



***NewPipe***

**CHRISTIAN SCHABESBERGER**

Schabi

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



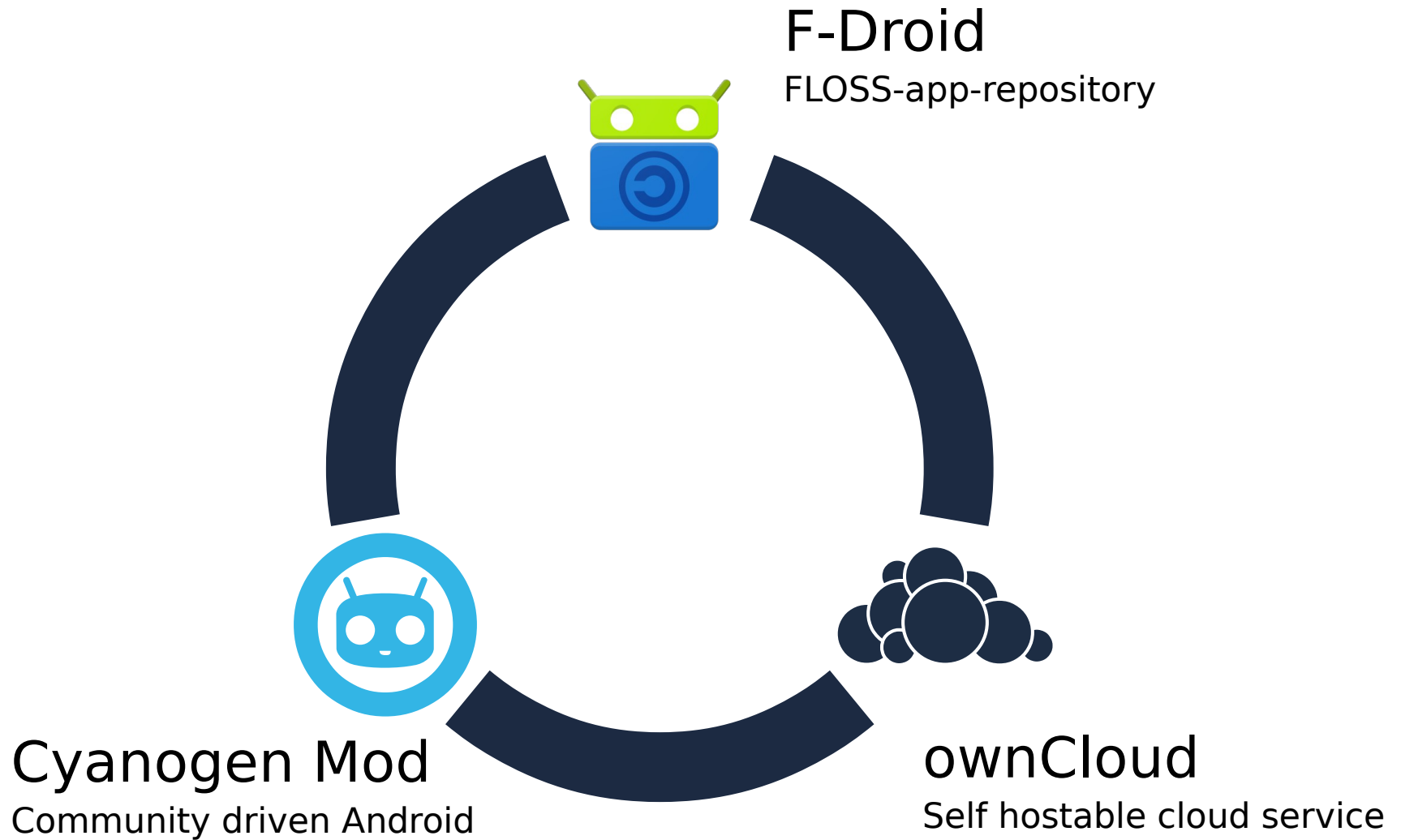
- 1. Background**
- 2. How it Works**
- 3. The Future**
- 4. How can I Help**
- 5. Q & A**



