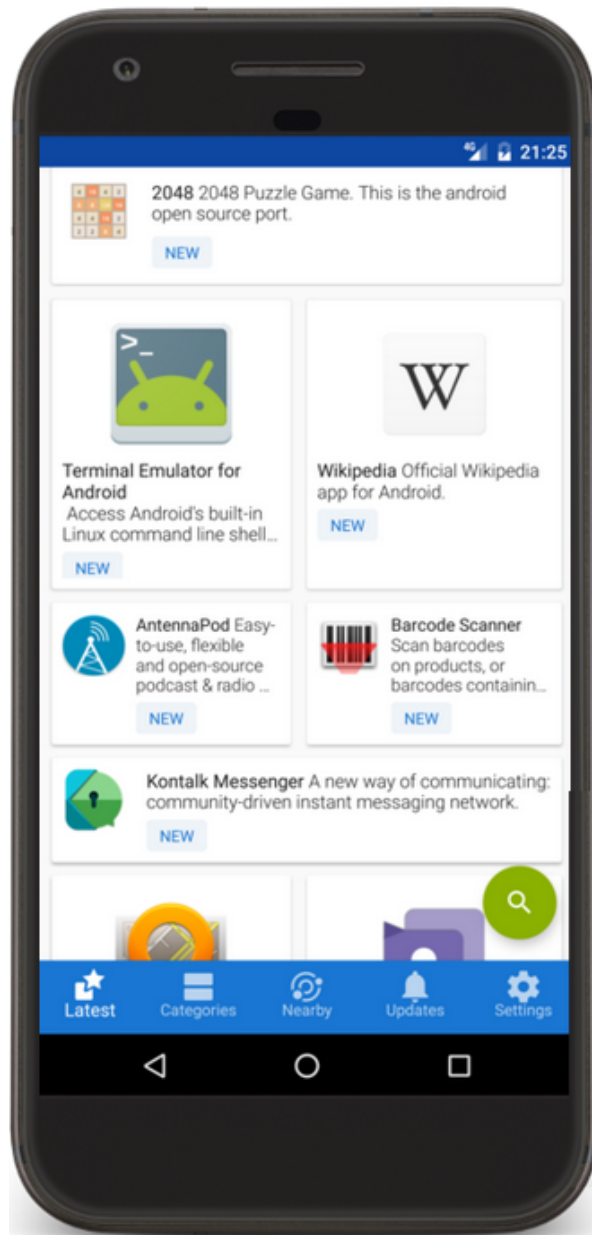# F-Droid

Marcus Hoffmann -- 13.02.2020

F-Droid

- F-Droid is an App Store
- F-Droid is an installable catalogue of FOSS applications for the Android platform
- Modeled after Debian
- F-Droid is an App Store Toolkit

F-Droid

Mastercom Workbook
View school marks, documents and topics

English ⌄

New in version 3.2

Bugs fixed:
- Make subject activity layout scrollable, to fix problems arising when the keyboard is opened or on small/landscape screens.
- In statistics activity fix "NaN" shown as average when no subject has a valid average in the current term.

This is an unofficial client for the Mastercom Workbook, a tool for school students.

Features:

- Login support for many schools.

- Subjects: calculates averages and needed marks, creates graphs and shows topics.

- Marks: shows all marks in a list or in a graph, and calculates the overall average.

- Documents: find and download documents.

▶ **This app has features you may not like.**

Find Apps

🔍 [   ] **SEARCH**

Last Updated

Easer
Event-driven Android automation

Easer (beta)
User-defined explicit automation for Android

openHAB Beta
Vendor and technology agnostic open source home automation

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How does F-Droid work?

Adding a New App

Request for Packaging (rfp): https://gitlab.com/fdroid/rfp

Checking for:

- Inclusion Criteria
  - nonfree Depencencies
  - License compatibility
  - Is the app compatible with the values of F-Droid
- Antifeatures

Working with upstream to include screenshots, changelogs, etc.

Adding an app (cont.)

Writing a build recipe/metadata file.

