

FOSS Applications for Android

JDLL 2025

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Root Commit

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Embedded Linux consultant and trainer

- <https://rootcommit.com/about/michael-opdenacker/>
- Former founder of Bootlin
- New founder of Root Commit
- Offering embedded Linux training courses with a focus on practical activities, interactivity and learning techniques.
<https://rootcommit.com/training/>
- Free Software enthusiast and advocate
(member of April.org)



Introduction

- Google play doesn't help finding such Free Software applications
- Though Android is based on Free Software components
- Google's interests are elsewhere...
- Also an opportunity to do some research, improve and rethink my own **digital hygiene**.
- Share my experience and promote

- Bought a Fairphone 5, 5 years of warranty, 8 years of software updates!
- Installed Murena's /e/OS on it (also available pre-installed).
- Started looking for FOSS alternatives to my usual apps



Image source: <https://murena.com/products/smartphones/>

Introduction

Android distributions

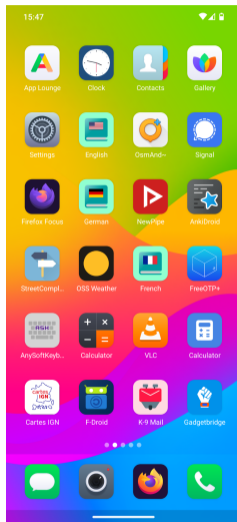
- Easiest approach (recommended for beginners)
Use the version of Android as installed on your phone.
- Progressively improve your digital hygiene by switching to FOSS apps
- When you are ready, remove proprietary ones you no longer use

Android



- Primary focus: privacy: block trackers, fake geolocation, fake IP (TOR)...
- Second focus on Free Software: most apps are FOSS.
- A fork of LineageOS, based on the Android Open Source Project (AOSP)
<https://lineageos.org/>
- Google free: forces you to do without the main Google apps (Maps, etc).
However, 99.9% of the apps work without any trouble, including banking ones.
- Murena offers its own Cloud services instead of Google's.
You can use your own too (such as Nextcloud), as in stock Android.
- Supports 220 devices as of May 2025: <https://doc.e.foundation/devices>
- Can also buy pre-configured phones:
<https://murena.com/products/smartphones/>

<https://e.foundation/e-os/>

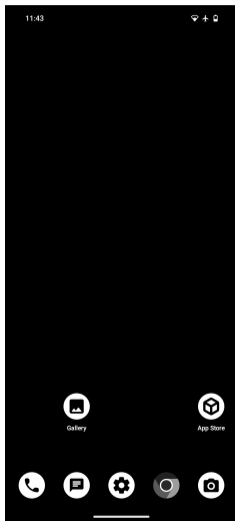


The advanced solution for going further
Must have for people who need strong security

- /e/OS is privacy focused, but does do the extra mile for security
- GrapheneOS has a much stronger focus on security
<https://grapheneos.org/features>
- For example: able to deny applications access to the network
(not available in /e/OS)
- Google free too, even without MicroG (emulation layer used in /e/OS/ and others). Google Play available as a sandboxed application.
- Unfortunately, only supported on very specific phones: Google Pixel

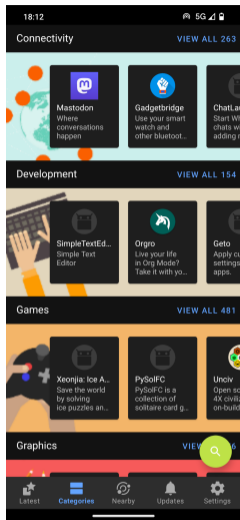
♥ An independent community project, with lots of documentation

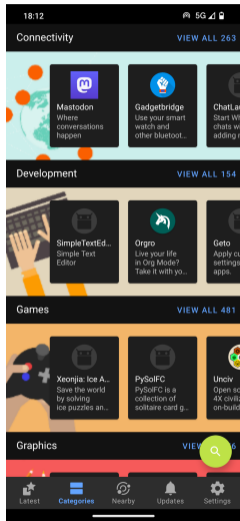
<https://grapheneos.org/>



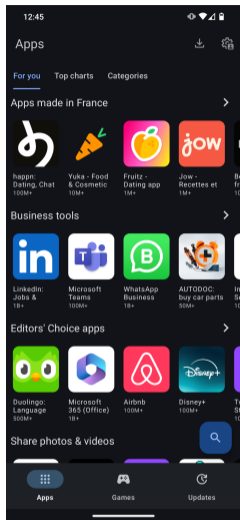
Introduction

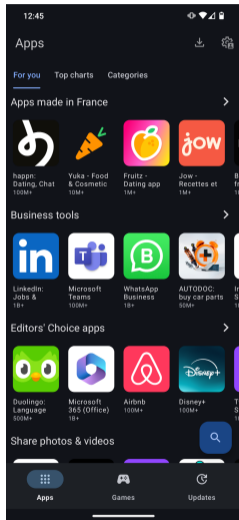
Freedom friendly application stores



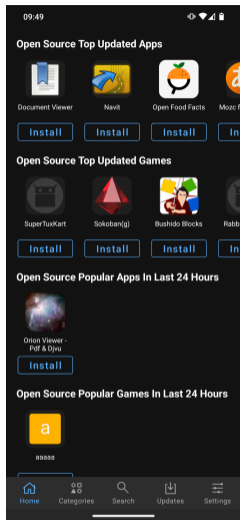


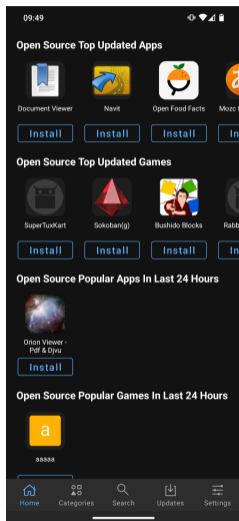
- The best catalog of FOSS applications, a great way to discover new ones.
Not available in Google Play: need to download and install it as an APK file.
- Gives you access to more apps not found on Google Play.
- Store: APK file to download and install
- <https://f-droid.org/>





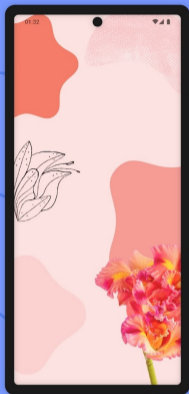
- An alternative to Google Play, working even if you don't have Google services.
- Particularly useful in a Google free phone (LineageOS...) to get some proprietary apps you can't do without (bank, etc.)
- Unlike in Google Play, downloads applications anonymously.
- Stores: F-Droid or APK file
- <https://aurorastore.org/>



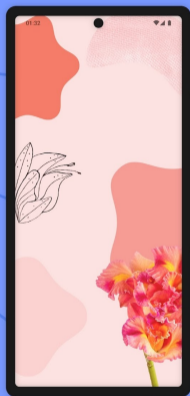


- The application store from /e/OS.
- Provides anonymous access to applications in Google Play (anonymously) and F-Droid.
- Unlike Google Play, advertises the FOSS apps
- Also shows a privacy score based on trackers.
- More convenient to update applications than in Google Play and F-Droid
- Intermittent performance or networking issues though
- Store: preinstalled on /e/OS
- https://doc.e.foundation/support-topics/app_lounge

Interface applications



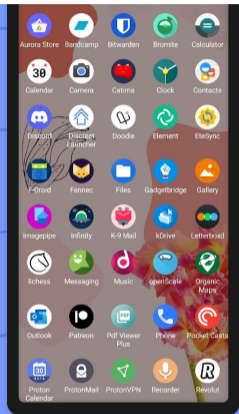
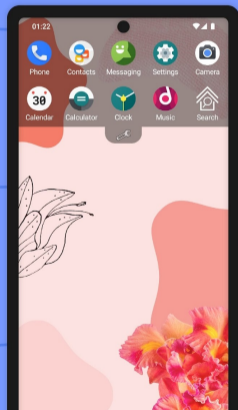
Enjoy a clean home screen,
while accessing everything in an instant!



