

오픈소스 SW 바르게 사용하기

박은정

2015년 4월 10일

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Xiaomi is finally releasing kernel source files for Mi3, Mi4, and Mi Note

BY BOGDAN PETROVAN | MARCH 31, 2015 | 3

2K
SHARES



Xiaomi sure took its time, but the Chinese company is now finally releasing the source code for the Mi3, Mi4, and Mi Note kernels.

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2K
SHARES



1586



50



367



Xiaomi sure took its time, but the Chinese company is now finally releasing the source code for the Mi3, Mi4, and Mi Note kernels.

저작권과 라이선스

오픈소스 SW란?

Generally, open source refers to
a computer program in which
the source code is available to the general public
for use and/or modification
from its original design.

[출처] Wikipedia: http://en.wikipedia.org/wiki/Open_source

오픈소스 SW란?

소프트웨어의 설계도에 해당하는
소스코드를 인터넷 등을 통하여 무상으로 공개하여
누구나 그 소프트웨어를 개량하고,
이것을 재배포할 수 있도록 하는 것
또는 그런 소프트웨어를 말한다.

[출처] 두산백과: <http://terms.naver.com/entry.nhn?docId=1228317&cid=40942&categoryId=32837>

소스코드가 공개되어 있으면
자유롭게 사용 가능할까?

NO.



모든 SW에는 저작권이 있습니다.

Copyright

저작권(Copyright)이란?



legal right created by the law of a country
that grants the creator of an original work
exclusive rights to its use and distribution

[출처]

Wikipedia: <http://en.wikipedia.org/wiki/Copyright>

저작권(Copyright)이란?

인간의 사상 또는 감정을 표현한 창작물인
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창작과 동시에 자동적으로 저작권이 발생하여
저작권법의 보호를 받을 수 있음

[출처]

두산백과: <http://terms.naver.com/entry.nhn?docId=1139062&cid=40942&categoryId=31721>

한국저작권위원회: <http://www.copyright.or.kr/information-materials/common-sense/knowledge-for-netizen/index.do>

소스코드가 공개되어 있더라도
저작권자의 허락이 없다면
SW를 자유롭게 사용할 수 없습니다.

오픈소스 SW 라이선스란?

오픈소스 SW 개발자가
자신의 SW에 대해
사용 조건 및 범위를 명시한 계약



johnezang July 12, 2012 Add a `#ifdef` to silence a `clang` static analyzer false positive wa...

4 contributors



file | 3066 lines (2509 sloc) | 177.265 kb



Open

Edit

Raw

Blame

History

Delete

```
1 //
2 // JSONKit.m
3 // http://github.com/johnezang/JSONKit
4 // Dual licensed under either the terms of the BSD License, or alternatively
5 // under the terms of the Apache License, Version 2.0, as specified below.
6 //
```

```
8 /*
9 Copyright (c) 2011, John Engelhart
10
11 All rights reserved.
```

```
12
13 Redistribution and use in source and binary forms, with or without
14 modification, are permitted provided that the following conditions are met:
```

```
15
16 * Redistributions of source code must retain the above copyright
17 notice, this list of conditions and the following disclaimer.
```

```
18
19 * Redistributions in binary form must reproduce the above copyright
20 notice, this list of conditions and the following disclaimer in the
21 documentation and/or other materials provided with the distribution.
```

```
22
23 * Neither the name of the Zang Industries nor the names of its
24 contributors may be used to endorse or promote products derived from
25 this software without specific prior written permission.
```

```
26
27 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
28 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
29 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
30 A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
31 OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
32 SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
33 TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
34 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
35 LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
36 NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
37 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
38 */
```

→ 저작권

→ 라이선스

함부로 삭제하거나 수정하면
저작권 침해에 해당됩니다.

오픈소스 SW 라이선스

오픈소스 SW 라이선스의 흔한 예

```
/*
 * -----
 * "THE BEER-WARE LICENSE" (Revision 42):
 * <phk@FreeBSD.ORG> wrote this file.  As long as you retain this notice you
 * can do whatever you want with this stuff.  If we meet some day, and you think
 * this stuff is worth it, you can buy me a beer in return.   Poul-Henning Kamp
 * -----
 */
```

[출처]

Wikipedia: <http://en.wikipedia.org/wiki/Beerware>

오픈소스 SW 라이선스의 보편적 의무사항

- 저작권/라이선스 정보 표시
- 수정/추가된 소스코드 공개
- 원본 오픈소스 SW와 동일한 라이선스로 재배포
- 오픈소스 SW가 사용된 SW의 전체 소스코드 공개

자주 사용되는 오픈소스 SW 라이선스

	저작권 표시	라이선스 표시	수정한 소스 공개	라이선스 승계	전체 소스 공개	OSS Projects
GPL	0	0	0	0	0	Linux, Git
LGPL	0	0	0	0	X	ffmpeg
MPL	0	0	0	△	X	Firefox
BSD	0	0	X	X	X	CocoaLumberjack
Apache	0	0	X	X	X	Android, Apache Project, SVN
MIT	0	0	X	X	X	jQuery, Nodejs

permissive vs. copyleft

copyleft 라이선스란?