# Background



# Google free Android



# Google free Android



**Raccoon**  
PlayStore client

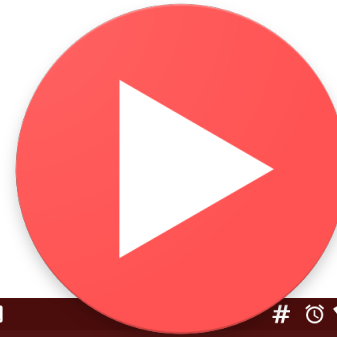
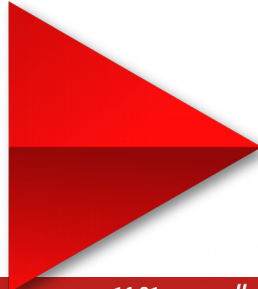


**microG**  
Play-Services replacement



**NewPipe**  
Youtube client

# NewPipe



The screenshot displays the NewPipe application interface. At the top, there are status bar icons and the time 16:31. The main content area is divided into three sections:

- Left Panel (Video List):** A list of videos from the 'Chimperator Channel'. The top video is 'SAM - Wach auf (Official Video)' with 18K views. Below it are 'Teesy - Wünschdirwas Tour Teaser (ft. Lot)' (2K views) and 'Maeckes - Festival Blog Teil 3 Splash Festival' (2K views).
- Center Panel (Video Player):** A video player showing 'Die Orsons - Papa Willi und der Zeitgeist (Official Version)'. The video has 1,315,312 views and 389 likes. The player interface includes a 'WebM 360p' resolution selector, a play button, and a download icon.
- Right Panel (Download Menu):** A red 'Herunterladen' (Download) menu is open, showing options for 'Dateiname' (Filename) set to '257ers\_Holz\_Official\_HD\_Vid', 'Video' (unselected) and 'Audio' (selected) formats, and 'Threads' set to 3.

At the bottom, there is a navigation bar with standard Android icons (back, home, recent apps) and a red bar containing the NewPipe logo and the text 'NewPipe'.

# YouTube Alternatives

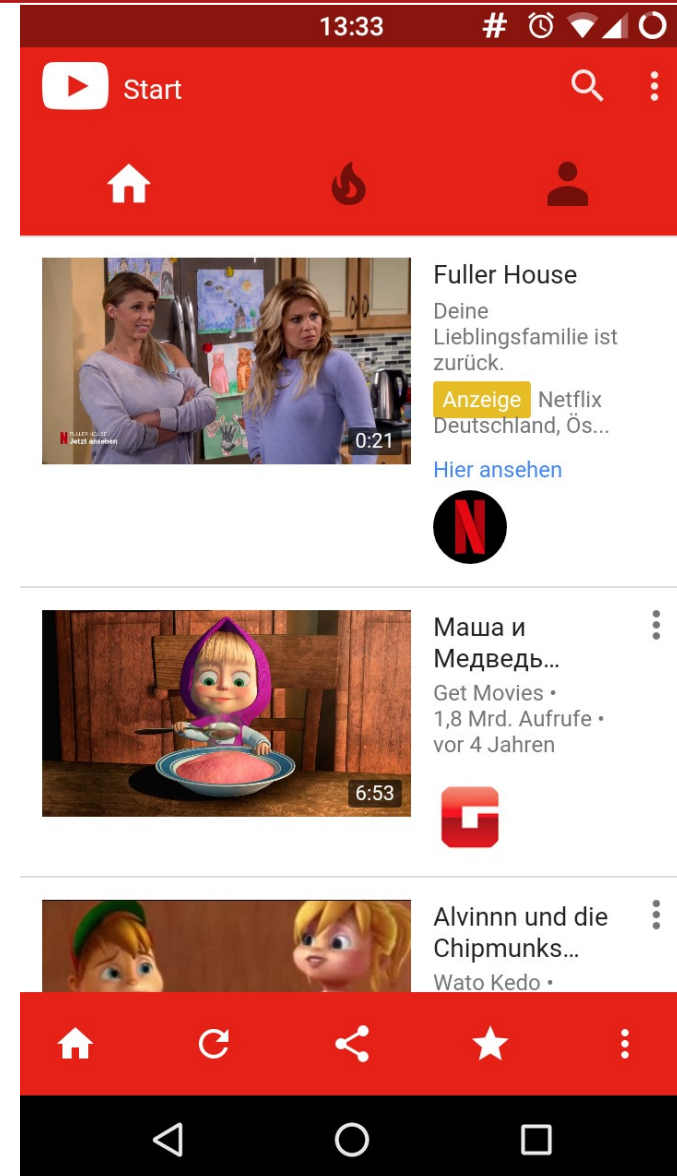


# YouTube alternatives



## WebTube

- Website Wrapper
- Full functionality of the Youtube website
- Extra functions for imitating NewPipe
- Download via keepvid.com
- Watch in background/audio only

