



# F-Droid

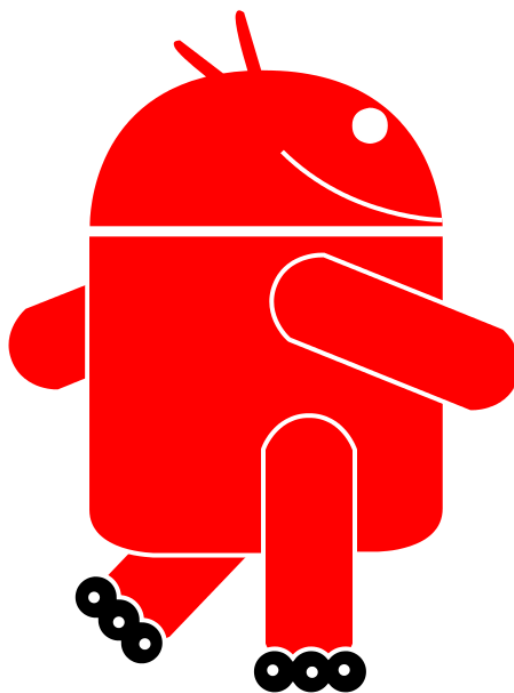
Free Software app distribution for Android

Daniel Martí - [mvdan@mvdan.cc](mailto:mvdan@mvdan.cc)

[#fdroid](#) on freenode

[gitorious.org/f-droid](https://github.com/mvdan/f-droid)





[replicant.us](http://replicant.us)



[gitorious.org/~ciarang](https://gitorious.org/~ciarang)