Enjoy a clean home screen,
while accessing everything in an instant!

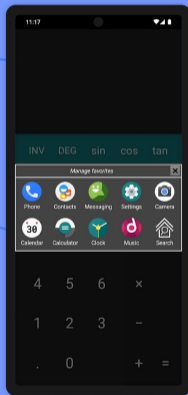
- Improvement on the standard Android Launcher
- Adds several convenient features (search, app settings, favorites...)
- Cleaner home screen
- Stores: F-Droid, Google Play
- <https://vincent-falzon.com/>

Quick access to your favorite applications...
(swipe down)



...or to any other application!
(swipe up)

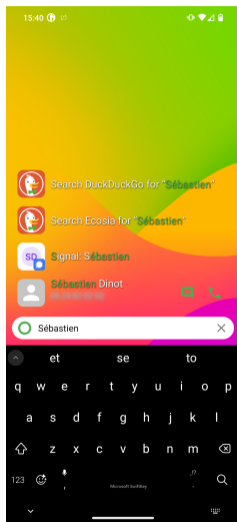
Access favorites from anywhere,
thanks to the notification!



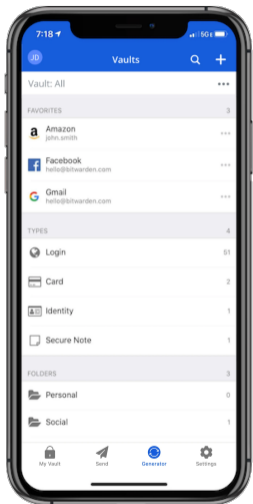


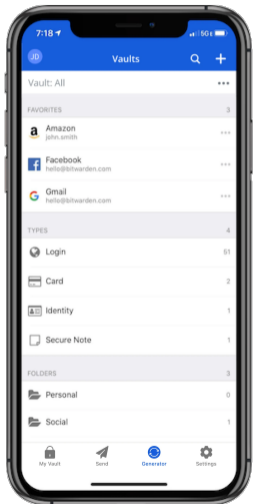


- My new Android launcher, adopted very quickly
- Unclogs your screen, shows most recent applications and actions (calls...)
- Much faster to look for applications (need to remember their names) and contacts
- Manually set favorites bar
- Stores: F-Droid, Google Play
- <https://kisslauncher.com/>

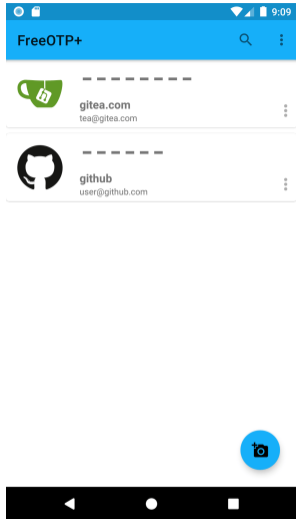


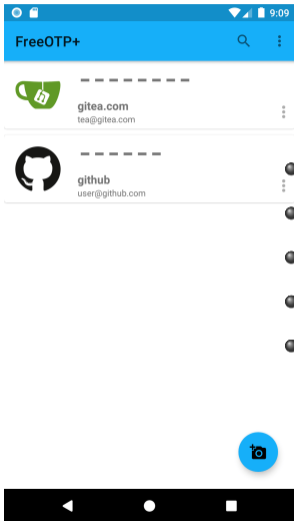
Security





- Password manager application
- Allows to have stronger passwords, and never show them on screen
- Synchronized between phone, desktop and browser extension.
- Unlock it by passphrase or fingerprint scanner.
- Can use Bitwarden's (FOSS) server for free or deploy your own.
- Encrypted data cannot be decrypted by the server.
- Additional features if a subscriber: authenticator app, attach files (10 USD/year)
- Caution: make sure you configure it to clear the clipboard quickly (10 seconds?). Set it on the desktop app too.
- Make the password manager the "Autofill" app. More secure.
- Store: Google Play
- <https://bitwarden.com/>



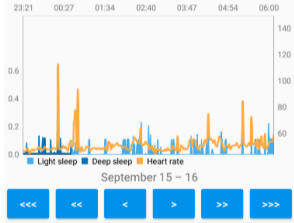
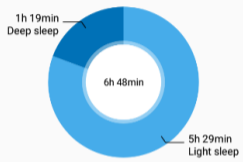


- FOSS authenticator app (Two Factor Authentication)
- Always worked as a replacement for Google's or Microsoft's.
- Must have for security (SMS vulnerable to SIM card attacks)
- Stores: F-Droid, Google Play
- <https://f-droid.org/en/packages/org.liberty.android.freeotpplus/>

- PrivacyIDEA
 - Can be used with the PrivacyIDEA server (also FOSS) deploy company/organization wide 2FA authentication.
 - <https://www.privacyidea.org/>
- Yubico Authenticator
 - Generate OATH codes with YubiKey NEO over NFC
 - <https://developers.yubico.com/yubioath-flutter/>

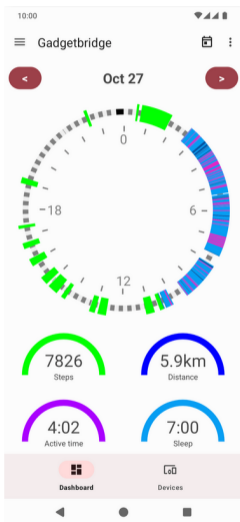
Fitness

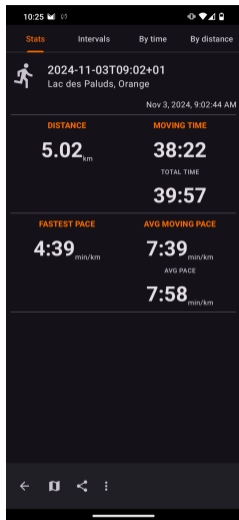
You slept from 23:21 to 06:08





- FOSS application to pair and manage smart watches, bands and headphones without needing the vendor application (and cloud!).
- Much better for privacy!
- May 2025: 335 gadgets are already well supported (vs 150 in Nov. 2024)
- The project can help you to add support for your gadget.
- Store: F-Droid
- <https://gadgetbridge.org/>







