**开源软件/组件声明**

**open source software/components NOTICE**

|  |  |  |  |
| --- | --- | --- | --- |
| **开源软件/组件名称****open source software/components NAME** | **开源软件/组件版本****open source software/components****VERSION** | **许可证名称****LICENCE NAME** | **开源软件/组件的官网地址****open source software/components WEBSITE** |
| Maven | 3.5.4 | Apache License 2.0 | https://maven.apache.org/ |
| easyexcel | 3.3.2 | Apache License 2.0 | https://easyexcel.opensource.alibaba.com/ |
| Spring-cloud | 2.2.3.RELEASE |  | https://spring.io/ |
| Mybaits-plus | 3.3.1 | Apache License 2.0 | https://mybatis.plus/ |
| shiro | 1.5.3 | Apache License 2.0 | https://shiro.apache.org/ |
| hutool | 5.1.1 | Apache License 2.0 | https://www.hutool.cn/ |
| Eventbus | 3.3.0 | Apache License 2.0 | http://greenrobot.org/eventbus/documentation/how-to-get-started/ |
| gson | 2.8.6 | Apache License 2.0 | http://code.google.com/p/google-gson/ |
| zxing | 3.4.1 | Apache License 2.0 | http://code.google.com/p/zxing/ |
| okhttp | 4.9.0 | Apache License 2.0 | http://square.github.io/okhttp/ |
| xpopup | 2.9.19 | Apache License 2.0 | https://github.com/li-xiaojun/XPopup |
| ucrop | 2.2.1 | Apache License 2.0 | https://github.com/Yalantis/uCrop |
| circleImageView | 3.1.0 | Apache License 2.0 | https://github.com/hdodenhof/CircleImageView |

# Software/components 软件/组件名称及版本

***easyexcel 3.3.2***

***Spring-cloud 2.2.3.RELEASE***

***Mybaits-plus 3.3.1***

***shiro 1.5.3***

***hutool 5.1.1***

***Eventbus 3.3.0***

***gson 2.8.6***

***zxing 3.4.1***

***okhttp 4.9.0***

***xpopup 2.9.19***

***ucrop 2.2.1***

***circleImageView 3.1.0***

# Copyright notice 版权声明

#### Maven <https://maven.apache.org/>

***© 2002–2024 The Apache Software Foundation***

#### Easyexcel <https://easyexcel.opensource.alibaba.com/>

***Copyright © 2024 Alibaba, Inc. Built with Docusaurus. 备案号：浙B2-20120091-4***

#### Spring-cloud <https://spring.io/>

***Copyright © 2005 - 2024 Broadcom. All Rights Reserved. The term "Broadcom" refers to Broadcom Inc. and/or its subsidiaries.***

***Terms of Use • Privacy • Trademark Guidelines • Your California Privacy Rights • Cookie 设置***

***Apache®, Apache Tomcat®, Apache Kafka®, Apache Cassandra™, and Apache Geode™ are trademarks or registered trademarks of the Apache Software Foundation in the United States and/or other countries. Java™, Java™ SE, Java™ EE, and OpenJDK™ are trademarks of Oracle and/or its affiliates. Kubernetes® is a registered trademark of the Linux Foundation in the United States and other countries. Linux® is the registered trademark of Linus Torvalds in the United States and other countries. Windows® and Microsoft® Azure are registered trademarks of Microsoft Corporation. “AWS” and “Amazon Web Services” are trademarks or registered trademarks of Amazon.com Inc. or its affiliates. All other trademarks and copyrights are property of their respective owners and are only mentioned for informative purposes. Other names may be trademarks of their respective owners.***

#### Mybaits-plus <https://mybatis.plus/>

***Apache License 2.0 | © 2016-2023 baomidou***

#### shiro <https://shiro.apache.org/>

***Copyright © 2008-2024 The Apache Software Foundation***

#### hutool <https://www.hutool.cn/>

***© 2024 Hutool Project. All Rights Reserved.***

***Designed by Looly Member of Dromara***

#### eventBus <***http://greenrobot.org/eventbus/documentation/how-to-get-started/***>

***greenrobot Open Source Libraries: EventBus, greenDAO, greenrobot Common. © Copyright 2020 greenrobot. All rights reserved. Impressum***