Licenses that allow derivative works
but **require them to use the same license
as the original work**

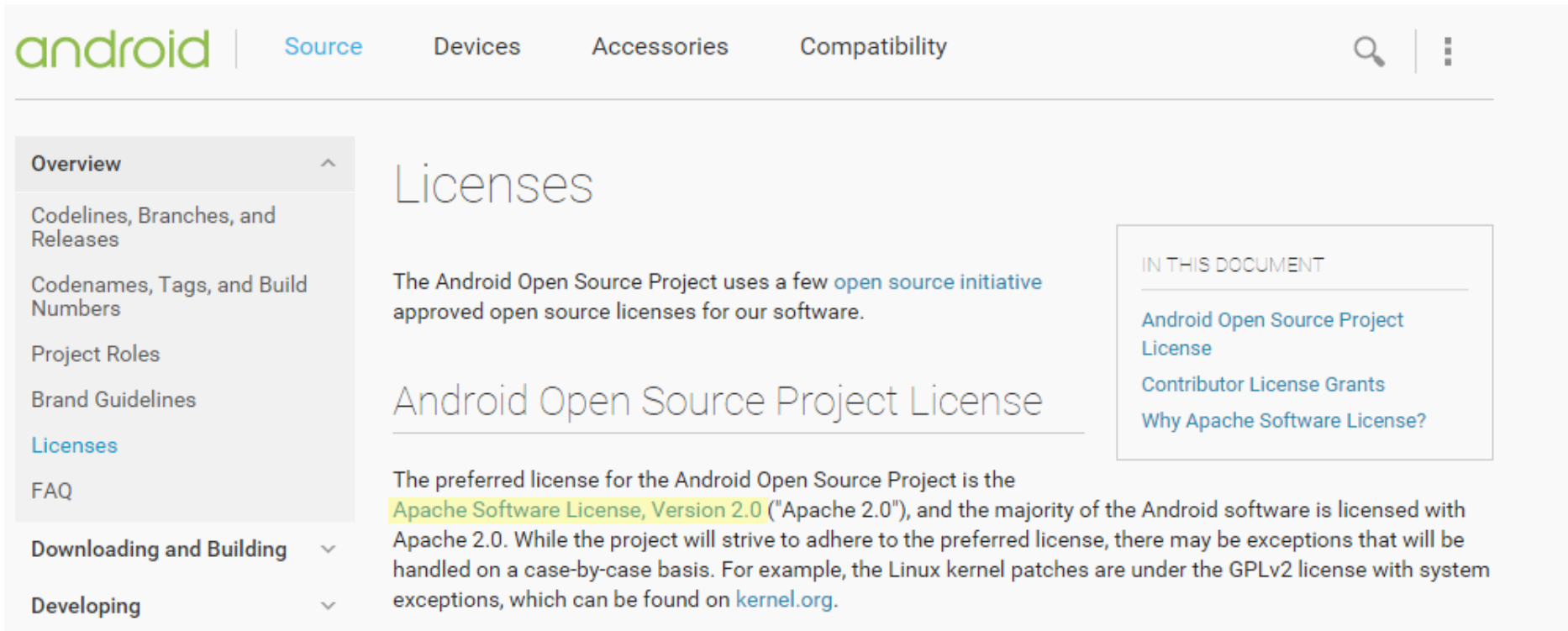
[출처]

Open Source Initiative: <http://opensource.org/faq#copyleft>

Wikipedia: <http://en.wikipedia.org/wiki/Copyleft>

오픈소스 SW를 사용하기 전,
어떤 라이선스로 배포되고 있는 지
확인이 필요합니다.

오픈소스 SW 라이선스 확인: Android



The screenshot shows the 'Licenses' page of the Android Open Source Project. The header includes the 'android' logo and navigation links for 'Source', 'Devices', 'Accessories', and 'Compatibility'. A search icon and a menu icon are on the right. The left sidebar contains a list of navigation items: 'Overview' (expanded), 'Codelines, Branches, and Releases', 'Codenames, Tags, and Build Numbers', 'Project Roles', 'Brand Guidelines', 'Licenses' (highlighted), 'FAQ', 'Downloading and Building', and 'Developing'. The main content area is titled 'Licenses' and contains a paragraph stating that the project uses a few open source initiative approved open source licenses. Below this is a section titled 'Android Open Source Project License' which states that the preferred license is the Apache Software License, Version 2.0 ('Apache 2.0'). A right-hand sidebar titled 'IN THIS DOCUMENT' lists links to 'Android Open Source Project License', 'Contributor License Grants', and 'Why Apache Software License?'. The footer of the page shows the text 'NAVER | L | A | B | S'.

android | Source Devices Accessories Compatibility

Overview ^

- Codelines, Branches, and Releases
- Codenames, Tags, and Build Numbers
- Project Roles
- Brand Guidelines
- Licenses**
- FAQ
- Downloading and Building v
- Developing v

Licenses

The Android Open Source Project uses a few [open source initiative](#) approved open source licenses for our software.