Free Software  
license

Source code in  
a VCS

Buildable from  
source





Free Software  
license

Source code in  
a VCS

Buildable from  
source

**Tags!**





Free Software  
license

Source code in  
a VCS

**Tags!**

Buildable from  
source

**Yes, source!**





Server

Client



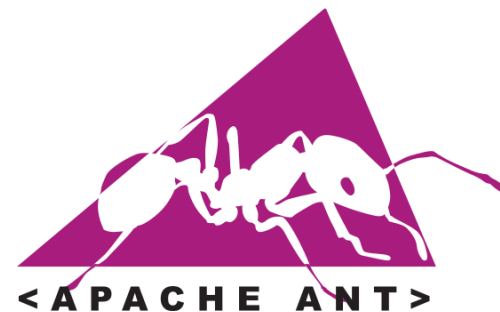
Data

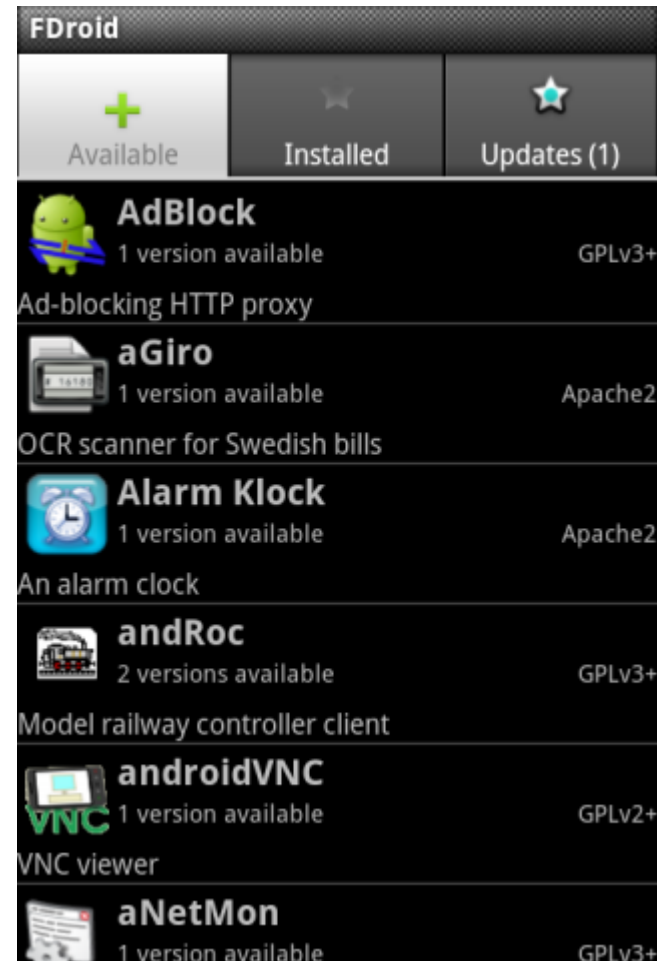
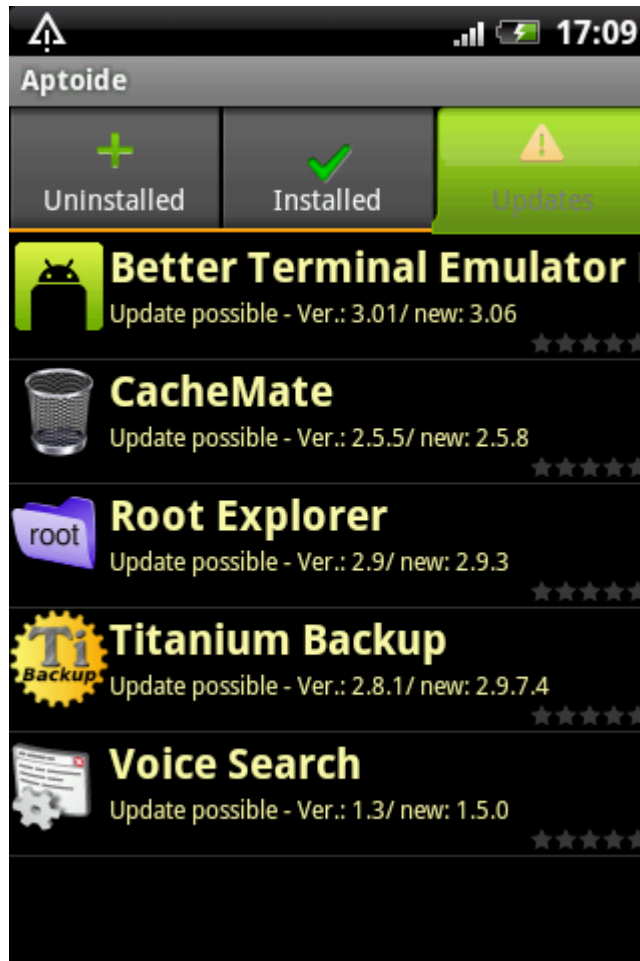






OpenJDK







William Theaker, 2012  
CC-BY-SA 3.0 Unported



Robert Martinez, 2013  
CC-BY-SA 3.0 Unported





OpenJDK

***ma*ven**





Client performance

Gradle support

Icon loading

Client design

# Challenges

Security

More automation

User-friendly metadata



[gradle.org](https://gradle.org)

[github.com/ligi](https://github.com/ligi)



[github.com/nostra13/Android-Universal-Image-Loader](https://github.com/nostra13/Android-Universal-Image-Loader)













12:08

F-Droid

AVAILABLE INSTALLED UPDATES (0)

What's New









|   |   |                      |
|---|---|----------------------|
|    | <b>MMSKeeper</b><br>Switch data off and still allow MMS traffic       | 1.0<br>GPLv3+        |
|    | <b>NetCounter</b><br>Bandwidth usage tracker                          | 0.14.1<br>GPLv3      |
|    | <b>Plumble</b><br>Voice chat for Mumble servers                       | 3.0.0-beta2<br>GPLv3 |
|    | <b>Smashwords Access</b><br>eBook shop                                | 014 beta<br>GPLv3    |
|    | <b>/system/app mover</b><br>Add and remove system apps                | 1.5.6 ✓<br>Apache2   |
|   | <b>Busybox Installer</b><br>System tools installer                    | 10.9<br>Apache2      |
|  | <b>FOSDEM Companion</b><br>Schedule browser for the FOSDEM conference | 1.0.5 ✓<br>Apache2   |
|  | <b>SecDroid</b><br>Secure your device from attacks                    | 3<br>GPLv2+          |
|  | <b>Gomoku</b><br>Five in a Row Game                                   | 0.1<br>GPLv3         |
|  | <b>Oware</b><br>Abstract African board game                           | 0.1<br>GPLv3         |

12:09

F-Droid

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|  | <b>SecDroid</b>  | 3                    |





