**开源软件声明**

**OPEN SOURCE SOFTWARE NOTICE**

|  |  |  |  |
| --- | --- | --- | --- |
| **开源软件名称**  **OPEN SOURCE SOFTWARE NAME** | **开源软件版本**  **OPEN SOURCE SOFTWARE**  **VERSION** | **许可证名称**  **LICENCE NAME** | **开源软件的官网地址**  **OPEN SOURCE SOFTWARE WEBSITE** |
| openjdk | 11 | GPL | https://openjdk.java.net/ |
| springboot | 2.5.6 | Apache License 2.0 | https://spring.io/projects/spring-boot |
| MySQL Community Server | 8.0.27 | GPL | https://www.mysql.com/ |
| nginx | 1.14.1 | 2-clause BSD license | https://www.nginx.com/ |
| Docker Engine - Community | 20.10.12 | Apache License | https://www.docker.com/ |
| minio | RELEASE.2022-01-07 | GNU Affero General Public License v3 | https://min.io/ |
| react | 17 | MIT License | https://reactjs.org/ |
| Node.js | 16 | MIT License | https://nodejs.org/ |
| antd | 4 | MIT License | https://ant.design/ |
| express.js | 1.0 | MIT License | https://expressjs.com/ |
| flask | 2.0 | 3-clause BSD license | http://docs.jinkan.org/docs/flask/ |
| tree.js | 0.77 | MIT License | https://github.com/marmelab/tree.js/ |
| paper.js | 0.12 | MIT License | http://paperjs.org/ |

# Software 软件名称及软件版本

*Openjdk 11*

*Springboot 2.5.6*

*MySQL Community Server 8.0.27*

*Nginx 1.14.1*

*Docker Engine – Community 20.10.12*

*Minio RELEASE.2022-01-07*

*React 17*

*Node.js 16*

*Antd 4*

*express.js 1.0*

*flask 2.0*

*tree.js 0.77*

*paper.js 0.12*

# Copyright notice 版权声明

*Openjdk*

Copyright © 1995, 2021, Oracle and/or its affiliates.

*Springboot*

*Copyright 2012-2021 the original author or authors.*

*MySQL Community Server*

Copyright © 1997, 2022, Oracle and/or its affiliates.

*Nginx*

*Copyright (C) 2002-2021 Igor Sysoev*

*Copyright (C) 2011-2022 Nginx, Inc.*

*All rights reserved.*

*Docker Engine - Community*

*Copyright 2013-2021 Docker, Inc. All rights reserved.*

*Minio*

*Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>*

*Everyone is permitted to copy and distribute verbatim copies*

*of this license document, but changing it is not allowed.*

*React*

*Copyright (c) Facebook, Inc. and its affiliates.*

*Antd*

*Copyright (c) 2015-present Ant UED,* [*https://xtech.antfin.com/*](https://xtech.antfin.com/)

*Express.js*

*Copyright (c) 2009-2014 TJ Holowaychuk <tj@vision-media.ca>*

*Copyright (c) 2013-2014 Roman Shtylman <shtylman+expressjs@gmail.com>*

*Copyright (c) 2014-2015 Douglas Christopher Wilson* [*doug@somethingdoug.com*](mailto:doug@somethingdoug.com)

*Flask*

*Copyright (c) 2012 by Armin Ronacher and contributors.*

*tree.js*

*Copyright <YEAR> <COPYRIGHT HOLDER>*

*under the MIT License*

*Paper.js*

*Copyright (c) 2011, Juerg Lehni & Jonathan Puckey*

*http://lehni.org/ & http://jonathanpuckey.com/*

*All rights reserved.*

# License 许可证

***Openjdk/ MySQL Community Server***

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license

document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share

and change it. By contrast, the GNU General Public License is intended to

guarantee your freedom to share and change free software--to make sure the

software is free for all its users. This General Public License applies to

most of the Free Software Foundation's software and to any other program whose

authors commit to using it. (Some other Free Software Foundation software is

covered by the GNU Library General Public License instead.) You can apply it to

your programs, too.

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 this service 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.

To protect your rights, we need to make restrictions that forbid anyone to deny

you these rights or to ask you to surrender the rights. These restrictions

translate to certain responsibilities for you if you distribute copies of the

software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for

a fee, you must give the recipients all the rights that you have. 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.

We protect your rights with two steps: (1) copyright the software, and (2)

offer you this license which gives you legal permission to copy, distribute

and/or modify the software.

Also, for each author's protection and ours, we want to make certain that

everyone understands that there is no warranty for this free software. If the

software is modified by someone else and passed on, we want its recipients to

know that what they have is not the original, so that any problems introduced

by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We

wish to avoid the danger that redistributors of a free program will

individually obtain patent licenses, in effect making the program proprietary.

To prevent this, we have made it clear that any patent must be licensed for

everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification

follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice

placed by the copyright holder saying it may be distributed under the terms of

this General Public License. The "Program", below, refers to any such program

or work, and a "work based on the Program" means either the Program or any

derivative work under copyright law: that is to say, a work containing the

Program or a portion of it, either verbatim or with modifications and/or

translated into another language. (Hereinafter, translation is included

without limitation in the term "modification".) Each licensee is addressed as

"you".

Activities other than copying, distribution and modification are not covered by

this License; they are outside its scope. The act of running the Program is

not restricted, and the output from the Program is covered only if its contents

constitute a work based on the Program (independent of having been made by

running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute 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 and

disclaimer of warranty; keep intact all the notices that refer to this License

and to the absence of any warranty; and give any other recipients of the

Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may

at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus

forming a work based on the Program, and copy and distribute such modifications

or work under the terms of Section 1 above, provided that you also meet all of

these conditions:

a) You must cause the modified files to carry prominent notices stating

that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or

in part contains or is derived from the Program or any part thereof, to be

licensed as a whole at no charge to all third parties under the terms of

this License.

c) If the modified program normally reads commands interactively when run,

you must cause it, when started running for such interactive use in the

most ordinary way, to print or display an announcement including an

appropriate copyright notice and a notice that there is no warranty (or

else, saying that you provide a warranty) and that users may redistribute

the program under these conditions, and telling the user how to view a copy

of this License. (Exception: if the Program itself is interactive but does

not normally print such an announcement, your work based on the Program is

not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable

sections of that work are not derived from the Program, and can be reasonably

considered independent and separate works in themselves, then this License, and

its terms, do not apply to those sections when you distribute them as separate

works. But when you distribute the same sections as part of a whole which is a

work based on the Program, the distribution of the whole must be on the terms

of this License, whose permissions for other licensees extend to the entire

whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your

rights to work written entirely by you; rather, the intent is to exercise the

right to control the distribution of derivative or collective works based on

the Program.