#### okhttp <http://square.github.io/okhttp/>

Copyright © 2022 Block, Inc

Made with Material for MkDocs

#### xpopup <https://github.com/li-xiaojun/XPopup>

Copyright 2019 li-xiaojun

#### ucrop <https://github.com/Yalantis/uCrop>

Copyright 2017, Yalantis

#### circleImageView <https://github.com/hdodenhof/CircleImageView>

Copyright 2014 - 2020 Henning Dodenhof

# License 许可证

#### Maven <https://maven.apache.org/>

 Apache License

 Version 2.0, January 2004

 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:

 (a) You must give any other recipients of the Work or

 Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices

 stating that You changed the files; and

 (c) 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

 (d) 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

 APPENDIX: How to apply the Apache License to your work.

 To apply the Apache License to your work, attach the following

 boilerplate notice, with the fields enclosed by brackets "[]"

 replaced with your own identifying information. (Don't include

 the brackets!) The text should be enclosed in the appropriate

 comment syntax for the file format. We also recommend that a

 file or class name and description of purpose be included on the

 same "printed page" as the copyright notice for easier

 identification within third-party archives.

 Copyright [yyyy] [name of copyright owner]

 Licensed under the Apache License, Version 2.0 (the "License");

 you may not use this file except in compliance with the License.

 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software

 distributed under the License is distributed on an "AS IS" BASIS,

 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

 See the License for the specific language governing permissions and

 limitations under the License.

Apache Maven includes a number of components and libraries with separate

copyright notices and license terms. Your use of those components are

subject to the terms and conditions of the following licenses.

AOP alliance (http://aopalliance.sourceforge.net) aopalliance:aopalliance:jar:1.0

 License: Public Domain

Apache Commons CLI (http://commons.apache.org/proper/commons-cli/) commons-cli:commons-cli:jar:1.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/commons-cli.license)

Apache Commons IO (http://commons.apache.org/proper/commons-io/) commons-io:commons-io:jar:2.5

 License: Apache License, Version 2.0 http://www.apache.org/licenses/LICENSE-2.0.txt (lib/commons-io.license)

JSR-250 Common Annotations for the JavaTM Platform (http://jcp.org/aboutJava/communityprocess/final/jsr250/index.html) javax.annotation:jsr250-api:jar:1.0

 License: COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0 https://glassfish.java.net/public/CDDLv1.0.html (lib/jsr250-api.license)

CDI APIs (http://www.seamframework.org/Weld/cdi-api) javax.enterprise:cdi-api:jar:1.0

 License: Apache License, Version 2.0 http://www.apache.org/licenses/LICENSE-2.0 (lib/cdi-api.license)

Apache Commons Lang (http://commons.apache.org/proper/commons-lang/) org.apache.commons:commons-lang3:jar:3.5

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/commons-lang3.license)

Maven Artifact (https://maven.apache.org/ref/3.5.4/maven-artifact/) org.apache.maven:maven-artifact:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-artifact.license)

Maven Builder Support (https://maven.apache.org/ref/3.5.4/maven-builder-support/) org.apache.maven:maven-builder-support:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-builder-support.license)

Maven Compat (https://maven.apache.org/ref/3.5.4/maven-compat/) org.apache.maven:maven-compat:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-compat.license)

Maven Core (https://maven.apache.org/ref/3.5.4/maven-core/) org.apache.maven:maven-core:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-core.license)

Maven Embedder (https://maven.apache.org/ref/3.5.4/maven-embedder/) org.apache.maven:maven-embedder:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-embedder.license)

Maven Model (https://maven.apache.org/ref/3.5.4/maven-model/) org.apache.maven:maven-model:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-model.license)

Maven Model Builder (https://maven.apache.org/ref/3.5.4/maven-model-builder/) org.apache.maven:maven-model-builder:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-model-builder.license)