- most apps are easy to build
- some are incredibly hard :-(
- often there are small patches necessary to make it build within the F-Droid infrastructure, or remove nonfree dependencies

Metadata

```
$ cat metadata/org.schabi.newpipe.yml
AntiFeatures:
  - NonFreeNet
Categories:
  - Multimedia
  - Internet
License: GPL-3.0-or-later
AuthorName: Team NewPipe
AuthorEmail: tnp@schabi.org
WebSite: https://newpipe.schabi.org
SourceCode: https://github.com/TeamNewPipe/NewPipe
IssueTracker: https://github.com/TeamNewPipe/NewPipe/issues
Translation: https://hosted.weblate.org/projects/newpipe/
Changelog: https://github.com/TeamNewPipe/NewPipe/releases
LiberapayID: '34969'
Bitcoin: 16A9J59ahMRqkLSZjhYj33n9j3fMztFxnh

AutoName: NewPipe
Description: |-
    Lightweight YouTube frontend that's supposed to be used without
    the proprietary YouTube-API or any of Google's (proprietary)
    play-services. NewPipe only parses the YouTube website in order to
    gain the information it needs.
```

Metadata (cont.)

```
[...]
RepoType: git
Repo: https://github.com/TeamNewPipe/NewPipe

Builds:
  - versionName: 0.18.1
    versionCode: 810
    commit: v0.18.1
    subdir: app
    submodules: true
    gradle:
      - yes

  - versionName: 0.18.2
    versionCode: 820
    commit: v0.18.2
    subdir: app
    submodules: true
    gradle:
      - yes

AutoUpdateMode: Version v%v
UpdateCheckMode: Tags .*[0-9]$
CurrentVersion: 0.18.2
CurrentVersionCode: 820
```

How does F-Droid work?

Building

Builds are perfomed by fdroidserver tools A build cycle consists of:

- fdroid checkupdates - checks for new versions of an app and updates metadata
- fdroid build - builds an apk
- fdroid publish - signs an apk
- fdroid update - builds and signs the package index
- fdroid deploy - pushes verything out to the webservers

What's New

- Nearby Feature expanded
- Metadata converted to YAML
- Mirror Support
- Summaries of All Apps are now Localized
- 2 Apps were banned for their "content"
- Antifeature Icons

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Anti-Features

This app has features you may not like. Learn more!

This app promotes non-free network services

The upstream source code is not entirely Free

This app contains advertising

This app tracks and reports your activity

This app contains non-free assets

This app contains a known security vulnerability

The source code is no longer available, no updates possible

This app promotes non-free add-ons

This app depends on other non-free apps

Going Forward

- Expanding Reproducible Builds Support
    - Providing a Rebuilder Tool
    - Aggregating Reproducibility Status
- Tracking the Trackers Project
    - Using Machine Learning Technology to help Packagers
    - Improved fdroid scanner for detecting Tracking in Apps[1]
- OpenCollective, Funding, etc.
    - Looking into gaining more sustainable funding for F-Droid

[1]: https://f-droid.org/en/2020/01/16/tracking-the-trackers.html

Statistics

Since Jan 2019

- Repository grew by 316 apps

- Published 192 Index updates (avg. ~every 2 days)

- published 5662 apks (~14 apks per day)

- Currently 2086 apps in main

F-Droid-Data Commits

Number of Commits	User
5542	F-Droid Builder
939	Licaon_Kter
836	Izzy
687	relan
449	Pierre Rudloff
424	Marcus Hoffmann
351	Ciaran Gultnieks
237	Hans-Christoph Steiner
207	Michael Pöhn

Stats (continued)

Across the whole project:

- 1258 open issues
- 198 open merge requests
- 199 apps we know need updating…
- …

Help Wanted!

- Become a Maintainer: Adopt an App!
- Add screenshots, localized descriptions, what's new texts to upstream repos
- Help wth translations (In F-Droid or Upstream)
- Help with client development (especially UX)
- Help with website dev (ruby/jekyll)
- Help with Repomaker (Python Django App)

Talk to us

IRC: #fdroid / #fdroid-dev (freenode)

Matrix: #fdroid:f-droid.org / #fdroid-dev:f-droid.org

Mastodon: @fdroidorg@mastoton.technology

https://gitlab.com/fdroid

https://forum.f-droid.org