- *Sport tracking application that completely respects your privacy*
- Can replace applications storing activity data on the cloud (Strava, Garmin...)
- Can work bluetooth sensors (heart rate...)
- Allows to make interesting places (photos, markers) while tracking
- Can be used fully off-line
- Store: F-Droid (caution: different app on Google Play)
- <https://opentracksapp.com/>



- OpenStreetMap display of your OpenTracks activities
- Works offline too (predownloaded maps)
- Tip: can't use it standalone.
Call it from OpenTracks (press the map button in an activity)
- Store: F-Droid
- <https://f-droid.org/packages/de.storchp.opentracks.osmplugin/>


Navigation

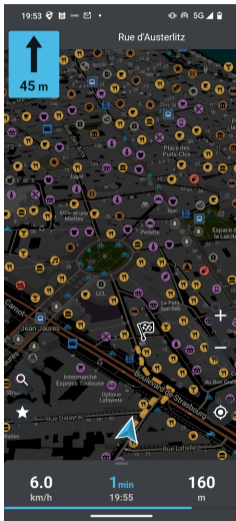
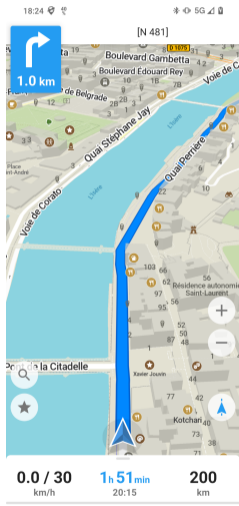


- *Offline maps and navigation*
- Used it for 4 weeks in the USA for 99% of my navigation needs (car and pedestrian)
- Offline functionality was also critical to find some trails and stay on them
- At the beginning, was overwhelmed by the amount of information on the screen. Useful to tweak settings to hide some map elements.
- Main drawback: missing live traffic information
- Several flavors:
 - OsmAnd (Google Play): free but limited to 7 map downloads
 - OsmAnd+ / Map+ (Google Play): one time purchase (39.99 EUR/USD)
 - OsmAnd~ (F-Droid): unlimited maps, F-Droid recompilation
- <https://osmand.net/>





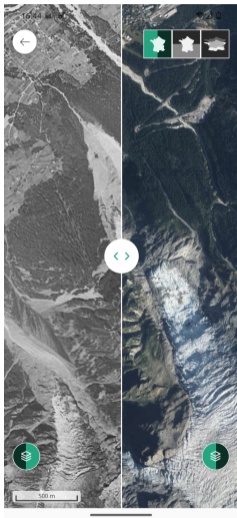
- *Offline Hike, Bike, Trails and Navigation*
- Also based on OpenStreetMap
- Found it after taking the OsmAnd learning curve.
More user friendly. Better to get started with this app.
- Also missing live traffic information
- Stores: F-Droid, Google Play
-  May 2025: CoMaps fork (<https://www.comaps.app/>)
because of governance issues
- <https://organicmaps.app/>

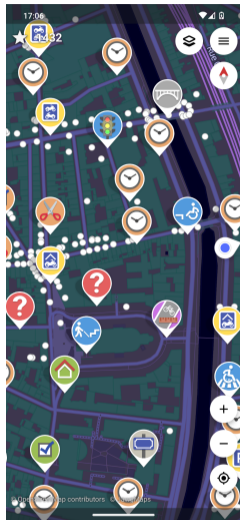


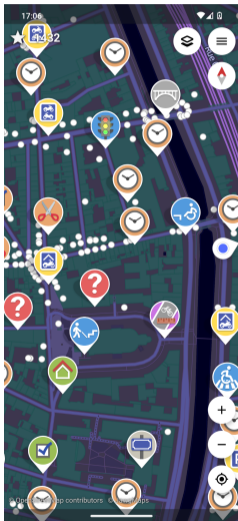




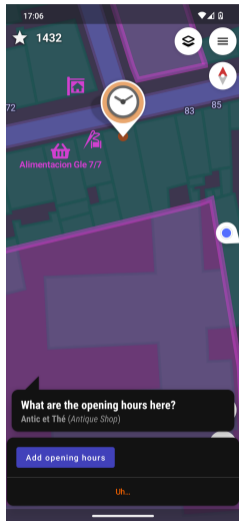
- Open-sourced (GPLv3) in 2024, from the French Institut Géographique National
- Covers only France
- Several features: navigation, map data analysis, comparison with historic data
- Depends on non-free servers, but data are open
- Stores: F-Droid, Google Play
- <https://www.ign.fr/telechargez-application-cartographique-cartes-ign>





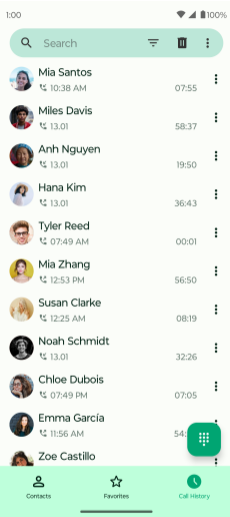


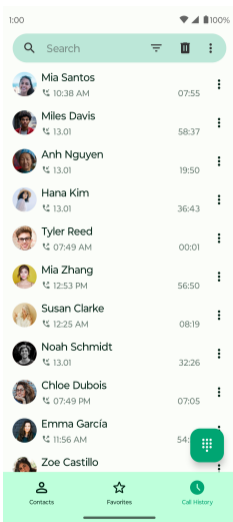
- Complete and update OpenStreetMap data around you
- Very fun to do, and even addictive
- Stores: F-Droid, Google Play
- <https://streetcomplete.app/>



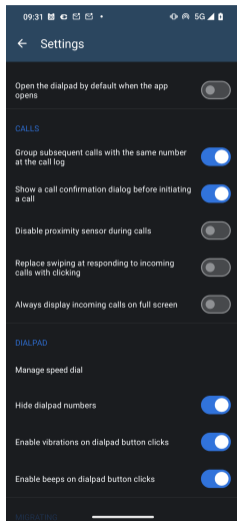
- It can sometimes take up to 15 minutes to get a GPS fix on Google-free systems.
 - That's because we don't want or can't use Google's SUPL servers, for privacy reasons
 - See *OpenAGPS - Open source GNSS Assistance* talk at FOSDEM 2025
<https://fosdem.org/2025/schedule/event/fosdem-2025-6739-openagps-open-source-gnss-assistance/>
- Navigating with public transportation doesn't look easy. I struggled in Vienna find a streetcar on the map! And I can't have Google Maps (degooglized phone).
- Your experience?