Maven Plugin API (https://maven.apache.org/ref/3.5.4/maven-plugin-api/) org.apache.maven:maven-plugin-api:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-plugin-api.license)

Maven Repository Metadata Model (https://maven.apache.org/ref/3.5.4/maven-repository-metadata/) org.apache.maven:maven-repository-metadata:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-repository-metadata.license)

Maven Artifact Resolver Provider (https://maven.apache.org/ref/3.5.4/maven-resolver-provider/) org.apache.maven:maven-resolver-provider:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-resolver-provider.license)

Maven Settings (https://maven.apache.org/ref/3.5.4/maven-settings/) org.apache.maven:maven-settings:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-settings.license)

Maven Settings Builder (https://maven.apache.org/ref/3.5.4/maven-settings-builder/) org.apache.maven:maven-settings-builder:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-settings-builder.license)

Maven SLF4J Simple Provider (https://maven.apache.org/ref/3.5.4/maven-slf4j-provider/) org.apache.maven:maven-slf4j-provider:jar:3.5.4

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-slf4j-provider.license)

Maven Artifact Resolver API (https://maven.apache.org/resolver/maven-resolver-api/) org.apache.maven.resolver:maven-resolver-api:jar:1.1.1

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-resolver-api.license)

Maven Artifact Resolver Connector Basic (https://maven.apache.org/resolver/maven-resolver-connector-basic/) org.apache.maven.resolver:maven-resolver-connector-basic:jar:1.1.1

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-resolver-connector-basic.license)

Maven Artifact Resolver Implementation (https://maven.apache.org/resolver/maven-resolver-impl/) org.apache.maven.resolver:maven-resolver-impl:jar:1.1.1

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-resolver-impl.license)

Maven Artifact Resolver SPI (https://maven.apache.org/resolver/maven-resolver-spi/) org.apache.maven.resolver:maven-resolver-spi:jar:1.1.1

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-resolver-spi.license)

Maven Artifact Resolver Transport Wagon (https://maven.apache.org/resolver/maven-resolver-transport-wagon/) org.apache.maven.resolver:maven-resolver-transport-wagon:jar:1.1.1

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-resolver-transport-wagon.license)

Maven Artifact Resolver Utilities (https://maven.apache.org/resolver/maven-resolver-util/) org.apache.maven.resolver:maven-resolver-util:jar:1.1.1

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-resolver-util.license)

Apache Maven Shared Utils (https://maven.apache.org/shared/maven-shared-utils/) org.apache.maven.shared:maven-shared-utils:jar:3.2.1

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/maven-shared-utils.license)

Apache Maven Wagon :: Providers :: File Provider (https://maven.apache.org/wagon/wagon-providers/wagon-file) org.apache.maven.wagon:wagon-file:jar:3.1.0

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/wagon-file.license)

Apache Maven Wagon :: Providers :: HTTP Provider (https://maven.apache.org/wagon/wagon-providers/wagon-http) org.apache.maven.wagon:wagon-http:jar:3.1.0

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/wagon-http.license)

Apache Maven Wagon :: API (https://maven.apache.org/wagon/wagon-provider-api) org.apache.maven.wagon:wagon-provider-api:jar:3.1.0

 License: Apache License, Version 2.0 https://www.apache.org/licenses/LICENSE-2.0.txt (lib/wagon-provider-api.license)

Plexus :: Component Annotations (http://codehaus-plexus.github.io/plexus-containers/plexus-component-annotations/) org.codehaus.plexus:plexus-component-annotations:jar:1.7.1

 License: Apache License, Version 2.0 http://www.apache.org/licenses/LICENSE-2.0.txt (lib/plexus-component-annotations.license)

Plexus Interpolation API (http://codehaus-plexus.github.io/plexus-interpolation/) org.codehaus.plexus:plexus-interpolation:bundle:1.24

 License: Apache License, Version 2.0 http://www.apache.org/licenses/LICENSE-2.0.txt (lib/plexus-interpolation.license)

Plexus Common Utilities (http://codehaus-plexus.github.io/plexus-utils/) org.codehaus.plexus:plexus-utils:jar:3.1.0