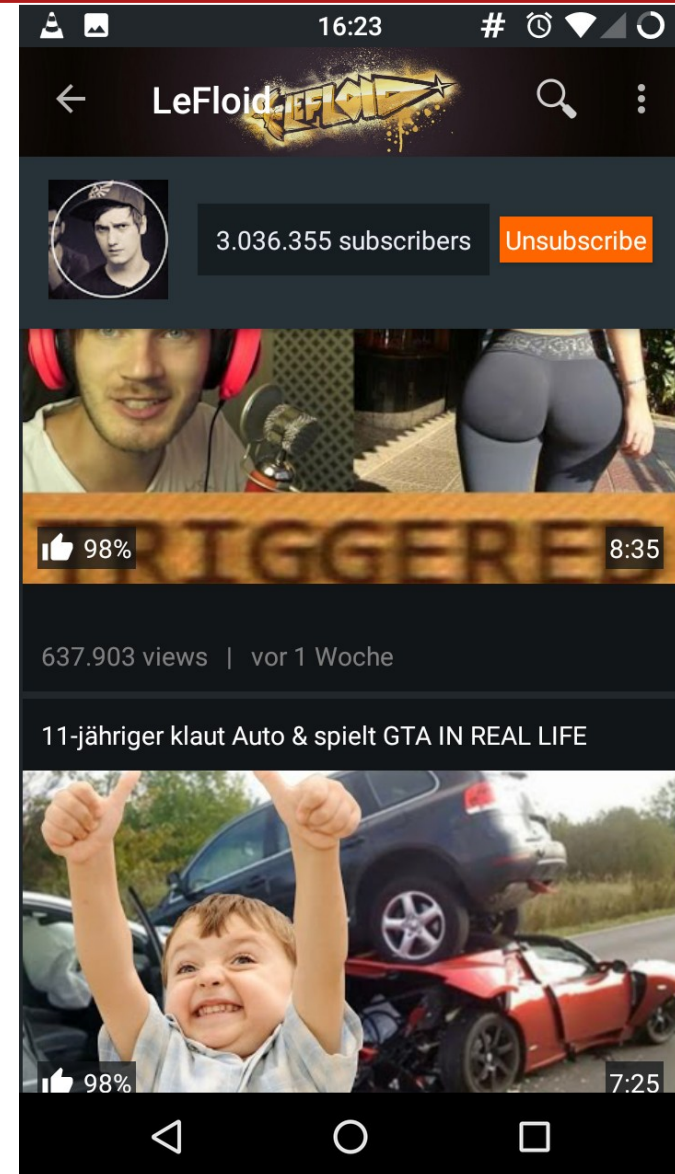




# YouTube alternatives



- REST app
- Rich functionality
- Restricted to Google AGB
- Support for commends