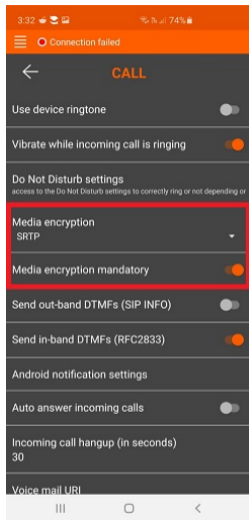
Communication

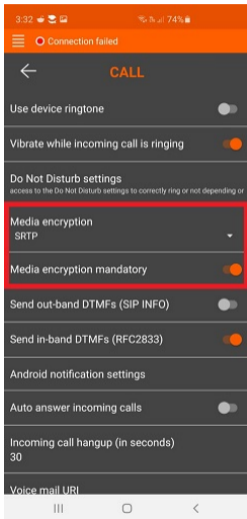





- Replacement for the stock Android app
- Offers more settings, like confirming before making a call
- Supposed to focus on privacy
- Stores: F-Droid, Google Play
- <https://www.fossify.org/>

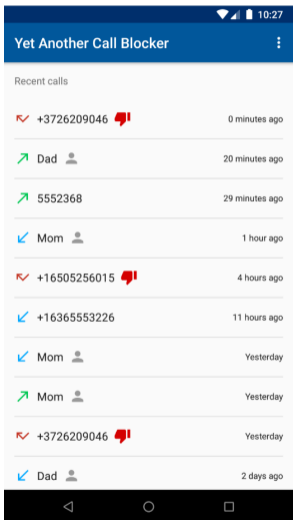




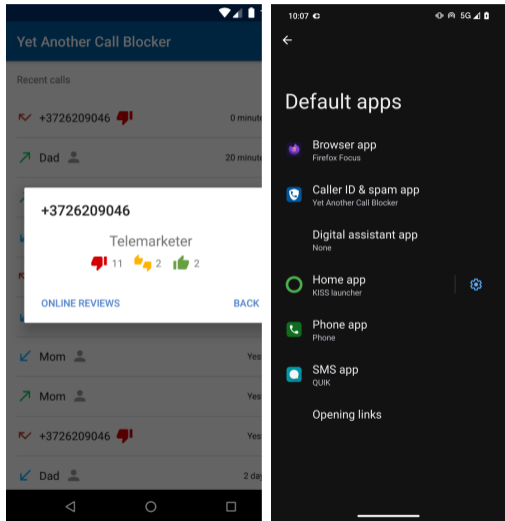


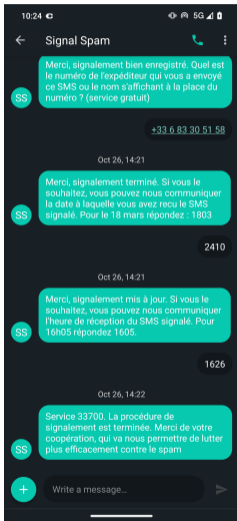
Free Software SIP client

- From Belledonne Communications 
- Using it to replace a physical SIP phone
- High quality, multi-participant audio and video calls
- Stores: F-Droid, Google Play
- <https://www.linphone.org/en/homepage-linphone/>

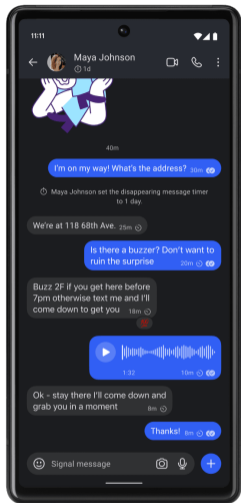


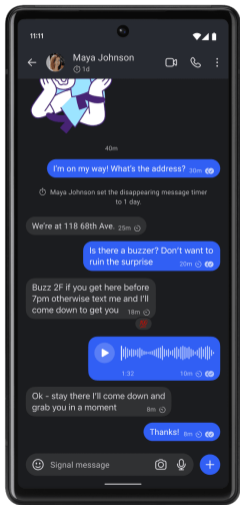
- Helps to block unwanted calls
- However, depends on a proprietary database fetched from a Gitlab repository (last updated 3 years ago!)
- Also manages local block lists
- But better than letting a proprietary app access your calls and contacts.
- Make sure you set it as default "Caller ID and spam app"
- Didn't seem to work properly the only time I got an unwanted call.
- Any better solution?
- Stores: F-Droid
- <https://gitlab.com/xynngh/YetAnotherCallBlocker>





- A fork of the stock Android app? Very similar settings and features
- Adds more color to your phone though.
- Stores: F-Droid, Google Play
- <https://github.com/octoshrimpy/quik>

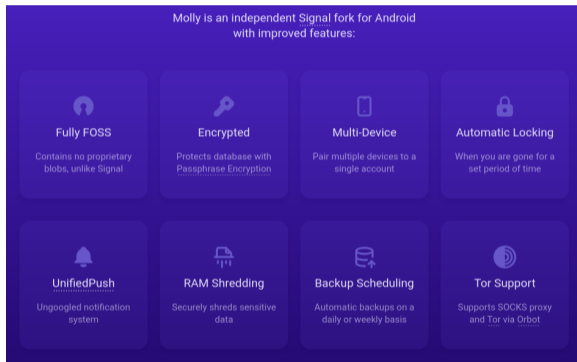


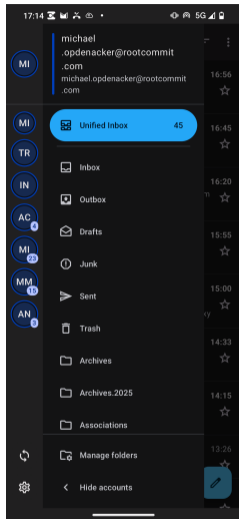


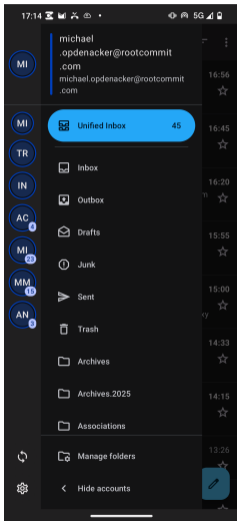
- Very well known now
- Privacy protecting and FOSS alternative to WhatsApp
- Unlike on WhatsApp, the server cannot decrypt the messages
- Unlike Telegram, both the server and clients are FOSS
- Has all the features you need: messages, calls, video
- No need to share your phone number any more
- Downside: maybe FOSS, but its owners only allow their own clients on their network. You can't run a modified version.
- Store: Google Play (only)
- <https://signal.org/>



- Signal on Android still contains some Google proprietary blobs
- Molly adds additional hardened features
- Two flavors: Molly and Molly-FOSS
- Broken on F-Droid?
- <https://github.com/mollyim/mollyim-android>

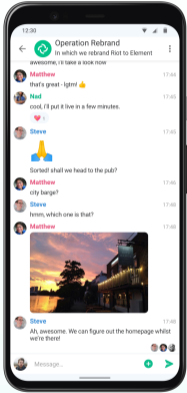




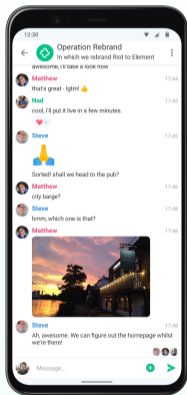


- Replacement for the K-9 mail app (<https://k9mail.app/>, still maintained)
- Supports multiple accounts and most useful features
- Very easy to set up if you're already using Thunderbird on the desktop (settings shared through a QR code)
- Stores: F-Droid, Google Play
- <https://www.thunderbird.net/en-US/mobile/>

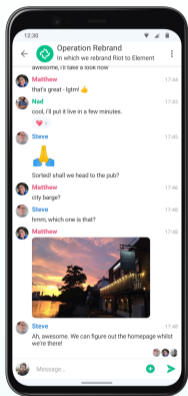
Get stuff done.
Securely.