In addition, mere aggregation of another work not based on the Program with the

Program (or with a work based on the Program) on a volume of a storage or

distribution medium does not bring the other work under the scope of this

License.

3. You may copy and distribute the Program (or a work based on it, under

Section 2) in object code or executable form under the terms of Sections 1 and

2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source

code, which must be distributed under the terms of Sections 1 and 2 above

on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to

give any third party, for a charge no more than your cost of physically

performing source distribution, a complete machine-readable copy of the

corresponding source code, to be distributed under the terms of Sections 1

and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to

distribute corresponding source code. (This alternative is allowed only

for noncommercial distribution and only if you received the program in

object code or executable form with such an offer, in accord with

Subsection b above.)

The source code for a work means the preferred form of the work for making

modifications to it. For an executable work, complete source code means all

the source code for all modules it contains, plus any associated interface

definition files, plus the scripts used to control compilation and installation

of the executable. However, as a special exception, the source code

distributed need not include anything that is normally distributed (in either

source or binary form) with the major components (compiler, kernel, and so on)

of the operating system on which the executable runs, unless that component

itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy

from a designated place, then offering equivalent access to copy the source

code from the same place counts as distribution of the source code, even though

third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as

expressly provided under this License. Any attempt otherwise to copy, modify,

sublicense or distribute the Program is void, and will automatically terminate

your rights under this License. However, parties who have received copies, or

rights, from you under this License will not have their licenses terminated so

long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it.

However, nothing else grants you permission to modify or distribute the Program

or its derivative works. These actions are prohibited by law if you do not

accept this License. Therefore, by modifying or distributing the Program (or

any work based on the Program), you indicate your acceptance of this License to

do so, and all its terms and conditions for copying, distributing or modifying

the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program),

the recipient automatically receives a license from the original licensor to

copy, distribute or modify the Program subject to these terms and conditions.

You may not impose any further restrictions on the recipients' exercise of the

rights granted herein. You are not responsible for enforcing compliance by

third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions

are imposed on you (whether by court order, agreement or otherwise) that

contradict the conditions of this License, they do not excuse you from the

conditions of this License. If you cannot distribute so as to satisfy

simultaneously your obligations under this License and any other pertinent

obligations, then as a consequence you may not distribute the Program at all.

For example, if a patent license would not permit royalty-free redistribution

of the Program by all those who receive copies directly or indirectly through

you, then the only way you could satisfy both it and this License would be to

refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any

particular circumstance, the balance of the section is intended to apply and

the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or

other property right claims or to contest validity of any such claims; this

section has the sole purpose of protecting the integrity of the free software

distribution system, which is implemented by public license practices. Many

people have made generous contributions to the wide range of software

distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing to

distribute software through any other system and a licensee cannot impose that

choice.

This section is intended to make thoroughly clear what is believed to be a

consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain

countries either by patents or by copyrighted interfaces, the original

copyright holder who places the Program under this License may add an explicit

geographical distribution limitation excluding those countries, so that

distribution is permitted only in or among countries not thus excluded. In

such case, this License incorporates the limitation as if written in the body

of this License.

9. The Free Software Foundation may publish revised and/or new versions of the

General Public License from time to time. Such new versions will be similar in

spirit to the present version, but may differ in detail to address new problems

or concerns.

Each version is given a distinguishing version number. If the Program

specifies a version number of this License which applies to it and "any later

version", you have the option of following the terms and conditions either of

that version or of any later version published by the Free Software Foundation.

If the Program does not specify a version number of this License, you may

choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs

whose distribution conditions are different, write to the author to ask for

permission. For software which is copyrighted by the Free Software Foundation,

write to the Free Software Foundation; we sometimes make exceptions for this.

Our decision will be guided by the two goals of preserving the free status of

all derivatives of our free software and of promoting the sharing and reuse of

software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR

THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE

STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE

PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,

INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND

FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND

PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE,

YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL

ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE

PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY

GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR

INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA

BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A

FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER

OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible

use to the public, the best way to achieve this is to make it free software

which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach

them to the start of each source file to most effectively convey the exclusion

of warranty; and each file should have at least the "copyright" line and a

pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it

under the terms of the GNU General Public License as published by the Free

Software Foundation; either version 2 of the License, or (at your option)

any later version.

This program is distributed in the hope that it will be useful, but WITHOUT

ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or

FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for

more details.

You should have received a copy of the GNU General Public License along

with this program; if not, write to the Free Software Foundation, Inc., 59

Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it

starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes

with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free

software, and you are welcome to redistribute it under certain conditions;

type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may be

called something other than 'show w' and 'show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school,

if any, to sign a "copyright disclaimer" for the program, if necessary. Here

is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program

'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the

library. If this is what you want to do, use the GNU Library General Public

License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are

subject to the following clarification and special exception to the GPL, but

only where Oracle has expressly included in the particular source file's header

the words "Oracle designates this particular file as subject to the "Classpath"

exception as provided by Oracle in the LICENSE file that accompanied this code."

Linking this library statically or dynamically with other modules is making

a combined work based on this library. Thus, the terms and conditions of

the GNU General Public License cover the whole combination.

As a special exception, the copyright holders of this library give you

permission to link this library with independent modules to produce an

executable, regardless of the license terms of these independent modules,

and to copy and distribute the resulting executable under terms of your

choice, provided that you also meet, for each linked independent module,

the terms and conditions of the license of that module. An independent

module is a module which is not derived from or based on this library. If

you modify this library, you may extend this exception to your version of

the library, but you are not obligated to do so. If you do not wish to do

so, delete this exception statement from your version.

ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are

subject to the following clarification and special exception to the GPLv2,

based on the GNU Project exception for its Classpath libraries, known as the

GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software

package. Some of those programs are provided under licenses deemed

incompatible with the GPLv2 by the Free Software Foundation and others.