# YouTube alternatives



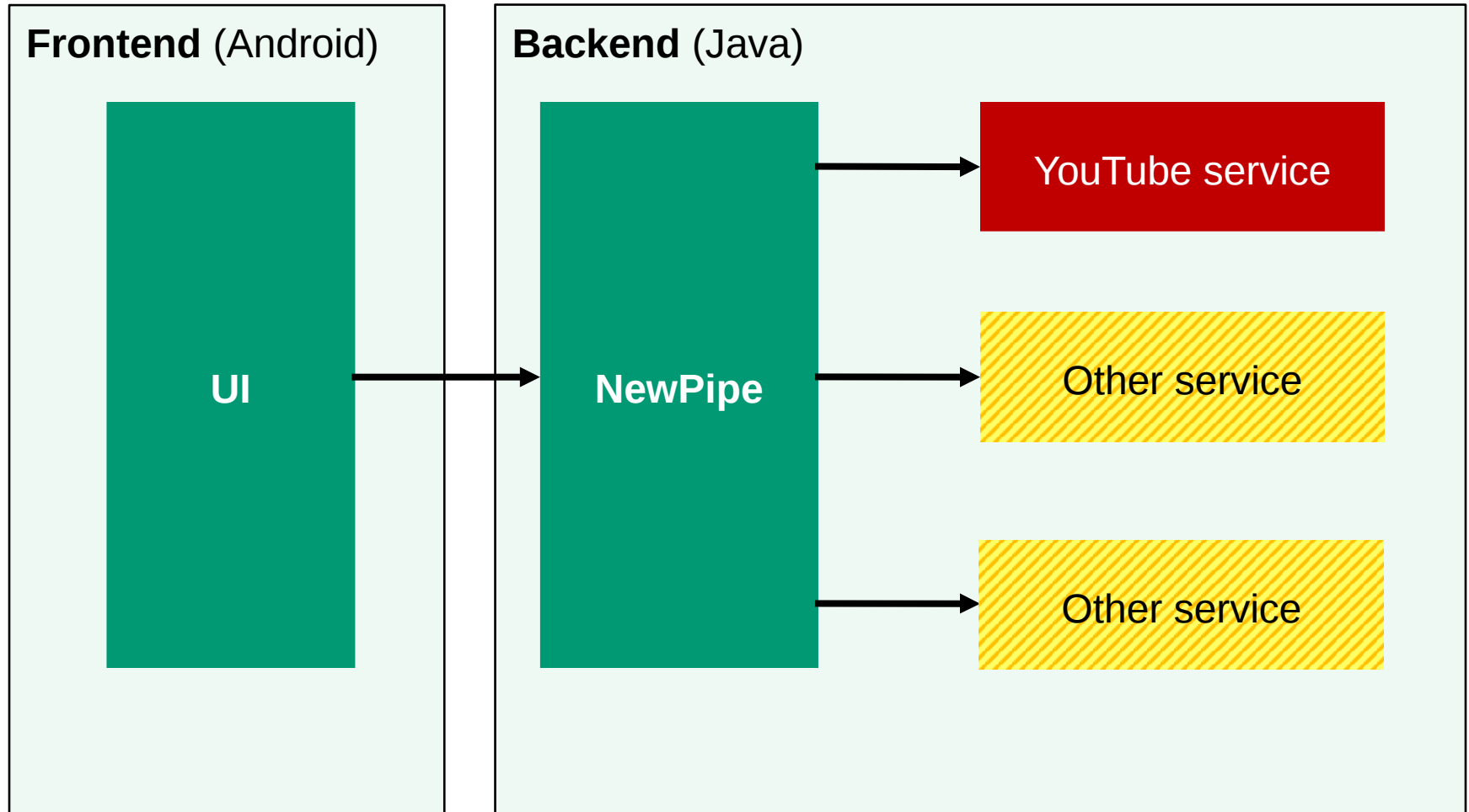
## NewPipe

- Website crawler
- Not restricted to Google AGB
- Download Video/Audio
- Stream audio only
- No adds
- Not feature complete
- Unsteable