# **The mighty Recipe**



Build Version:2.0,200,v2.0



Build Version:2.0,200,v2.0

Build Version:2.0,200,v2.0,subdir=myapp



Build Version:2.0,200,v2.0

Build Version:2.0,200,v2.0,subdir=myapp

Build Version:2.0,200,v2.0,subdir=myapp,buildjni=yes



Build Version:2.0,200,v2.0

Build Version:2.0,200,v2.0,subdir=myapp

Build Version:2.0,200,v2.0,subdir=myapp,buildjni=yes

Build Version:2.0,200,v2.0,subdir=myapp,buildjni=yes,\

update=.;extern/some-library,srclibs=AndroidLib@1.0,\

init=rm -rf apks/, \

prebuild=echo 'android.library.reference.1=\$\$AnotherLib\$\$ >>  
project.properties



Build:2.0,200

commit=v2.0

subdir=myapp

buildjni=yes

srclibs=AnotherLib@1.0

update=.;extern/some-library

init=rm -rf apks/

prebuild=echo 'android.library.reference.1=\$\$AnotherLib\$\$ >>  
project.properties



Build:2.0,200

commit=v2.0

subdir=myapp

buildjni=yes

srclibs=1:AnotherLib@1.0

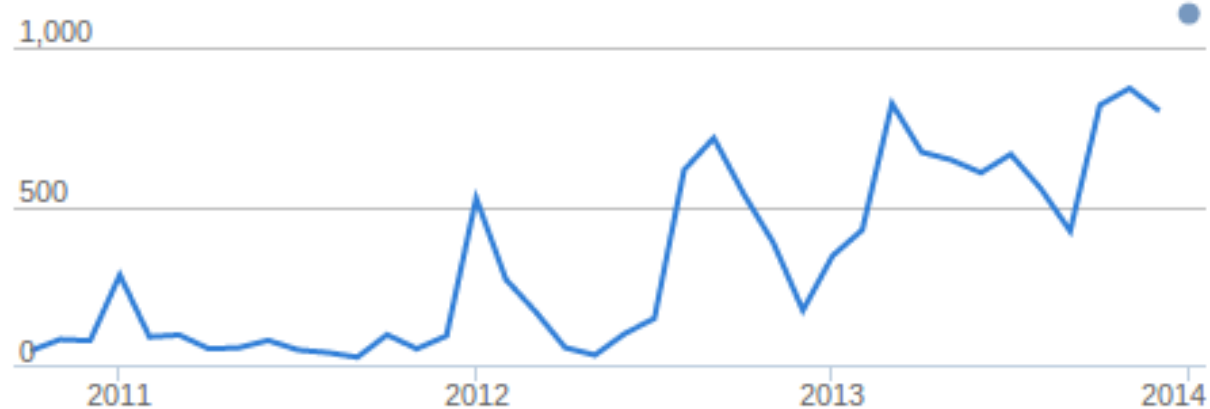
update=.;extern/some-library

init=rm -rf apks/

prebuild=echo 'android.library.reference.1=\$\$AnotherLib\$\$ >>  
project.properties



## Commits per Month



### Contributors per Month







# App maintenance

70 apps currently automated



# Source code checking

a.k.a. is it really source code?



# Anti-Features



# Package signing



**GUARDIAN  
PROJECT**  
<https://guardianproject.info>



MemorizingTrustManager (TOFU)

AndroidPinning (SPKI hash)

[gitorious.org/~eightave](https://gitorious.org/~eightave)

[gitorious.org/~cpu](https://gitorious.org/~cpu)



[gitorious.org/~dominikschuermann](https://gitorious.org/~dominikschuermann)



# Client performance

[gitorious.org/~pserwylo](https://gitorious.org/~pserwylo)



*Why isn't my app in F-Droid?*





*Why isn't my app in F-Droid?*

*X is not yet updated in F-Droid!*



*Why don't you just use the  
download stats to sort by  
popularity?*

*Rating systems FTW!*



*You don't support my build  
system!*



*X is free but not in F-Droid, so  
I'll just download it from  
someplace else*





[Drupal Editor](#)

2

Started by: [samtuke](#)

[G2L Gesture Launcher](#)

1

Started by: [vishnu](#)

[RiverFerry - BAC](#)

1

Started by: [mdecorde](#)

[vimphone - linphone fork \(sip VOIP phone\)](#)

1

Started by: [google.com/accounts/o8...](#)

[CSipSimple - VoIP application using SIP](#)

2

Started by: [marco\\_silva85](#)

[CountIt](#)

1

Started by: [Manuel](#)



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#365   Closed   [Addition of the FOSS rewrite of the Plumble mumble client](#)

#364   Closed   [Fixed Wordpress 2.6RC2 build](#)