For example, the package includes programs licensed under the Apache

License, Version 2.0 and may include FreeType. Such programs are licensed

to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the

Classpath Exception to the necessary parts of its GPLv2 code, which permits

you to use that code in combination with other independent modules not

licensed under the GPLv2. However, note that this would not permit you to

commingle code under an incompatible license with Oracle's GPLv2 licensed

code by, for example, cutting and pasting such code into a file also

containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the

files to which it applies and distribute the result, you would likely be

required to license some or all of the other code in that distribution under

the GPLv2 as well, and since the GPLv2 is incompatible with the license terms

of some items included in the distribution by Oracle, removing the Classpath

Exception could therefore effectively compromise your ability to further

distribute the package.

Failing to distribute notices associated with some files may also create

unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer

skilled in open source matters before removing the Classpath Exception or

making modifications to this package which may subsequently be redistributed

and/or involve the use of third party software.

***Springboot/*** ***Nginx/*** ***Docker Engine - Community***

***Apache License 2.0***

**Apache License  
Version 2.0, January 2004**[**http://www.apache.org/licenses/**](http://www.apache.org/licenses/)

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

**1. Definitions**.

"**License**" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"**Licensor**" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"**Legal Entity**" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "**control**" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"**You**" (or "**Your**") shall mean an individual or Legal Entity exercising permissions granted by this License.

"**Source**" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"**Object**" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"**Work**" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"**Derivative Works**" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"**Contribution**" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "**submitted**" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "**Not a Contribution.**"

"**Contributor**" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

**2. Grant of Copyright License**. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

**3. Grant of Patent License**. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

**4. Redistribution**. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

1. You must give any other recipients of the Work or Derivative Works a copy of this License; and
2. You must cause any modified files to carry prominent notices stating that You changed the files; and
3. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
4. If the Work includes a "**NOTICE**" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.  
     