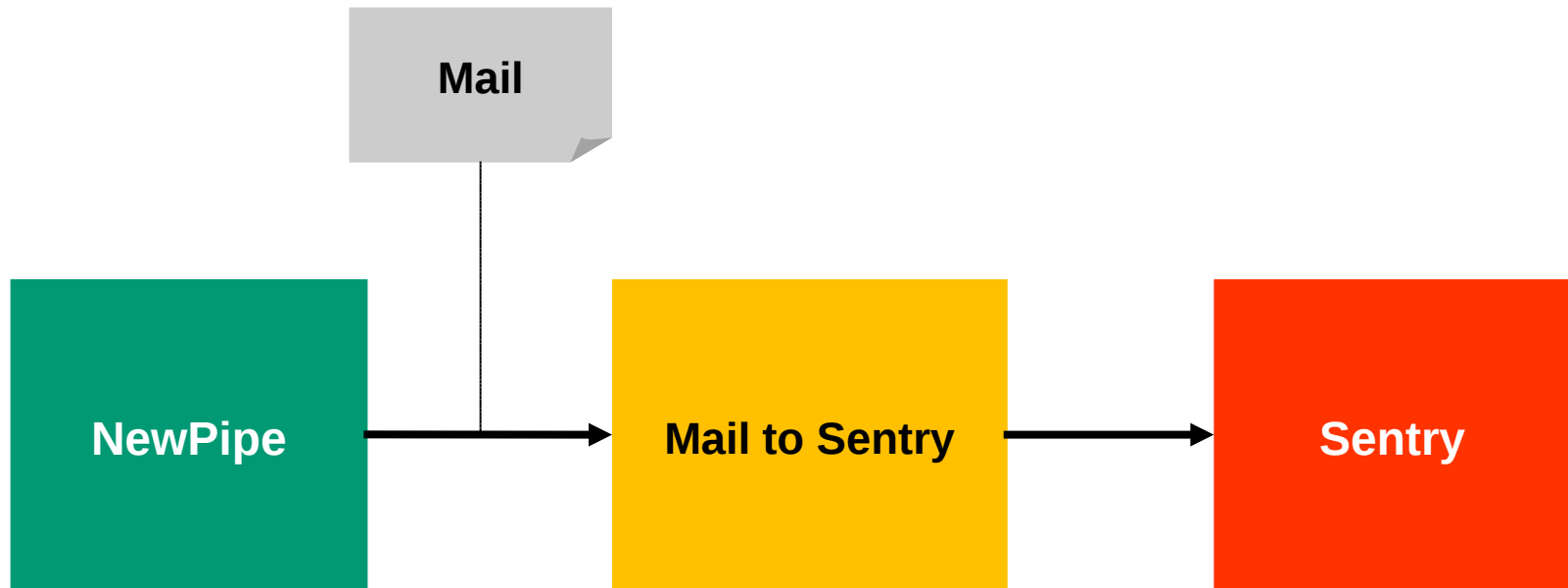


# How it Works

# General Architecture



# Bugreport Architecture





## Unresolved Issues ▾

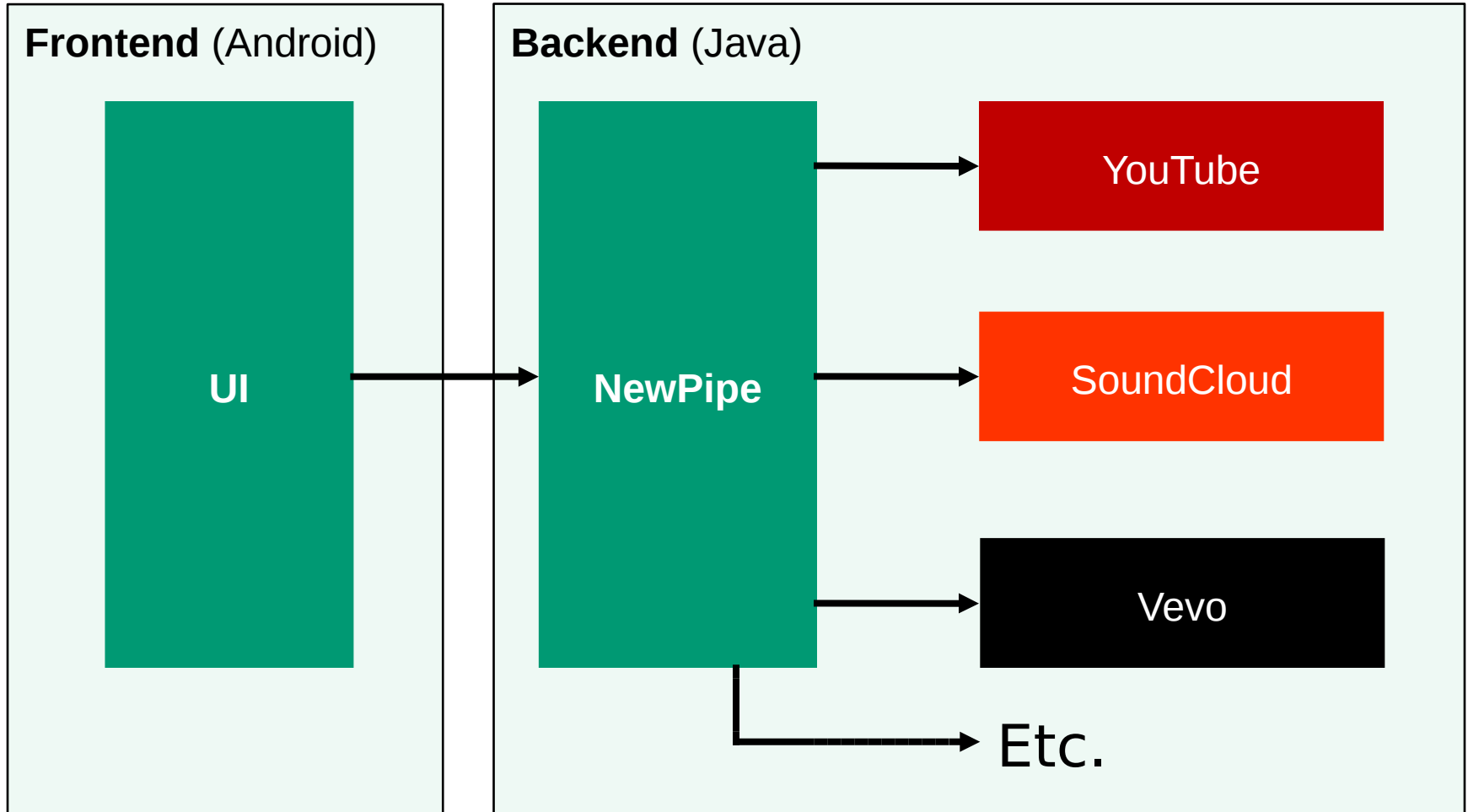
Sort by: Last Seen ▾    🔍 is:unresolved    ⌕    ⇄