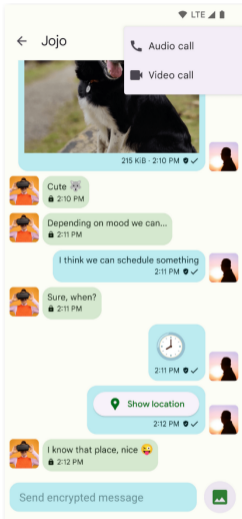
Get stuff done.
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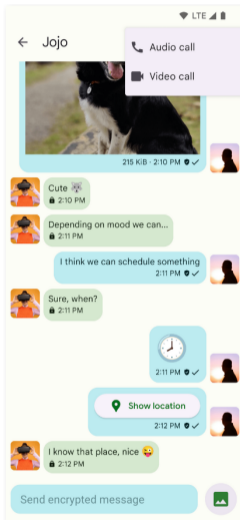


Get stuff done.
Securely.



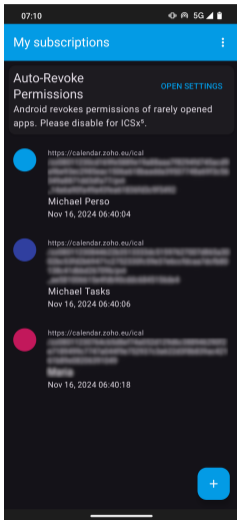
- Client for a Matrix server, primarily for messaging, but also for video calls
- Used it for 3 years without any major issue.
- Stores: F-Droid and Google Play
- <https://element.io/>





- Encrypted, easy-to-use XMPP instant messenger for your mobile device
- Relying on existing, well established protocols
- Also support audio and video calls
- Servers are interconnected. You can use the server of your choice, and no phone number is necessary.
- Claims it has a very low impact on battery life.
- Good desktop client if you are addicted: Gajim
- Stores: F-Droid and Google Play
- <https://conversations.im/>

Time management



- Application to fetch remote iCal calendars
- Store: F-Droid
- <https://f-droid.org/en/packages/at.bitfire.icsdroid/>



- You can then see the calendars in Android's stock calendar app

Web browsing

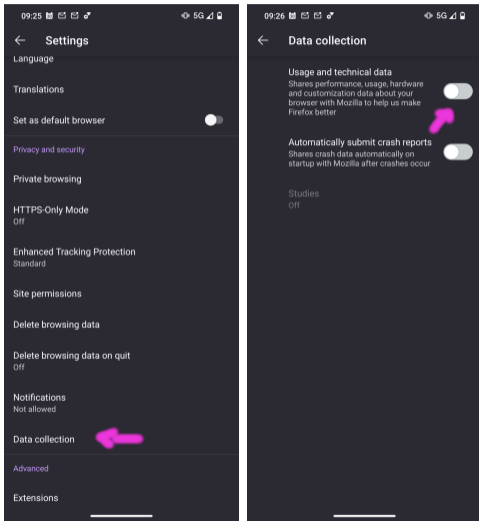


- Privacy oriented browser connecting directly to Tor
- Better than VPNs!
- Blocks trackers: each website is accessed in isolation. Cookies automatically removed when you are done browsing.
- /e/OS privacy rating: 7/10
- Stores: Murena's App Lounge at least, custom APK download
- <https://rhatto.pages.torproject.net/tpo/download/>





- The well known browser from Mozilla, focusing on privacy protection
- Better than Google Chrome, which also protects your data from attackers, but not from Google.
- For example, Chrome doesn't disable third party cookies (thanks Benjamin Bellamy!)
- However, Firefox contains a few proprietary bits (mostly connecting to Mozilla)
- /e/OS privacy rating: 6/10
- Store: Google Play
- <https://www.mozilla.org/en-US/firefox/>



- The main reason why Firefox is not in F-Droid (replaced by Fenec)
- By default, Firefox tracks how you use this browser, to "help improve performance and stability"
- You can disable this telemetry though.
- <https://support.mozilla.org/en-US/kb/telemetry-clientid>



- Firefox tuned for privacy control
- More tunables are also available
- You can disable telemetry too ("Send usage data")
- /e/OS privacy rating: 6/10
- Store: Google Play
- <https://www.mozilla.org/en-US/firefox/browsers/mobile/focus/>



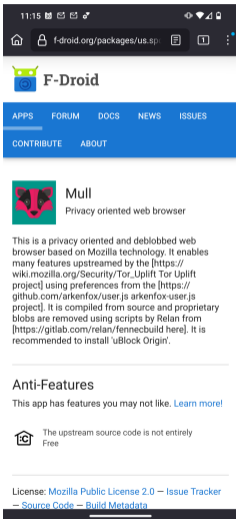
Fennec F-Droid

Browse the web

- Wide collection of addons, including ad blockers.
- Improved tracking protection.
- Private mode available in a single tap.
- Customizable start screen layout and navigation bar position (top or bottom).
- Dark theme.
- Collections of tabs.
- Synchronization of tabs, bookmarks, passwords, etc. across multiple devices via Firefox Sync.
- Picture-in-picture mode.

Fennec F-Droid is based on the latest Mozilla Firefox release. It has proprietary bits and telemetry removed, but still connects to various Mozilla services that can track users.

- F-Droid rebuild of Firefox, but with telemetry and proprietary bits removed
- But still connects to various Mozilla services that can track users
- /e/OS privacy rating: 7/10
- Store: F-Droid
- https://f-droid.org/packages/org.mozilla.fennec_fdroid/




11:15 11:15 11:15

f-droid.org/packages/us.sp

F-Droid

APPS FORUM DOCS NEWS ISSUES

CONTRIBUTE ABOUT




Mull

Privacy oriented web browser

This is a privacy oriented and deobfuscated web browser based on Mozilla technology. It enables many features upstreamed by the [https://wiki.mozilla.org/Security/Tor_Uplift_Tor_Uplift project] using preferences from the [https://github.com/arkenfox/user.js arkenfox-user.js project]. It is compiled from source and proprietary blobs are removed using scripts by Relan from [https://gitlab.com/relan/fennecbuild here]. It is recommended to install 'uBlock Origin'.