   You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

**5. Submission of Contributions**. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

**6. Trademarks**. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

**7. Disclaimer of Warranty**. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

**8. Limitation of Liability**. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

**9. Accepting Warranty or Additional Liability**. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

***Nginx***

***BSD 2-Clause License***

***Copyright (c) [year], [fullname]***

***All rights reserved.***

***Redistribution and use in source and binary forms, with or without***

***modification, are permitted provided that the following conditions are met:***

***1. Redistributions of source code must retain the above copyright notice, this***

***list of conditions and the following disclaimer.***

***2. Redistributions in binary form must reproduce the above copyright notice,***

***this list of conditions and the following disclaimer in the documentation***

***and/or other materials provided with the distribution.***

***THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"***

***AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE***

***IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE***

***DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE***

***FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL***

***DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR***

***SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER***

***CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,***

***OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE***

***OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.***

***Minio***

|  |
| --- |
| GNU AFFERO GENERAL PUBLIC LICENSE |
|  | Version 3, 19 November 2007 |
|  |  |
|  | Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/> |
|  | Everyone is permitted to copy and distribute verbatim copies |
|  | of this license document, but changing it is not allowed. |
|  |  |
|  | Preamble |
|  |  |
|  | The GNU Affero General Public License is a free, copyleft license for |
|  | software and other kinds of works, specifically designed to ensure |
|  | cooperation with the community in the case of network server software. |
|  |  |
|  | The licenses for most software and other practical works are designed |
|  | to take away your freedom to share and change the works. By contrast, |
|  | our General Public Licenses are 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. |
|  |  |
|  | 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. |
|  |  |
|  | Developers that use our General Public Licenses protect your rights |
|  | with two steps: (1) assert copyright on the software, and (2) offer |
|  | you this License which gives you legal permission to copy, distribute |
|  | and/or modify the software. |
|  |  |
|  | A secondary benefit of defending all users' freedom is that |
|  | improvements made in alternate versions of the program, if they |
|  | receive widespread use, become available for other developers to |
|  | incorporate. Many developers of free software are heartened and |
|  | encouraged by the resulting cooperation. However, in the case of |
|  | software used on network servers, this result may fail to come about. |
|  | The GNU General Public License permits making a modified version and |
|  | letting the public access it on a server without ever releasing its |
|  | source code to the public. |
|  |  |
|  | The GNU Affero General Public License is designed specifically to |
|  | ensure that, in such cases, the modified source code becomes available |
|  | to the community. It requires the operator of a network server to |
|  | provide the source code of the modified version running there to the |
|  | users of that server. Therefore, public use of a modified version, on |
|  | a publicly accessible server, gives the public access to the source |
|  | code of the modified version. |
|  |  |
|  | An older license, called the Affero General Public License and |
|  | published by Affero, was designed to accomplish similar goals. This is |
|  | a different license, not a version of the Affero GPL, but Affero has |
|  | released a new version of the Affero GPL which permits relicensing under |
|  | this license. |
|  |  |
|  | The precise terms and conditions for copying, distribution and |
|  | modification follow. |
|  |  |
|  | TERMS AND CONDITIONS |
|  |  |
|  | 0. Definitions. |
|  |  |
|  | "This License" refers to version 3 of the GNU Affero General Public License. |
|  |  |
|  | "Copyright" also means copyright-like laws that apply to other kinds of |
|  | works, such as semiconductor masks. |
|  |  |
|  | "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. |
|  |  |
|  | 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. |
|  |  |
|  | A "covered work" means either the unmodified Program or a work based |
|  | on the Program. |
|  |  |
|  | 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. |
|  |  |
|  | 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. |
|  |  |
|  | 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 interface presents a list of user commands or options, such as a |
|  | menu, a prominent item in the list meets this criterion. |
|  |  |
|  | 1. Source Code. |
|  |  |
|  | 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. |
|  |  |
|  | 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. |
|  |  |
|  | 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. |
|  |  |
|  | 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. |
|  |  |
|  | The Corresponding Source need not include anything that users |
|  | can regenerate automatically from other parts of the Corresponding |
|  | Source. |
|  |  |
|  | The Corresponding Source for a work in source code form is that |
|  | same work. |
|  |  |
|  | 2. Basic Permissions. |
|  |  |
|  | 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. |
|  |  |
|  | 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. |
|  |  |
|  | Conveying under any other circumstances is permitted solely under |
|  | the conditions stated below. Sublicensing is not allowed; section 10 |
|  | makes it unnecessary. |
|  |  |
|  | 3. Protecting Users' Legal Rights From Anti-Circumvention Law. |
|  |  |
|  | 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. |
|  |  |
|  | 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. |
|  |  |
|  | 4. Conveying Verbatim Copies. |
|  |  |
|  | 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. |
|  |  |
|  | 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. |
|  |  |
|  | 5. Conveying Modified Source Versions. |
|  |  |
|  | 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: |
|  |  |
|  | a) The work must carry prominent notices stating that you modified |
|  | it, and giving a relevant date. |
|  |  |
|  | b) 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". |
|  |  |
|  | c) 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. |
|  |  |
|  | d) 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. |
|  |  |
|  | 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. |
|  |  |
|  | 6. Conveying Non-Source Forms. |
|  |  |
|  | 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: |
|  |  |
|  | 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) 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. |
|  |  |
|  | c) 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. |
|  |  |
|  | d) 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. |
|  |  |
|  | e) 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. |
|  |  |
|  | 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. |
|  |  |
|  | A "User Product" is either (1) a "consumer product", which means any |
|  | tangible personal property which is normally used for personal, family, |
|  | or household purposes, or (2) anything designed or sold for incorporation |
|  | into a dwelling. In determining whether a product is a consumer product, |
|  | doubtful cases shall be resolved in favor of coverage. For a particular |
|  | product received by a particular user, "normally used" refers to a |
|  | typical or common use of that class of product, regardless of the status |
|  | of the particular user or of the way in which the particular user |
|  | actually uses, or expects or is expected to use, the product. A product |
|  | is a consumer product regardless of whether the product has substantial |
|  | commercial, industrial or non-consumer uses, unless such uses represent |
|  | the only significant mode of use of the product. |
|  |  |
|  | "Installation Information" for a User Product means any methods, |
|  | procedures, authorization keys, or other information required to install |
|  | and execute modified versions of a covered work in that User Product from |
|  | a modified version of its Corresponding Source. The information must |
|  | suffice to ensure that the continued functioning of the modified object |
|  | code is in no case prevented or interfered with solely because |
|  | modification has been made. |
|  |  |
|  | If you convey an object code work under this section in, or with, or |
|  | specifically for use in, a User Product, and the conveying occurs as |
|  | part of a transaction in which the right of possession and use of the |
|  | User Product is transferred to the recipient in perpetuity or for a |
|  | fixed term (regardless of how the transaction is characterized), the |
|  | Corresponding Source conveyed under this section must be accompanied |
|  | by the Installation Information. But this requirement does not apply |
|  | if neither you nor any third party retains the ability to install |
|  | modified object code on the User Product (for example, the work has |
|  | been installed in ROM). |
|  |  |
|  | The requirement to provide Installation Information does not include a |