Android Open Source Project License

The preferred license for the Android Open Source Project is the [Apache Software License, Version 2.0](#) ("Apache 2.0"), and the majority of the Android software is licensed with Apache 2.0. While the project will strive to adhere to the preferred license, there may be exceptions that will be handled on a case-by-case basis. For example, the Linux kernel patches are under the GPLv2 license with system exceptions, which can be found on [kernel.org](#).

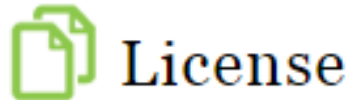
IN THIS DOCUMENT

- [Android Open Source Project License](#)
- [Contributor License Grants](#)
- [Why Apache Software License?](#)

NAVER | L | A | B | S

[출처] Android Open Source Project: <https://source.android.com/source/licenses.html>

오픈소스 SW 라이선스 확인: Node.js



Node.js is released under the **MIT license**, and bundles other liberally licensed OSS components.

Download the license

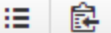
[출처] Node.js org: <https://nodejs.org/download/>

오픈소스 SW를 사용할 때에는
라이선스에 따르는 의무사항을
지켜야 합니다.

오픈소스 SW 라이선스 준수: Pinpoint의 third-party notice

branch: master

pinpoint / NOTICE



 **beanmilk** on 12 Jan Update NOTICE

1 contributor

874 lines (663 sloc) | 42.919 kb

Raw


Blame

History



```
1 Pinpoint
2 Copyright 2014 NAVER Corp.
3
4 The Pinpoint project contains subcomponents with separate copyright notices and license terms.
5 Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.
6
7 =====
8 spring-hadoop (https://github.com/spring-projects/spring-hadoop)
9 =====
10
11 /*
12  * Copyright 2014 the original author or authors.
13  *
14  * Licensed under the Apache License, Version 2.0 (the "License");
15  * you may not use this file except in compliance with the License.
16  * You may obtain a copy of the License at
17  *
18  *     http://www.apache.org/licenses/LICENSE-2.0
19  *
20  * Unless required by applicable law or agreed to in writing, software
21  * distributed under the License is distributed on an "AS IS" BASIS,
22  * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
23  * See the License for the specific language governing permissions and
24  * limitations under the License.
25  */
```


오픈소스 SW 라이선스 준수: Xiaomi의 소스코드 공개

 **MiCode / Xiaomi_Kernel_OpenSource**

[Watch](#) 63 [Star](#) 199 [Fork](#) 162

Xiaomi kernel OpenSource : cancro-kk-oss(contain MI 3W, MI 3C, MI 4 series, MI NOTE), armani-jb-oss(H1S), dior-kk-oss(HM-NOTE-LTE)

339,803 commits 4 branches 0 releases 2,958 contributors

 branch: master **Xiaomi_Kernel_OpenSource / +**

Xiaomi kernel changes for HM 1S JB

hehao authored on 30 Dec 2014 latest commit 730f3718c0

Documentation	Merge "hwmon: qpnpc-adc-current: Fix IADC RSENSE trim error"	a year ago
arch	Xiaomi kernel changes for HM 1S JB	3 months ago
block	Revert "block: Add URGENT request notification support to CFQ scheduler"	2 years ago
crypto	Merge git://git.kernel.org/pub/scm/linux/kernel/git/herbert/crypto-2.6	3 years ago
drivers	Xiaomi kernel changes for HM 1S JB	3 months ago
firmware	Xiaomi kernel changes for HM 1S JB	3 months ago
fs	Merge "ext4: fix memory leak in xattr"	a year ago
include	Xiaomi kernel changes for HM 1S JB	3 months ago

[Code](#)
[Issues](#) 11
[Pull requests](#) 1
[Wiki](#)
[Pulse](#)
[Graphs](#)

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<https://github.com/>
You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).
[Clone in Desktop](#)
[Download ZIP](#)

And One More Thing,

오픈소스 SW에 contribution을 한다면...

CLA (Contributor License Agreement)

Terms under which
intellectual property has been contributed to
a company/project,
typically software under an open source license

[출처]

Wikipedia: http://en.wikipedia.org/wiki/Contributor_License_Agreement

CLA 예시: Elastic

Please sign: Individual Contributor License Agreement

Your signed form will be sent to CLA Committers

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