Anti-Features

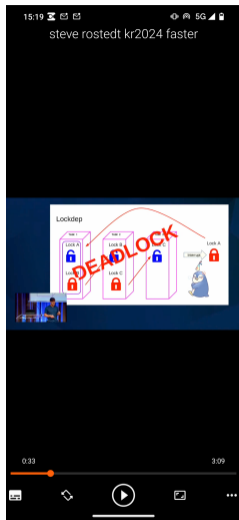
This app has features you may not like. [Learn more!](#)

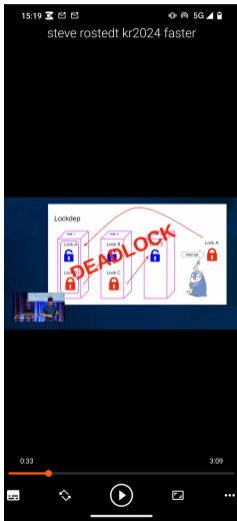
 The upstream source code is not entirely Free

License: [Mozilla Public License 2.0](#) – [Issue Tracker](#) – [Source Code](#) – [Build Metadata](#)

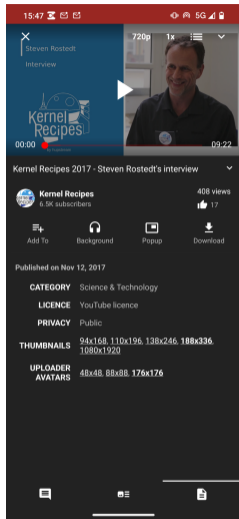
- Another F-Droid rebuild of Firefox, with telemetry and proprietary bits removed
- Supposed to be configured with stricter privacy settings
- Can be seen as a "Focus" equivalent to Fennec.
- /e/OS privacy rating: 7/10
- Store: F-Droid
- https://f-droid.org/packages/org.mozilla.fennec_fdroid/

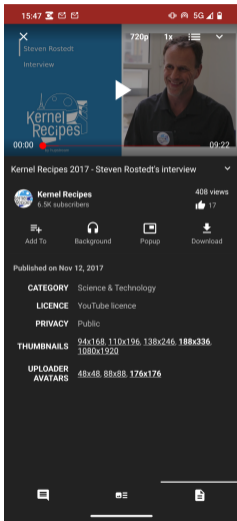
Multimedia



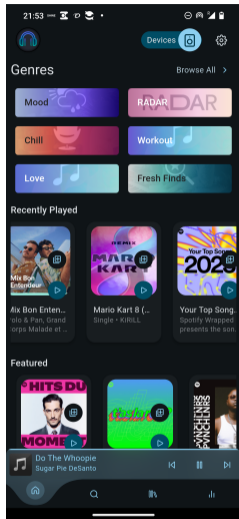


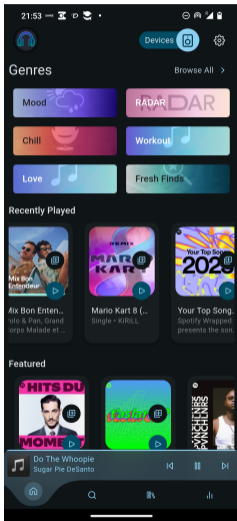
- Best known video player, supporting most codecs
- Stores: F-Droid, Google Play
- <https://www.videolan.org/vlc/download-android.html>



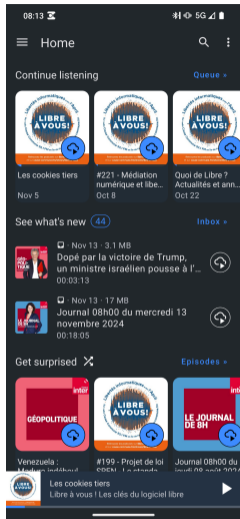


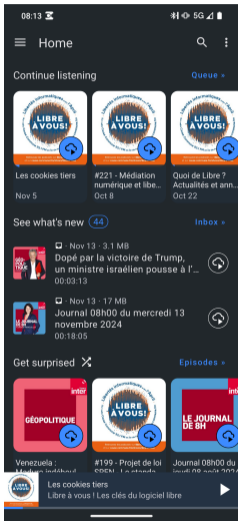
- Watch YouTube videos with an intuitive, feature-rich and privacy friendly app
- Can download videos offline, and "watch" them with the screen off
- No ads, anonymous usage of YouTube (not feeding Google's algorithm)
- Supports other platforms: PeerTube, Soundcloud, Bandcamp, media.cc.de
- Store: F-Droid (not Google Play! 🚫)
- <https://newpipe.net/>



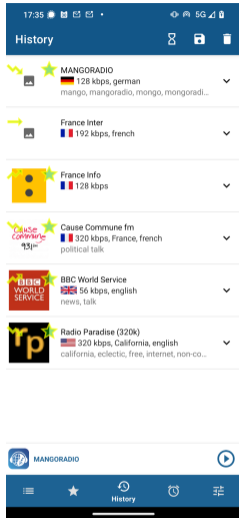


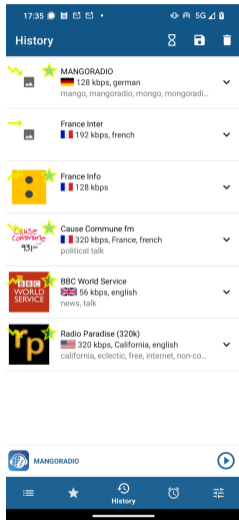
- *An Open Source Spotify client for every platform*
- Sleek interface, as pleasant as the regular proprietary client.
- Was initially using Spotify's public APIs for song data, and YouTube Music for audio. You could even access your Spotify playlists without a Spotify Premium subscription.
- May 2025: was banned from Spotify
- Future versions will *operate within the bounds of copyright law and platform policies*. Be patient...
- <https://spotube.krtirtho.dev/>





- FOSS Podcast player
- Created by volunteers without commercial interests
- ♥ One of my favorite programs!
- Stores: F-Droid, Google Play
- <https://antennapod.org/>



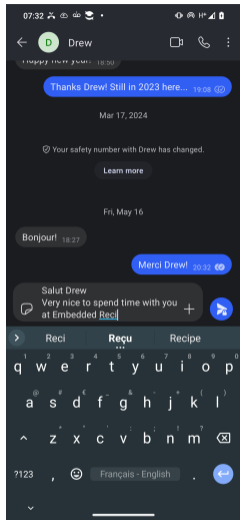


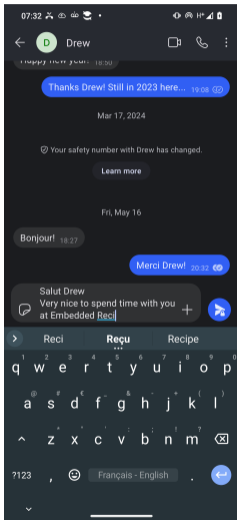
- Great to listen to radios available online, and discover new ones
- Radios can also be used as an alarm
- Project making it easy to add more radios to the database
- Stores: F-Droid
- <https://f-droid.org/packages/net.programmierecke.radiodroid2/>

Keyboards

Keyboards are quite critical applications

- They can record what you type, in particular user names and passwords
- You expect efficiency and ergonomics from them, to be productive with your device
- I switched to a proprietary one in 2019 — Swiftkey:
 - Multilingual (though limited to 5 active languages).
Great when you have friends speaking different languages.
 - Great word prediction, but tracking me?
 - But owned by Microsoft! (Rebranded as "Microsoft Swiftkey" in 2020)
 - But these features raise the bar to switch to something else
I felt miserable on all the alternatives I tried 🙄