|  | requirement to continue to provide support service, warranty, or updates |
|  | for a work that has been modified or installed by the recipient, or for |
|  | the User Product in which it has been modified or installed. Access to a |
|  | network may be denied when the modification itself materially and |
|  | adversely affects the operation of the network or violates the rules and |
|  | protocols for communication across the network. |
|  |  |
|  | Corresponding Source conveyed, and Installation Information provided, |
|  | in accord with this section must be in a format that is publicly |
|  | documented (and with an implementation available to the public in |
|  | source code form), and must require no special password or key for |
|  | unpacking, reading or copying. |
|  |  |
|  | 7. Additional Terms. |
|  |  |
|  | "Additional permissions" are terms that supplement the terms of this |
|  | License by making exceptions from one or more of its conditions. |
|  | Additional permissions that are applicable to the entire Program shall |
|  | be treated as though they were included in this License, to the extent |
|  | that they are valid under applicable law. If additional permissions |
|  | apply only to part of the Program, that part may be used separately |
|  | under those permissions, but the entire Program remains governed by |
|  | this License without regard to the additional permissions. |
|  |  |
|  | When you convey a copy of a covered work, you may at your option |
|  | remove any additional permissions from that copy, or from any part of |
|  | it. (Additional permissions may be written to require their own |
|  | removal in certain cases when you modify the work.) You may place |
|  | additional permissions on material, added by you to a covered work, |
|  | for which you have or can give appropriate copyright permission. |
|  |  |
|  | Notwithstanding any other provision of this License, for material you |
|  | add to a covered work, you may (if authorized by the copyright holders of |
|  | that material) supplement the terms of this License with terms: |
|  |  |
|  | a) Disclaiming warranty or limiting liability differently from the |
|  | terms of sections 15 and 16 of this License; or |
|  |  |
|  | b) Requiring preservation of specified reasonable legal notices or |
|  | author attributions in that material or in the Appropriate Legal |
|  | Notices displayed by works containing it; or |
|  |  |
|  | c) Prohibiting misrepresentation of the origin of that material, or |
|  | requiring that modified versions of such material be marked in |
|  | reasonable ways as different from the original version; or |
|  |  |
|  | d) Limiting the use for publicity purposes of names of licensors or |
|  | authors of the material; or |
|  |  |
|  | e) Declining to grant rights under trademark law for use of some |
|  | trade names, trademarks, or service marks; or |
|  |  |
|  | f) Requiring indemnification of licensors and authors of that |
|  | material by anyone who conveys the material (or modified versions of |
|  | it) with contractual assumptions of liability to the recipient, for |
|  | any liability that these contractual assumptions directly impose on |
|  | those licensors and authors. |
|  |  |
|  | All other non-permissive additional terms are considered "further |
|  | restrictions" within the meaning of section 10. If the Program as you |
|  | received it, or any part of it, contains a notice stating that it is |
|  | governed by this License along with a term that is a further |
|  | restriction, you may remove that term. If a license document contains |
|  | a further restriction but permits relicensing or conveying under this |
|  | License, you may add to a covered work material governed by the terms |
|  | of that license document, provided that the further restriction does |
|  | not survive such relicensing or conveying. |
|  |  |
|  | If you add terms to a covered work in accord with this section, you |
|  | must place, in the relevant source files, a statement of the |
|  | additional terms that apply to those files, or a notice indicating |
|  | where to find the applicable terms. |
|  |  |
|  | Additional terms, permissive or non-permissive, may be stated in the |
|  | form of a separately written license, or stated as exceptions; |
|  | the above requirements apply either way. |
|  |  |
|  | 8. Termination. |
|  |  |
|  | You may not propagate or modify a covered work except as expressly |
|  | provided under this License. Any attempt otherwise to propagate or |
|  | modify it is void, and will automatically terminate your rights under |
|  | this License (including any patent licenses granted under the third |
|  | paragraph of section 11). |
|  |  |
|  | However, if you cease all violation of this License, then your |
|  | license from a particular copyright holder is reinstated (a) |
|  | provisionally, unless and until the copyright holder explicitly and |
|  | finally terminates your license, and (b) permanently, if the copyright |
|  | holder fails to notify you of the violation by some reasonable means |
|  | prior to 60 days after the cessation. |
|  |  |
|  | Moreover, your license from a particular copyright holder is |
|  | reinstated permanently if the copyright holder notifies you of the |
|  | violation by some reasonable means, this is the first time you have |
|  | received notice of violation of this License (for any work) from that |
|  | copyright holder, and you cure the violation prior to 30 days after |
|  | your receipt of the notice. |
|  |  |
|  | Termination of your rights under this section does not terminate the |
|  | licenses of parties who have received copies or rights from you under |
|  | this License. If your rights have been terminated and not permanently |
|  | reinstated, you do not qualify to receive new licenses for the same |
|  | material under section 10. |
|  |  |
|  | 9. Acceptance Not Required for Having Copies. |
|  |  |
|  | You are not required to accept this License in order to receive or |
|  | run a copy of the Program. Ancillary propagation of a covered work |
|  | occurring solely as a consequence of using peer-to-peer transmission |
|  | to receive a copy likewise does not require acceptance. However, |
|  | nothing other than this License grants you permission to propagate or |
|  | modify any covered work. These actions infringe copyright if you do |
|  | not accept this License. Therefore, by modifying or propagating a |
|  | covered work, you indicate your acceptance of this License to do so. |
|  |  |
|  | 10. Automatic Licensing of Downstream Recipients. |
|  |  |
|  | Each time you convey a covered work, the recipient automatically |
|  | receives a license from the original licensors, to run, modify and |
|  | propagate that work, subject to this License. You are not responsible |
|  | for enforcing compliance by third parties with this License. |
|  |  |
|  | An "entity transaction" is a transaction transferring control of an |
|  | organization, or substantially all assets of one, or subdividing an |
|  | organization, or merging organizations. If propagation of a covered |
|  | work results from an entity transaction, each party to that |
|  | transaction who receives a copy of the work also receives whatever |
|  | licenses to the work the party's predecessor in interest had or could |
|  | give under the previous paragraph, plus a right to possession of the |
|  | Corresponding Source of the work from the predecessor in interest, if |
|  | the predecessor has it or can get it with reasonable efforts. |
|  |  |
|  | You may not impose any further restrictions on the exercise of the |
|  | rights granted or affirmed under this License. For example, you may |
|  | not impose a license fee, royalty, or other charge for exercise of |
|  | rights granted under this License, and you may not initiate litigation |
|  | (including a cross-claim or counterclaim in a lawsuit) alleging that |
|  | any patent claim is infringed by making, using, selling, offering for |
|  | sale, or importing the Program or any portion of it. |
|  |  |
|  | 11. Patents. |
|  |  |
|  | A "contributor" is a copyright holder who authorizes use under this |
|  | License of the Program or a work on which the Program is based. The |
|  | work thus licensed is called the contributor's "contributor version". |
|  |  |
|  | A contributor's "essential patent claims" are all patent claims |
|  | owned or controlled by the contributor, whether already acquired or |
|  | hereafter acquired, that would be infringed by some manner, permitted |
|  | by this License, of making, using, or selling its contributor version, |
|  | but do not include claims that would be infringed only as a |
|  | consequence of further modification of the contributor version. For |
|  | purposes of this definition, "control" includes the right to grant |
|  | patent sublicenses in a manner consistent with the requirements of |
|  | this License. |
|  |  |
|  | Each contributor grants you a non-exclusive, worldwide, royalty-free |
|  | patent license under the contributor's essential patent claims, to |
|  | make, use, sell, offer for sale, import and otherwise run, modify and |
|  | propagate the contents of its contributor version. |
|  |  |
|  | In the following three paragraphs, a "patent license" is any express |
|  | agreement or commitment, however denominated, not to enforce a patent |
|  | (such as an express permission to practice a patent or covenant not to |
|  | sue for patent infringement). To "grant" such a patent license to a |
|  | party means to make such an agreement or commitment not to enforce a |
|  | patent against the party. |
|  |  |
|  | If you convey a covered work, knowingly relying on a patent license, |
|  | and the Corresponding Source of the work is not available for anyone |
|  | to copy, free of charge and under the terms of this License, through a |