 License: Apache License, Version 2.0 http://www.apache.org/licenses/LICENSE-2.0.txt (lib/plexus-utils.license)

org.eclipse.sisu.inject (http://www.eclipse.org/sisu/org.eclipse.sisu.inject/) org.eclipse.sisu:org.eclipse.sisu.inject:eclipse-plugin:0.3.3

 License: Eclipse Public License, Version 1.0 http://www.eclipse.org/legal/epl-v10.html (lib/org.eclipse.sisu.inject.license)

org.eclipse.sisu.plexus (http://www.eclipse.org/sisu/org.eclipse.sisu.plexus/) org.eclipse.sisu:org.eclipse.sisu.plexus:eclipse-plugin:0.3.3

 License: Eclipse Public License, Version 1.0 http://www.eclipse.org/legal/epl-v10.html (lib/org.eclipse.sisu.plexus.license)

JCL 1.2 implemented over SLF4J (http://www.slf4j.org) org.slf4j:jcl-over-slf4j:jar:1.7.25

 License: MIT License http://www.opensource.org/licenses/mit-license.php (lib/jcl-over-slf4j.license)

SLF4J API Module (http://www.slf4j.org) org.slf4j:slf4j-api:jar:1.7.25

 License: MIT License http://www.opensource.org/licenses/mit-license.php (lib/slf4j-api.license)

Plexus Cipher: encryption/decryption Component (http://spice.sonatype.org/plexus-cipher) org.sonatype.plexus:plexus-cipher:jar:1.7

 License: Apache Public License 2.0 http://www.apache.org/licenses/LICENSE-2.0 (lib/plexus-cipher.license)

Plexus Security Dispatcher Component (http://spice.sonatype.org/plexus-sec-dispatcher) org.sonatype.plexus:plexus-sec-dispatcher:jar:1.4

 License: Apache Public License 2.0 http://www.apache.org/licenses/LICENSE-2.0 (lib/plexus-sec-dispatcher.license)

#### Easyexcel <https://easyexcel.opensource.alibaba.com/>

Apache License

 Version 2.0, January 2004

 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:

 (a) You must give any other recipients of the Work or

 Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices

 stating that You changed the files; and

 (c) 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

 (d) 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

 APPENDIX: How to apply the Apache License to your work.

 To apply the Apache License to your work, attach the following

 boilerplate notice, with the fields enclosed by brackets "[]"

 replaced with your own identifying information. (Don't include

 the brackets!) The text should be enclosed in the appropriate

 comment syntax for the file format. We also recommend that a

 file or class name and description of purpose be included on the

 same "printed page" as the copyright notice for easier

 identification within third-party archives.

 Copyright [yyyy] [name of copyright owner]

 Licensed under the Apache License, Version 2.0 (the "License");

 you may not use this file except in compliance with the License.

 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software

 distributed under the License is distributed on an "AS IS" BASIS,

 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

 See the License for the specific language governing permissions and

 limitations under the License.

#### Spring-cloud <https://spring.io/>

Apache License

Version 2.0, January 2004

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:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

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

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

#### Mybaits-plus <https://mybatis.plus/>

Apache License

Version 2.0, January 2004

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:

You must give any other recipients of the Work or Derivative Works a copy of

this License; and

You must cause any modified files to carry prominent notices stating that You

changed the files; and

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

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

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate

notice, with the fields enclosed by brackets "{}" replaced with your own

identifying information. (Don't include the brackets!) The text should be

enclosed in the appropriate comment syntax for the file format. We also

recommend that a file or class name and description of purpose be included on

the same "printed page" as the copyright notice for easier identification within

third-party archives.

 Copyright 2016 青苗

 Licensed under the Apache License, Version 2.0 (the "License");

 you may not use this file except in compliance with the License.

 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software

 distributed under the License is distributed on an "AS IS" BASIS,

 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

 See the License for the specific language governing permissions and

 limitations under the License.

#### shiro <https://shiro.apache.org/>

 Apache License

 Version 2.0, January 2004

 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:

 (a) You must give any other recipients of the Work or

 Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices

 stating that You changed the files; and

 (c) 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

 (d) 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

 APPENDIX: How to apply the Apache License to your work.