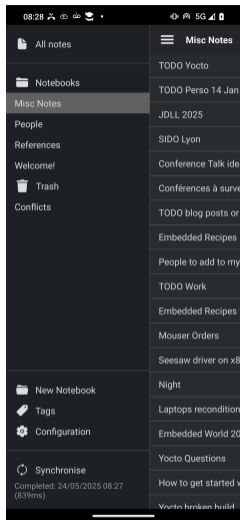


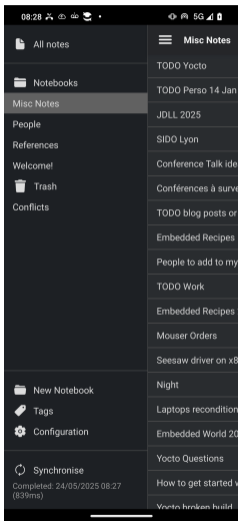


At last a free software keyboard that keeps me productive enough


- Based on AOSP / OpenBoard
- Good enough word prediction
- Multilingual, can even enable mixing two languages
- Ergonomic layout, easy access to all characters
- Secure: completely offline, doesn't need network permissions
- Stores: F-Droid
- <https://github.com/Helium314/HeliBoard>

Note and Task Management

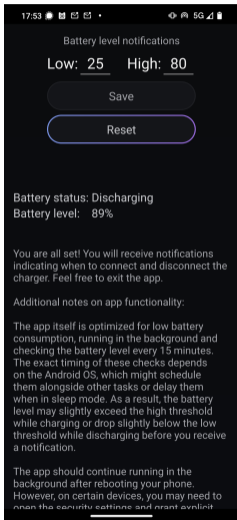




Free Software, advanced and multimedia note taking app

- Access your notes from any device: phone, desktop and even terminal!
- Multimedia notes are supported, even with Math formulas
- Multilingual, can even enable mixing two languages
- Can create notes in Markdown or Rich Text
- End-to-End encrypted
- Multiple solutions for the server:
 - Joplin Cloud: 3 EUR/month, supporting the  developers
 - Self or third party hosting with NextCloud
 - Proprietary: OneCloud, Dropbox 🤪
- Stores: F-Droid, Google Play
- <https://joplinapp.org/>

Device Management



- Helps to keep your battery with an optimum charge level
- In theory, better to keep Li-ion batteries between 20% and 80% charge levels
- You get a notification when you get out of the range.
- However, missing notifications when away from the phone
- Store: F-Droid
- <https://f-droid.org/packages/biz.binarysolutions.healthybatterycharging/>

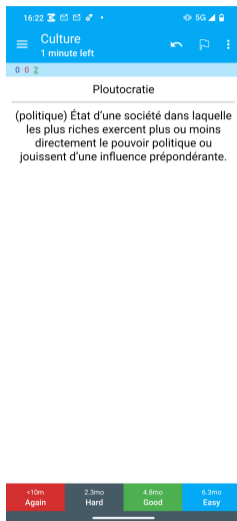
Learning



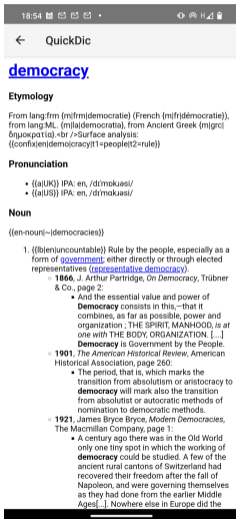
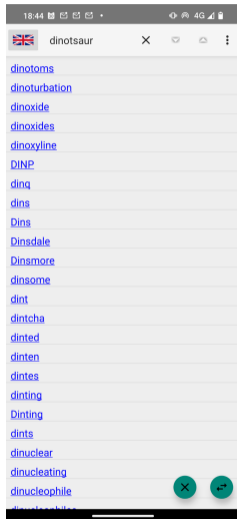
Ploutocratie

(politique) État d'une société dans laquelle les plus riches exercent plus ou moins directement le pouvoir politique ou jouissent d'une influence prépondérante.





- Flash card software using spaced repetition to remember what you learn.
- I have about 6,700 cards on all types of topics
- See my dedicated presentation.
- Loved by students and lifelong learners
- Using it both on the smartphone and desktop
- Ankiweb hosts your card decks for free (support them!)
- Stores: F-Droid, Google Play
- <https://apps.ankiweb.net/>



- Single language and bilingual dictionary from Wiktionary data
- Offline support: makes it easy to download the language packs of your choice.
- Formatting issues though. The free but proprietary dictionaries from "Livio" are much better. Their wiki to HTML engine is Apache 2 licensed though, and could be used in FOSS apps: <https://github.com/javalc6/wikiparser-java>.
- Fortunately, provides links to Wiktionary pages (when online)
- An application needing contributors to fix issues.
- Store: F-Droid
- <https://github.com/rdoeffinger/Dictionary>

Misc Applications

05:08

Sun, Journées du Logiciel Libre 2025

	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00
Conf 1 - Amphi Descartes		Logiciels Libres, Souveraineté	Comment concilier sobriété	Député-es, attrapez-les toustes !	Les Podcasts, Passeurs de Connaissances	Technopolice contre nos libertés	Projection de Share alike								
Conf 2 - D2.002		be-BOP - Solution de monétisation	Moteur d'inférences libre RefPerSys	Gérer une fichothèque avec le logiciel	Installer et utiliser Ubuntu en	PeerTube : ton YouTube maison... en	Mettre à jour 1000 serveurs en moins d'1	Comment protéger vos données à							
Conf 3 - D2.004		Le Cyber Resilience Act et votre	PeerTube : du défi technique à l'outil grand	Transformer un utilisateur en mainteneur.	Comment se réapproprié nos espaces	Logiciels libres et science ouverte	Les bienfaits de la dématérialisation et son	Présentation d'Ancestris							
Conf 4 - D2.018		JMAP : le protocole qui révolutionne le	Un BIOS entièrement libre avec GNU	Production de radio et de podcast libres	Numérisation de la société, ou l'automati	Les incitations à contribuer	Notre build quotidien. Comment	Pour arrêter la production des logiciels							
Conf 5 - D2.020		Colimag 2025 - Comment créer son	Open-sourcez par la force votre	Pourquoi le monde de demain	Le changement de nom	Les RAFLL : Égaut, Différents,	Présentation de l'Observatoire	Hiboo : l'authentifi							
Conf 6 - D2.024		Le speedrun, une culture	YunoHost, par quelle route en	Yiotta, un outil	Open Minds, n'essayez	Libérez votre téléphone.	Pourquoi l'utiliser avec								

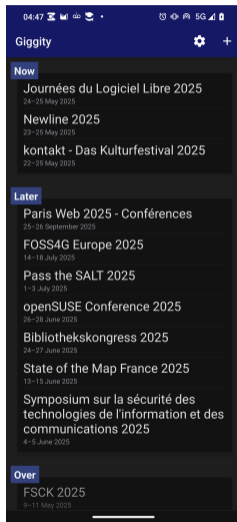


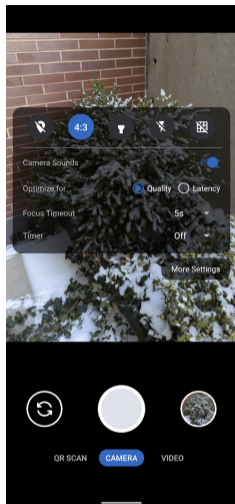
The screenshot shows a mobile application interface for a conference schedule. The title is 'Sun, Journées du Logiciel Libre 2025'. The interface is a grid with time slots on the top and conference sessions on the left. The time slots range from 11:00 to 18:00 in 30-minute increments. The sessions are listed in a grid format, with some cells containing text and others being empty or partially obscured.