|  | publicly available network server or other readily accessible means, |
|  | then you must either (1) cause the Corresponding Source to be so |
|  | available, or (2) arrange to deprive yourself of the benefit of the |
|  | patent license for this particular work, or (3) arrange, in a manner |
|  | consistent with the requirements of this License, to extend the patent |
|  | license to downstream recipients. "Knowingly relying" means you have |
|  | actual knowledge that, but for the patent license, your conveying the |
|  | covered work in a country, or your recipient's use of the covered work |
|  | in a country, would infringe one or more identifiable patents in that |
|  | country that you have reason to believe are valid. |
|  |  |
|  | If, pursuant to or in connection with a single transaction or |
|  | arrangement, you convey, or propagate by procuring conveyance of, a |
|  | covered work, and grant a patent license to some of the parties |
|  | receiving the covered work authorizing them to use, propagate, modify |
|  | or convey a specific copy of the covered work, then the patent license |
|  | you grant is automatically extended to all recipients of the covered |
|  | work and works based on it. |
|  |  |
|  | A patent license is "discriminatory" if it does not include within |
|  | the scope of its coverage, prohibits the exercise of, or is |
|  | conditioned on the non-exercise of one or more of the rights that are |
|  | specifically granted under this License. You may not convey a covered |
|  | work if you are a party to an arrangement with a third party that is |
|  | in the business of distributing software, under which you make payment |
|  | to the third party based on the extent of your activity of conveying |
|  | the work, and under which the third party grants, to any of the |
|  | parties who would receive the covered work from you, a discriminatory |
|  | patent license (a) in connection with copies of the covered work |
|  | conveyed by you (or copies made from those copies), or (b) primarily |
|  | for and in connection with specific products or compilations that |
|  | contain the covered work, unless you entered into that arrangement, |
|  | or that patent license was granted, prior to 28 March 2007. |
|  |  |
|  | Nothing in this License shall be construed as excluding or limiting |
|  | any implied license or other defenses to infringement that may |
|  | otherwise be available to you under applicable patent law. |
|  |  |
|  | 12. No Surrender of Others' Freedom. |
|  |  |
|  | If conditions are imposed on you (whether by court order, agreement or |
|  | otherwise) that contradict the conditions of this License, they do not |
|  | excuse you from the conditions of this License. If you cannot convey a |
|  | covered work so as to satisfy simultaneously your obligations under this |
|  | License and any other pertinent obligations, then as a consequence you may |
|  | not convey it at all. For example, if you agree to terms that obligate you |
|  | to collect a royalty for further conveying from those to whom you convey |
|  | the Program, the only way you could satisfy both those terms and this |
|  | License would be to refrain entirely from conveying the Program. |
|  |  |
|  | 13. Remote Network Interaction; Use with the GNU General Public License. |
|  |  |
|  | Notwithstanding any other provision of this License, if you modify the |
|  | Program, your modified version must prominently offer all users |
|  | interacting with it remotely through a computer network (if your version |
|  | supports such interaction) an opportunity to receive the Corresponding |
|  | Source of your version by providing access to the Corresponding Source |
|  | from a network server at no charge, through some standard or customary |
|  | means of facilitating copying of software. This Corresponding Source |
|  | shall include the Corresponding Source for any work covered by version 3 |
|  | of the GNU General Public License that is incorporated pursuant to the |
|  | following paragraph. |
|  |  |
|  | Notwithstanding any other provision of this License, you have |
|  | permission to link or combine any covered work with a work licensed |
|  | under version 3 of the GNU General Public License into a single |
|  | combined work, and to convey the resulting work. The terms of this |
|  | License will continue to apply to the part which is the covered work, |
|  | but the work with which it is combined will remain governed by version |
|  | 3 of the GNU General Public License. |
|  |  |
|  | 14. Revised Versions of this License. |
|  |  |
|  | The Free Software Foundation may publish revised and/or new versions of |
|  | the GNU Affero General Public License from time to time. Such new versions |
|  | will be similar in spirit to the present version, but may differ in detail to |
|  | address new problems or concerns. |
|  |  |
|  | Each version is given a distinguishing version number. If the |
|  | Program specifies that a certain numbered version of the GNU Affero General |
|  | Public License "or any later version" applies to it, you have the |
|  | option of following the terms and conditions either of that numbered |
|  | version or of any later version published by the Free Software |
|  | Foundation. If the Program does not specify a version number of the |
|  | GNU Affero General Public License, you may choose any version ever published |
|  | by the Free Software Foundation. |
|  |  |
|  | If the Program specifies that a proxy can decide which future |
|  | versions of the GNU Affero General Public License can be used, that proxy's |
|  | public statement of acceptance of a version permanently authorizes you |
|  | to choose that version for the Program. |
|  |  |
|  | Later license versions may give you additional or different |
|  | permissions. However, no additional obligations are imposed on any |
|  | author or copyright holder as a result of your choosing to follow a |
|  | later version. |
|  |  |
|  | 15. Disclaimer of Warranty. |
|  |  |
|  | THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY |
|  | APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT |
|  | HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY |
|  | OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, |
|  | THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR |
|  | PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM |
|  | IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF |
|  | ALL NECESSARY SERVICING, REPAIR OR CORRECTION. |
|  |  |
|  | 16. Limitation of Liability. |
|  |  |
|  | IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING |
|  | WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS |
|  | THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY |
|  | GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE |
|  | USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF |
|  | DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD |
|  | PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), |
|  | EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF |
|  | SUCH DAMAGES. |
|  |  |
|  | 17. Interpretation of Sections 15 and 16. |
|  |  |
|  | If the disclaimer of warranty and limitation of liability provided |
|  | above cannot be given local legal effect according to their terms, |
|  | reviewing courts shall apply local law that most closely approximates |
|  | an absolute waiver of all civil liability in connection with the |
|  | Program, unless a warranty or assumption of liability accompanies a |
|  | copy of the Program in return for a fee. |
|  |  |
|  | END OF TERMS AND CONDITIONS |
|  |  |
|  | How to Apply These Terms to Your New Programs |
|  |  |
|  | If you develop a new program, and you want it to be of the greatest |
|  | possible use to the public, the best way to achieve this is to make it |
|  | free software which everyone can redistribute and change under these terms. |
|  |  |
|  | To do so, attach the following notices to the program. It is safest |
|  | to attach them to the start of each source file to most effectively |
|  | state the exclusion of warranty; and each file should have at least |
|  | the "copyright" line and a pointer to where the full notice is found. |
|  |  |
|  | <one line to give the program's name and a brief idea of what it does.> |
|  | Copyright (C) <year> <name of author> |
|  |  |
|  | This program is free software: you can redistribute it and/or modify |
|  | it under the terms of the GNU Affero General Public License as published by |
|  | the Free Software Foundation, either version 3 of the License, or |
|  | (at your option) any later version. |
|  |  |
|  | This program is distributed in the hope that it will be useful, |
|  | but WITHOUT ANY WARRANTY; without even the implied warranty of |
|  | MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the |
|  | GNU Affero General Public License for more details. |
|  |  |
|  | You should have received a copy of the GNU Affero General Public License |
|  | along with this program. If not, see <https://www.gnu.org/licenses/>. |
|  |  |
|  | Also add information on how to contact you by electronic and paper mail. |
|  |  |
|  | If your software can interact with users remotely through a computer |
|  | network, you should also make sure that it provides a way for users to |
|  | get its source. For example, if your program is a web application, its |
|  | interface could display a "Source" link that leads users to an archive |
|  | of the code. There are many ways you could offer source, and different |
|  | solutions will be better for different programs; see section 13 for the |
|  | specific requirements. |
|  |  |
|  | You should also get your employer (if you work as a programmer) or school, |
|  | if any, to sign a "copyright disclaimer" for the program, if necessary. |
|  | For more information on this, and how to apply and follow the GNU AGPL, see |
|  | <https://www.gnu.org/licenses/>. |