 To apply the Apache License to your work, attach the following

 boilerplate notice, with the fields enclosed by brackets "[]"

 replaced with your own identifying information. (Don't include

 the brackets!) The text should be enclosed in the appropriate

 comment syntax for the file format. We also recommend that a

 file or class name and description of purpose be included on the

 same "printed page" as the copyright notice for easier

 identification within third-party archives.

 Copyright [yyyy] [name of copyright owner]

 Licensed under the Apache License, Version 2.0 (the "License");

 you may not use this file except in compliance with the License.

 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software

 distributed under the License is distributed on an "AS IS" BASIS,

 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

 See the License for the specific language governing permissions and

 limitations under the License.

#### hutool <https://www.hutool.cn/>

 ***Apache License***

 ***Version 2.0, January 2004***

 ***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:***

 ***(a) You must give any other recipients of the Work or***

 ***Derivative Works a copy of this License; and***

 ***(b) You must cause any modified files to carry prominent notices***

 ***stating that You changed the files; and***

 ***(c) 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***

 ***(d) 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***

 ***APPENDIX: How to apply the Apache License to your work.***

 ***To apply the Apache License to your work, attach the following***

 ***boilerplate notice, with the fields enclosed by brackets "[]"***

 ***replaced with your own identifying information. (Don't include***

 ***the brackets!) The text should be enclosed in the appropriate***

 ***comment syntax for the file format. We also recommend that a***

 ***file or class name and description of purpose be included on the***

 ***same "printed page" as the copyright notice for easier***

 ***identification within third-party archives.***

 ***Copyright [yyyy] [name of copyright owner]***

 ***Licensed under the Apache License, Version 2.0 (the "License");***

 ***you may not use this file except in compliance with the License.***

 ***You may obtain a copy of the License at***

 ***http://www.apache.org/licenses/LICENSE-2.0***

 ***Unless required by applicable law or agreed to in writing, software***

 ***distributed under the License is distributed on an "AS IS" BASIS,***

 ***WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.***

 ***See the License for the specific language governing permissions and***

 ***limitations under the License.***

#### eventBus <***http://greenrobot.org/eventbus/documentation/how-to-get-started/***>

Apache License

 Version 2.0, January 2004

 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:

 (a) You must give any other recipients of the Work or

 Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices

 stating that You changed the files; and

 (c) 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

 (d) 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

 APPENDIX: How to apply the Apache License to your work.

 To apply the Apache License to your work, attach the following

 boilerplate notice, with the fields enclosed by brackets "[]"

 replaced with your own identifying information. (Don't include

 the brackets!) The text should be enclosed in the appropriate

 comment syntax for the file format. We also recommend that a

 file or class name and description of purpose be included on the

 same "printed page" as the copyright notice for easier

 identification within third-party archives.

 Copyright [yyyy] [name of copyright owner]

 Licensed under the Apache License, Version 2.0 (the "License");

 you may not use this file except in compliance with the License.

 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software

 distributed under the License is distributed on an "AS IS" BASIS,

 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

 See the License for the specific language governing permissions and

 limitations under the License.

#### ***G***son <http://code.google.com/p/google-gson/>

#### Zxing <http://code.google.com/p/zxing/>

Apache License

 Version 2.0, January 2004

 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:

 (a) You must give any other recipients of the Work or

 Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices

 stating that You changed the files; and

 (c) 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

 (d) 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

 APPENDIX: How to apply the Apache License to your work.

 To apply the Apache License to your work, attach the following

 boilerplate notice, with the fields enclosed by brackets "[]"

 replaced with your own identifying information. (Don't include

 the brackets!) The text should be enclosed in the appropriate

 comment syntax for the file format. We also recommend that a

 file or class name and description of purpose be included on the

 same "printed page" as the copyright notice for easier

 identification within third-party archives.

 Copyright [yyyy] [name of copyright owner]

 Licensed under the Apache License, Version 2.0 (the "License");

 you may not use this file except in compliance with the License.