#363   Closed   [MozStumbler v0.10.2](#)

#362   Closed   [updated description](#)

#361   Closed   [Added IMSDroid \(WIP\) & SecDroid](#)

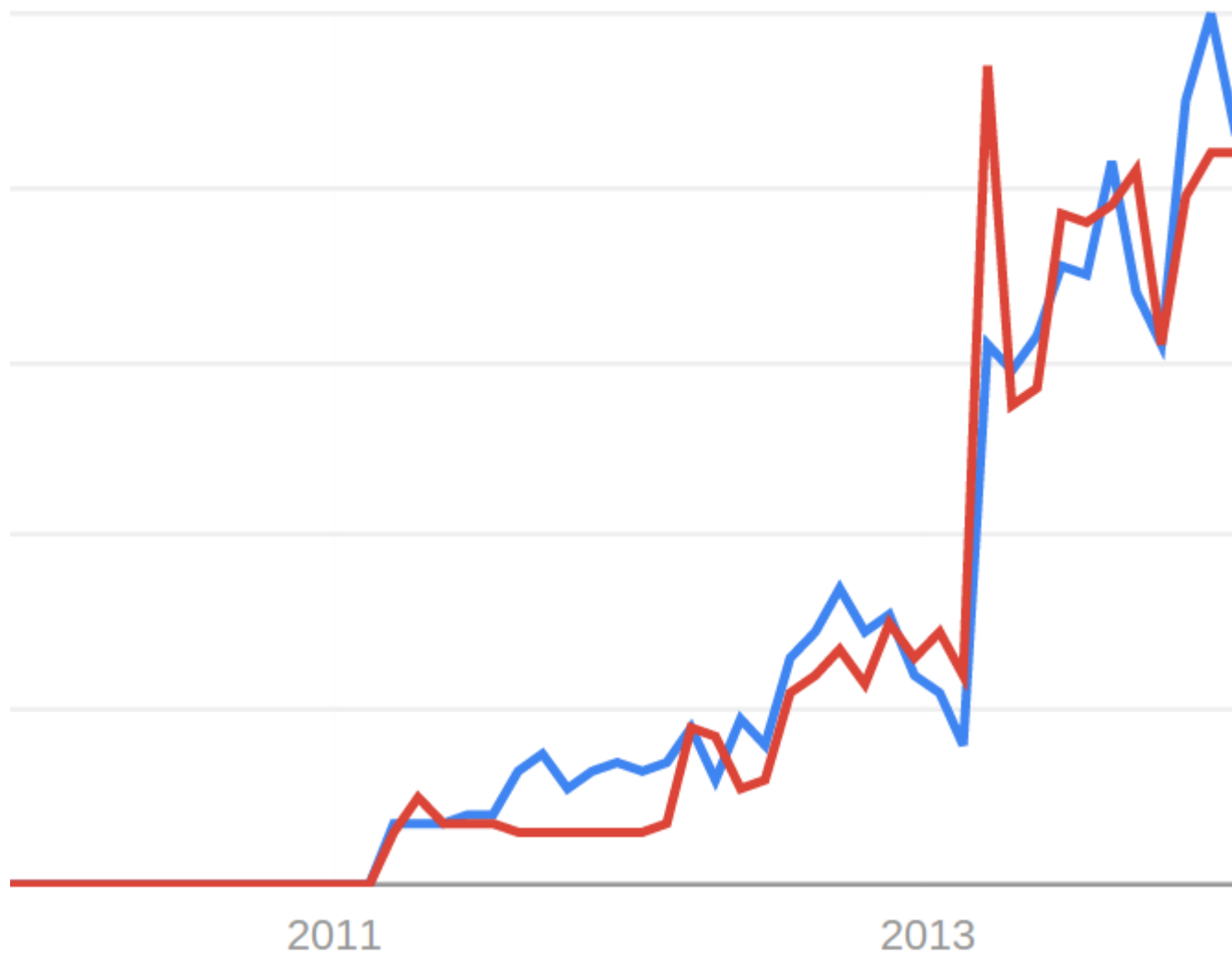
#360   Closed   [Fixed DashClock build \(with gradle!\). Improve formatting in Xabber description](#)

#359   Closed   [Added Gomoku and Oware games](#)