***React***

|  |
| --- |
| MIT License |
|  |  |
|  | Copyright (c) Facebook, Inc. and its affiliates. |
|  |  |
|  | Permission is hereby granted, free of charge, to any person obtaining a copy |
|  | of this software and associated documentation files (the "Software"), to deal |
|  | in the Software without restriction, including without limitation the rights |
|  | to use, copy, modify, merge, publish, distribute, sublicense, and/or sell |
|  | copies of the Software, and to permit persons to whom the Software is |
|  | furnished to do so, subject to the following conditions: |
|  |  |
|  | The above copyright notice and this permission notice shall be included in all |
|  | copies or substantial portions of the Software. |
|  |  |
|  | THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR |
|  | IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, |
|  | FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE |
|  | AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER |
|  | LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, |
|  | OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE |
|  | SOFTWARE. |

***Antd/tree.js***

|  |
| --- |
| MIT LICENSE |
|  |  |
|  | Copyright (c) 2015-present Ant UED, https://xtech.antfin.com/ |
|  |  |
|  | Permission is hereby granted, free of charge, to any person obtaining |
|  | a copy of this software and associated documentation files (the |
|  | "Software"), to deal in the Software without restriction, including |
|  | without limitation the rights to use, copy, modify, merge, publish, |
|  | distribute, sublicense, and/or sell copies of the Software, and to |
|  | permit persons to whom the Software is furnished to do so, subject to |
|  | the following conditions: |
|  |  |
|  | The above copyright notice and this permission notice shall be |
|  | included in all copies or substantial portions of the Software. |
|  |  |
|  | THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, |
|  | EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF |
|  | MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND |
|  | NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE |
|  | LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION |
|  | OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION |
|  | WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |

*Express.js*

|  |
| --- |
| (The MIT License) |
|  |  |
|  | Copyright (c) 2009-2014 TJ Holowaychuk <tj@vision-media.ca> |
|  | Copyright (c) 2013-2014 Roman Shtylman <shtylman+expressjs@gmail.com> |
|  | Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com> |
|  |  |
|  | Permission is hereby granted, free of charge, to any person obtaining |
|  | a copy of this software and associated documentation files (the |
|  | 'Software'), to deal in the Software without restriction, including |
|  | without limitation the rights to use, copy, modify, merge, publish, |
|  | distribute, sublicense, and/or sell copies of the Software, and to |
|  | permit persons to whom the Software is furnished to do so, subject to |
|  | the following conditions: |
|  |  |
|  | The above copyright notice and this permission notice shall be |
|  | included in all copies or substantial portions of the Software. |
|  |  |
|  | THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, |
|  | EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF |
|  | MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. |
|  | IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY |
|  | CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, |
|  | TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE |
|  | SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |

***Flask***

***3-clause BSD license***

***Copyright (c) 2012 by Armin Ronacher and contributors. See AUTHORS for more details.***

***Some rights reserved.***

***Redistribution and use in source and binary forms of the software as well as documentation, with or without modification, are permitted provided that the following conditions are met:***

***Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.***

***Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.***

***The names of the contributors may not be used to endorse or promote products derived from this software without specific prior written permission.***

***THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.***

***Paper.js***

MIT License

Paper.js is distributed under the permissive MIT License:

Copyright (c) 2011, Juerg Lehni & Jonathan Puckey  
<http://lehni.org/> & <http://jonathanpuckey.com/>  
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy  
of this software and associated documentation files (the "Software"), to deal  
in the Software without restriction, including without limitation the rights  
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell  
copies of the Software, and to permit persons to whom the Software is  
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in  
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# Written Offer 书面邀约

This page describes the sponsored-contribution process for the [JDK](https://openjdk.java.net/projects/jdk) and [JDK Updates](https://openjdk.java.net/projects/jdk-updates) Projects. Other [Projects](https://openjdk.java.net/bylaws#project) may follow these conventions or may establish their own; please consult the appropriate Project pages for details.

This process is intended for developers who already have the skills required to work on the JDK but who do not yet have full [Committer](https://openjdk.java.net/bylaws#committer) rights. It allows such developers to demonstrate their abilities by submitting meaningful contributions in the form of patches and by pairing them with sponsors, i.e., existing [Committers](https://openjdk.java.net/census) for the Project who can offer advice, help them become familiar with the JDK development process, and eventually push their patches into the appropriate [Mercurial repository](http://mercurial.selenic.com/). Over time, it's expected that skilled [Contributors](https://openjdk.java.net/bylaws#contributor) will eventually earn full [commit](https://openjdk.java.net/projects/#project-committer) rights for themselves.

This page focuses on the contributing side of the process; a companion page describes [how to sponsor](https://openjdk.java.net/sponsor/) a contribution.

## 0. Become a Contributor

Like many other open-source communities, the OpenJDK Community requires [Contributors](https://openjdk.java.net/bylaws#contributor) to jointly assign their copyright on contributed code. If you haven't yet signed the [Oracle Contributor Agreement](http://www.oracle.com/technetwork/oca-405177.pdf) (OCA) then please do so at the [OCA](https://oca.opensource.oracle.com/) web site. Please make sure to specify OpenJDK as the project you'd like to contribute to so that we can process and store your OCA. Allow at least two weeks for processing. If your request is urgent contact the appropriate [Project Lead](https://openjdk.java.net/census).

The OCA gives Oracle and the Contributor joint copyright interests in the code. The Contributor retains copyrights while also granting those rights to Oracle as the Community's sponsor. You only need to sign the OCA once in order to cover all changes that you might contribute to any Oracle-sponsored open-source community including not just OpenJDK but also, for example, [GlassFish](http://glassfish.java.net/), [NetBeans](http://netbeans.org/), and [MySQL](http://mysql.com/). If you've already signed the OCA or the former SCA (Sun Contributor Agreement) for any Oracle-sponsored open-source community, then you do not need to sign it again in order to contribute to OpenJDK. Please note that you do **not** need to sign an OCA if you work at Oracle or a company which has negotiated an equivalent agreement. (You can learn more about the OCA by consulting its [FAQ](https://oca.opensource.oracle.com/?ojr=faq).)

