限制运行或者修改本作品的权利。

6. Conveying Verbatim Copies.

7. 传递原始副本

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

你可以通过任何媒介传递你接收到的本程序的完整源代码副本，但必须做到：为每一个副本明显而恰当地发布版权声明；完整地保留关于本许可及按第 7 条加入的非许可性条款；完整地保留所有免责声明；给接收者附上一份本许可证的副本。

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

你可以免费或收任何费用传递，也可以选择提供技术支持或品质担保以收取费用。

8. Conveying Modified Source Versions.

9. 传递经过修改的源代码

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

你可以以第 4 条规定的源代码形式传递基于本程序的作品或修改的内容，但必须满足以下要求：

- (a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- (b) 该作品必须带有明显的修改声明及相应的日期。

- (c) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to “keep intact all notices”.
- (d) 该作品必须带有明显的声明，指明其在本许可证及任何符合第 7 条的附加条款下发布。这个要求修正了第 4 条关于“完整保留所有声明”的内容。
- (e) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- (f) 你必须按照本许可证将该作品整体许可给任何得到副本的人。本许可证与符合第 7 条的附加条款共同适用于整个作品，以及作品的任何一部分，不管它们是如何组建的。本许可证不允许以其他形式许可本作品，但不会使你已经单独收到的其他授权无效。
- (g) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
- (h) 如果该作品有交互式用户界面，则其必须显示适当的法律声明。然而，当该程序有交互式用户界面却不显示适当的法律声明时，你的作品也无需使其显示。

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an

“aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

一个受保护作品与其他单独且独立的作品组成一个组合，其中的单独作品既不是受保护作品的自然延伸，也不是为了与受保护作品组成更大程序而与受保护作品存储或者分发介质上，并且这种组合和组合后的版权不会限制单独作品的授权，则这种组合称为“组合体”。

10. Conveying Non-Source Forms.

11. 以非源代码形式传递

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

你可以以第 4 条和第 5 条所述那样以目标代码形式传递受保护作品，同时在本许可证规范下以如下方式之一传递机器可读的对应源代码：

- (a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- (b) 通过物理产品（包括物理分发媒介）传递或者嵌入目标代码时，通过常用于软件交换的耐用型物理媒介传递相应的源代码。
- (c) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy

of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

- (d) 通过物理产品（包括物理分发媒介）时，附随具有至少 3 年有效期的书面承诺，并且有效期涵盖提供的备件或客户支持，以授予任何目标代码的持有者：（1）获得产品中全部受保护软件的相应源代码的副本，副本通过常用于软件交换的耐用型物理媒介提供，且收费不超过其合理的传递成本；或者（2）通过网络免费获得相应源代码的途径。
- (e) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- (f) 单独传递目标代码的副本时，伴以提供源代码的书面承诺。本选项仅在偶尔并且非商业情况下，同时你收到也是第 6 条 b 项所述的目标代码的情况下可用。
- (g) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts

the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

- (h) 通过在指定地址获取目标代码（无论是否收费）的形式传递目标代码时，对同一地址以同样的方式提供相应源代码同等访问权限，并不得额外收费。你不必要求接收者在复制目标代码的同时复制源代码。如果提供获取目标代码的地址为网络服务器，相应的源代码可以提供在另一个支持相同复制功能的服务器上（由你或者第三方运营），不过你要在目标代码处指出相应源代码的确切路径。不管你用什么源代码服务器，你有义务要确保持续可用以满足这些要求。
- (i) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.
- (j) 通过点对点传输传递目标代码时，告知其他节点目标代码和源代码在何处，并以第 6 条 d 项形式向大众免费提供。

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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32. Interpretation of Sections 15 and 16.

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```
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This is free software, and you are welcome to redistribute it
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