 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software

 distributed under the License is distributed on an "AS IS" BASIS,

 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

 See the License for the specific language governing permissions and

 limitations under the License.

#### okhttp <http://square.github.io/okhttp/>

Apache License

 Version 2.0, January 2004

 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:

 (a) You must give any other recipients of the Work or

 Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices

 stating that You changed the files; and

 (c) 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

 (d) 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

 APPENDIX: How to apply the Apache License to your work.

 To apply the Apache License to your work, attach the following

 boilerplate notice, with the fields enclosed by brackets "[]"

 replaced with your own identifying information. (Don't include

 the brackets!) The text should be enclosed in the appropriate

 comment syntax for the file format. We also recommend that a

 file or class name and description of purpose be included on the

 same "printed page" as the copyright notice for easier

 identification within third-party archives.

 Copyright [yyyy] [name of copyright owner]

 Licensed under the Apache License, Version 2.0 (the "License");

 you may not use this file except in compliance with the License.

 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software

 distributed under the License is distributed on an "AS IS" BASIS,

 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

 See the License for the specific language governing permissions and

 limitations under the License.

#### xpopup <https://github.com/li-xiaojun/XPopup>

Apache License

 Version 2.0, January 2004

 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:

 (a) You must give any other recipients of the Work or

 Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices

 stating that You changed the files; and

 (c) 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

 (d) 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

 APPENDIX: How to apply the Apache License to your work.

 To apply the Apache License to your work, attach the following

 boilerplate notice, with the fields enclosed by brackets "[]"

 replaced with your own identifying information. (Don't include

 the brackets!) The text should be enclosed in the appropriate

 comment syntax for the file format. We also recommend that a

 file or class name and description of purpose be included on the

 same "printed page" as the copyright notice for easier

 identification within third-party archives.

 Copyright [yyyy] [name of copyright owner]

 Licensed under the Apache License, Version 2.0 (the "License");

 you may not use this file except in compliance with the License.

 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software

 distributed under the License is distributed on an "AS IS" BASIS,

 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

 See the License for the specific language governing permissions and

 limitations under the License.

#### ucrop <https://github.com/Yalantis/uCrop>

Apache License

 Version 2.0, January 2004

 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:

 (a) You must give any other recipients of the Work or

 Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices

 stating that You changed the files; and

 (c) 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

 (d) 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

 APPENDIX: How to apply the Apache License to your work.

 To apply the Apache License to your work, attach the following

 boilerplate notice, with the fields enclosed by brackets "[]"

 replaced with your own identifying information. (Don't include

 the brackets!) The text should be enclosed in the appropriate

 comment syntax for the file format. We also recommend that a

 file or class name and description of purpose be included on the

 same "printed page" as the copyright notice for easier

 identification within third-party archives.

 Copyright [yyyy] [name of copyright owner]

 Licensed under the Apache License, Version 2.0 (the "License");

 you may not use this file except in compliance with the License.

 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software

 distributed under the License is distributed on an "AS IS" BASIS,

 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

 See the License for the specific language governing permissions and

 limitations under the License.

#### circleImageView <https://github.com/hdodenhof/CircleImageView>

Apache License

 Version 2.0, January 2004

 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:

 (a) You must give any other recipients of the Work or

 Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices

 stating that You changed the files; and

 (c) 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

 (d) 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

 APPENDIX: How to apply the Apache License to your work.

 To apply the Apache License to your work, attach the following

 boilerplate notice, with the fields enclosed by brackets "[]"

 replaced with your own identifying information. (Don't include

 the brackets!) The text should be enclosed in the appropriate

 comment syntax for the file format. We also recommend that a

 file or class name and description of purpose be included on the

 same "printed page" as the copyright notice for easier

 identification within third-party archives.

 Copyright [yyyy] [name of copyright owner]

 Licensed under the Apache License, Version 2.0 (the "License");

 you may not use this file except in compliance with the License.

 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software

 distributed under the License is distributed on an "AS IS" BASIS,

 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

 See the License for the specific language governing permissions and

 limitations under the License.

# Written Offer 书面邀约

 *无*