## 1. Find something interesting to work on

The most obvious thing to work on is a bug or enhancement (RFE) about which you are passionate. Please check the "JDK" Project of the [bug database](https://bugs.openjdk.java.net/) to see if your idea is already described there, and if so then use that bug/RFE's id number when writing about your work. If there's no existing bug or RFE then that's fine too; we just ask that you use a relevant id for tracking purposes, if one exists.

If you're interested in a particular area but don't have any specific ideas about what to do then feel free to post a query to the appropriate Group or Project [development list](https://mail.openjdk.java.net/) to ask for suggestions that match your skills and knowledge. A list of all the [Groups](https://openjdk.java.net/bylaws#group) and [Projects](https://openjdk.java.net/bylaws#project) may be found at the left-hand side of this page; you are more than welcome to [subscribe](https://mail.openjdk.java.net/) to any of their mailing lists. A complete list of all of the Groups, Projects, people and their roles may be found in the [census](https://openjdk.java.net/census).

## 2. Discuss your intended change

Before you invest significant time working on a change it may be worth discussing what you're trying to do with other engineers working on the same code. They're likely to be able to offer comments and suggestions that will result in a higher-quality change and a smoother submission process. Announcing that you're working on a particular item can also help to avoid wasted effort in case someone else is already working on it.

If you're thinking of working on an existing bug or RFE that's already tracked in the [bug database](https://bugs.openjdk.java.net/) then the best way to start such a discussion is to post a message to the appropriate development list with a subject line of the form

6543210: My favorite bug

where 6543210 is replaced with the actual OpenJDK bug or RFE id number and My favorite bug is replaced with the bug or RFE's synopsis.

## 3. Submit a patch

Your patch must be built and tested on all relevant platforms before submission. Refer to the mainline build and test instructions for the JDK here: [build](https://openjdk.java.net/groups/build/doc/building.html), [test](https://openjdk.java.net/groups/build/doc/testing.html). For JDK Update projects, see the respective repository. If you have problems building, you may send your questions to the [Build](https://openjdk.java.net/groups/build) Group's [mailing list](https://mail.openjdk.java.net/mailman/listinfo/build-dev). Note that a full build against recently synchronized sources with only your applied patch is required for each submitted change.

When your change is ready, send a message to the appropriate development list with a subject line of the form

[PATCH] 6543210: My favorite bug

where 6543210 and My favorite bug are replaced as above. If no existing bug or RFE describes your change then omit the id number and one will be created and assigned.

The message should contain three things, either directly, or in the body as attachments:

* A description of the change, including a rationale for your approach and a discussion of any alternative approaches that were considered, if relevant. If no existing bug or RFE describes your change then also include a description of the problem that it solves or the need that it addresses.
* The code change itself, relative to an existing changeset in the appropriate Mercurial repository. The preferred form is generated by Mercurial's hg export command, with the -g option so that file renames are tracked correctly. The output of hg diff -g is also acceptable, and in the worst case traditional [unified diffs](http://www.gnu.org/software/diffutils/manual/html_mono/diff.html#Unified%20Format) (-u) are okay too, at least for simple changes.
* A unit test, written for the [jtreg](https://openjdk.java.net/jtreg) test harness, that validates your change. The test should fail when run against a build without the change and succeed when run against a build with the change. Unit tests aren't always practical, especially for changes such as performance improvements or fixes to bugs that are highly platform-dependent, but if practical then a unit test is required.

## 4. Work with your sponsor

If an existing [JDK](https://openjdk.java.net/census#jdk) or [JDK Updates](https://openjdk.java.net/census#jdk-updates) Committer decides to sponsor your proposed change then that person will take ownership of your bug.

Your sponsor will evaluate your patch for correctness, compatibility, stability, performance, coding style, and overall appropriateness to the current phase of the intended Project's development. Your sponsor will work with you to address any remaining deficiencies and then guide you through the rest of the development process, navigating the relevant internal Oracle engineering processes on your behalf and ultimately, if all goes well, pushing your patch into the appropriate Mercurial repository.

## 5. Know what to expect

Only the best patches submitted will actually make it all the way into a JDK code base. The goal is not to take in the maximum number of contributions possible, but rather to accept only the highest-quality contributions. The JDK is used daily by millions of people and thousands of businesses, often in mission-critical applications, and so we can't afford to accept anything less than the very best.

If you're relatively new to the Java platform then we recommend that you gain more experience writing Java applications before you attempt to work on the JDK itself. The purpose of the sponsored-contribution process is to bring developers who already have the skills required to work on the JDK into the existing development community. The members of that community have neither the time nor the patience required to teach basic Java programming skills or platform implementation techniques. (Oracle offers [formal training](http://education.oracle.com/pls/web_prod-plq-dad/db_pages.getpage?page_id=402&p_nl=JJAV&p_key=Java_Training&intcmp=WWOU11042412MPP012C010) if that's what you're looking for.)

The feature releases currently under development are in the [JDK Project](https://openjdk.java.net/projects/jdk). Most development work is focused on the newest release, so generally you should be working against the latest JDK [sources](https://hg.openjdk.java.net/jdk/jdk) rather than the [JDK Updates](https://openjdk.java.net/projects/jdk-updates) sources. Fixes for critical bugs may eventually be backported, but only after they "soak" in JDK for at least one full test cycle (about six weeks).

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

This documentation is NOT distributed under a GPL license. Use of this documentation is subject to the following terms:

You may create a printed copy of this documentation solely for your own personal use. Conversion to other formats is allowed as long as the actual content is not altered or edited in any way. You shall not publish or distribute this documentation in any form or on any media, except if you distribute the documentation in a manner similar to how Oracle disseminates it (that is, electronically for download on a Web site with the software) or on a CD-ROM or similar medium, provided however that the documentation is disseminated together with the software on the same medium. Any other use, such as any dissemination of printed copies or use of this documentation, in whole or in part, in another publication, requires the prior written consent from an authorized representative of Oracle. Oracle and/or its affiliates reserve any and all rights to this documentation not expressly granted above.