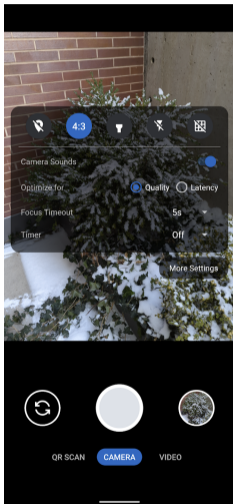
	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00
Conf 1 - Amphidescartes	Logiciels Libres, Souveraineté	Comment concilier sobriété	Députés-es, attrapez-les toustes !	Les Podcasts, Passeurs de Connaissances	Technopolice contre nos libertés	Projection de Share alike									
Conf 2 - D2.002	be-BOP - Solution de monétisation	Moteur d'inférences libre RefPerSys	Gérer une fichothèque avec le logiciel	Installer et utiliser Ubuntu en	PeerTube : ton YouTube maison... en	Mettre à jour 1000 serveurs en moins d'1	Comment protéger vos données à								
Conf 3 - D2.004	Le Cyber Resilience Act et votre	PeerTube : du défi technique à l'outil grand	Transformer un utilisateur en mainteneur	Comment se réapproprier nos espaces	Logiciels libres et science ouverte	Les bienfaits de la démocratisation et son	Présentation d'Ancestris								
Conf 4 - D2.018	JMAP : le protocole qui révolutionne le	Un BIOS entièrement libre avec GNU	Production de radio et de podcast libres	Numérisation de la société, ou l'automati	Les incitations à contribuer	Notre build quotidien. Comment	Pour arrêter la production des logiciels								
Conf 5 - D2.020	Colsmag 2025 - Comment créer son	Open-sourcez par la force votre	Pourquoi le monde de demain	Le changement de nom	Les RAFLL : Egaux, Différents,	Présentation de l'Observatoire	Hilboo : l'au thentifi								
Conf 6 - D2.034	Le speedrun, une culture	YunoHost, par quelle culture	Viotta, un outil commun pour	Open Minds, prest	Libérez votre téléphone	Pourquoi l'utile une									

- Your companion for conferences like this one, festivals... publishing their schedule in an open format
- Also helps to make a selection
- You receive notifications when it's time to go to an event
- Stores: F-Droid, Google Play
- <https://wilmer.gaa.st/main.php/giggity.html>

- Your events are already displayed on the front page!
- Can reveal events you missed or are about to miss

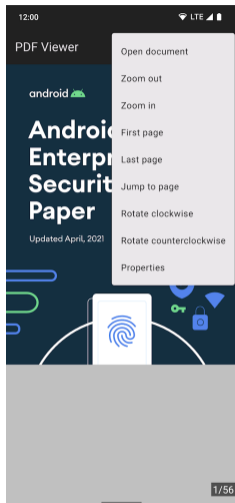






Contributed by the GrapheneOS project

- Alternative to Android camera app with security and privacy features
- Strips EXIF metadata by default except orientation
- Has its own in-app gallery (not accessed by other apps)
- Store: Google Play
- <https://github.com/GrapheneOS/Camera>





Contributed by the GrapheneOS project

- Because PDFs are usually attack vectors
- Application that runs without any permissions
- Open PDF documents in hardened and sandboxed environment
- Store: Google Play
- <https://github.com/GrapheneOS/PdfViewer>





- Client to the Mastodon decentralized social network
- To stay in touch with your "network", without feeding AI or giving away details about you.
- Installed it to replace LinkedIn and use Mastodon first
- Store: F-Droid, Google Play
- <https://joinmastodon.org/apps>

Another Reason for Using Mastodon

Beautiful welcome screen

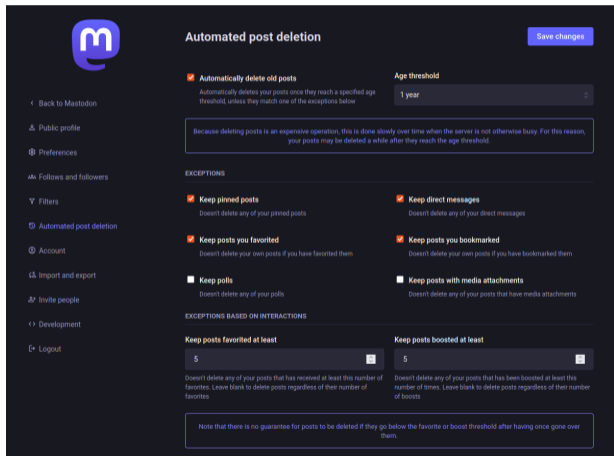


Another Reason for Using Mastodon

Beautiful welcome screen



You can ask Mastodon to remove your old posts



- Binary Eye — Barcode reader
- Termux — Terminal and shell
- scrcpy — Use your phone on your Linux screen

Closing thoughts

- Now using a password manager (Bitwarden) and stronger passwords. No longer typing passwords.
- Now using the KISS launcher. I can't get back!
- Podcasts: replacing Spotify by AntennaPod
- E-mail and calendar: replaced Zoho Mail by Thunderbird and ICSx5
- Navigation: moved from Waze to OsmAnd and then Organic Maps
- Replaced Simplenote (from Automattic but proprietary server) by Joplin
- Using Giggity for events

- Replaced the LinkedIn app by Mastodon
- Removed the Radio France app (worst number of privacy leaks). Using RadioDroid instead.
- Replaced Orange Phone app by Yet Another Call Blocker and Fossify Phone.
- Replaced Microsoft SwiftKey by HeliBoard
- Removed Garmin Connect. Now using OpenTracks, though I'm missing all the health data for the moment.

- Especially for proprietary apps (train companies, banks, social media...)
- People here doing this systematically?

- Reliable navigation through public transportation.
- Gadgetbridge support for my Garmin watch.
- Good FOSS offline dictionaries based on Wiktionary
- Should elaborate on servers (like Nextcloud) for self-hosting one's data.

- To people who answered my questions and shared their favorites:
Leszek Grzanska, Werner Fischer, Yann B., Sébastien Dinot, Philip-Dylan Gleonec, Jean-Martin Haran, Benoît Taine, Luca Ceresoli, Mikkel Kirkgaard Nielsen, Cornelius Kölbl, Christophe Blaess, Julien Stephan, René Dubois, Jérôme Herbinet, Mike Oberti.
- To the maintainers of F-Droid and its contributors.

- mo@rootcommit.com
- XMPP: omichael@conversations.im
- Signal: rootcommit.01

- Slides available under the CC-By-SA 4.0 license
<https://rootcommit.com/pub/conferences/2025/jd11/foss-apps-android/>
- Sources (L^AT_EX):
<https://gitlab.com/rootcommit/foss-apps-android/>