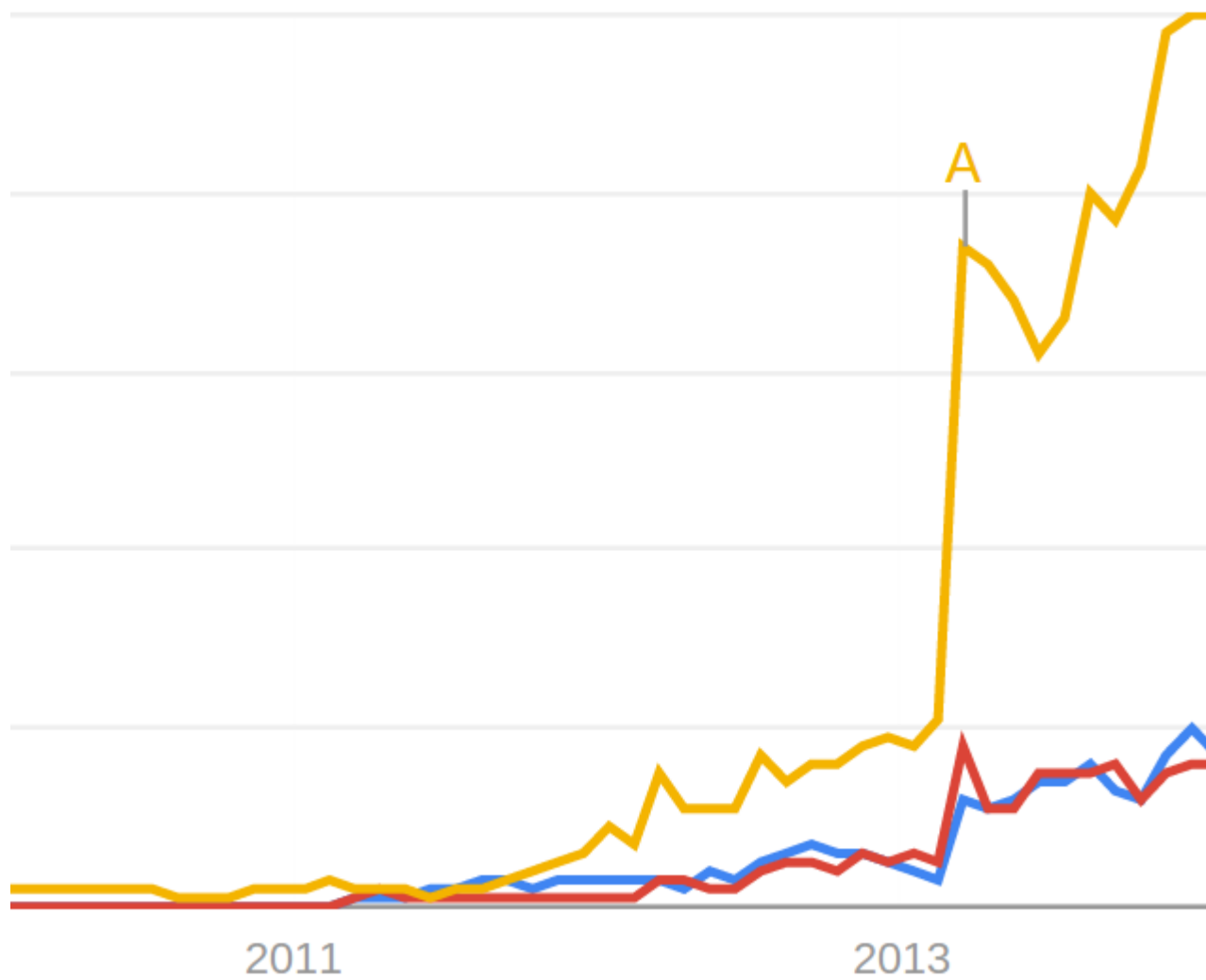
#357   Closed   [updated description](#)

#356   Closed   [Update OpenVPN to 0.6.5, added Changelog URL for DashClock](#)

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**February 2nd 2014**

990 apps



**February 2nd 2014**

990 apps

1150 commits in January



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990 apps

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Up to 13.6 million apk downloads



**February 2nd 2014**

990 apps

1150 commits in January

Up to 13.6 million apk downloads

Approximately 30-40 thousand users

0.55 (November 12th) downloaded 66,000 times

0.58 (January 11h) downloaded 38,000 times

Daniel Martí - [mvdan@mvdan.cc](mailto:mvdan@mvdan.cc)

#fdroid on freenode

[gitorious.org/f-droid](https://gitorious.org/f-droid)