			GRAPH:	24H	14D	EVENTS	USERS
<b>Error</b>	<b>java.lang.NullPointerException</b> Thread.java in run ⌚ a day ago – 4 months old	👤 ▾	-----			432	0
<b>Error</b>	<b>com.nadatec.videodown.extractor.ParsingException: Could not get next video</b> YoutubeStreamExtractor.java in getRelatedVideos ⌚ 2 days ago – 4 months old	👤 ▾	-----			169	0
<b>Error</b>	<b>&lt;unlabeled event&gt;</b> ⌚ 2 days ago – 5 months old	👤 ▾	-----			1.8k	0
<b>Error</b>	<b>com.nadatec.videodown.extractor.Parser\$RegexException: failed to find pattern "[?&amp;]v=(["</b> Thread.java in run ⌚ 2 days ago – a month old	👤 ▾	-----			106	0
<b>Error</b>	<b>java.lang.NullPointerException</b> dalvik.system.NativeStart in main ⌚ 2 days ago – a month old	👤 ▾	-----			43	0
<b>Error</b>	<b>com.mosdev.tubemp3.extractor.Parser\$RegexException: failed to find pattern "[?&amp;]v=(["</b> Thread.java in run	👤 ▾	-----			32	0

# Future Goals

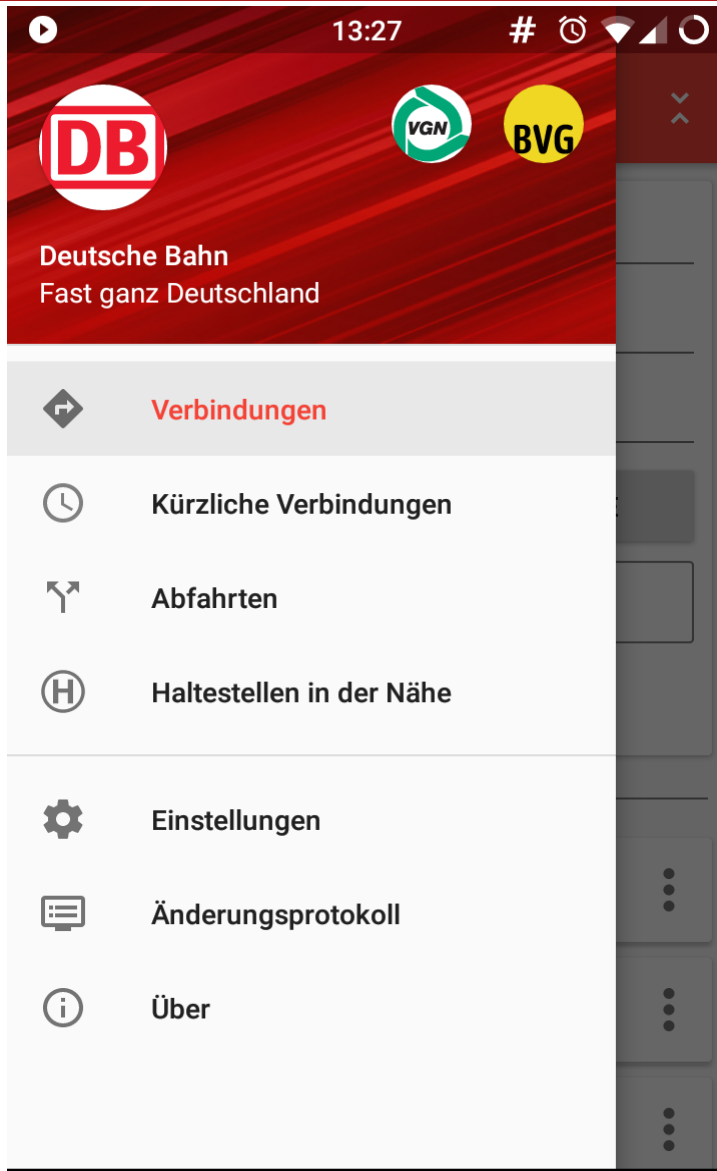


# Multiple Services



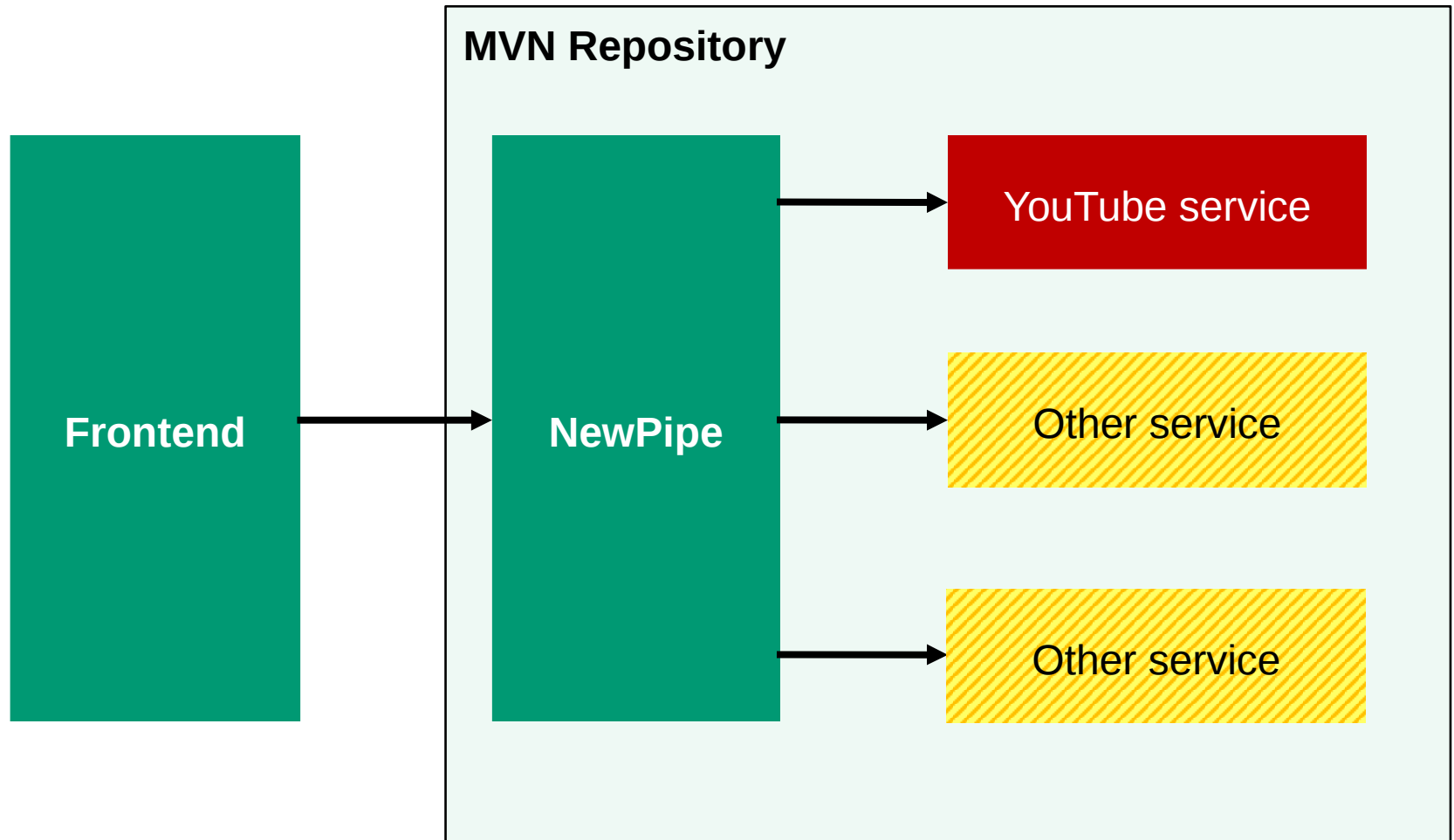


# Multiple Services

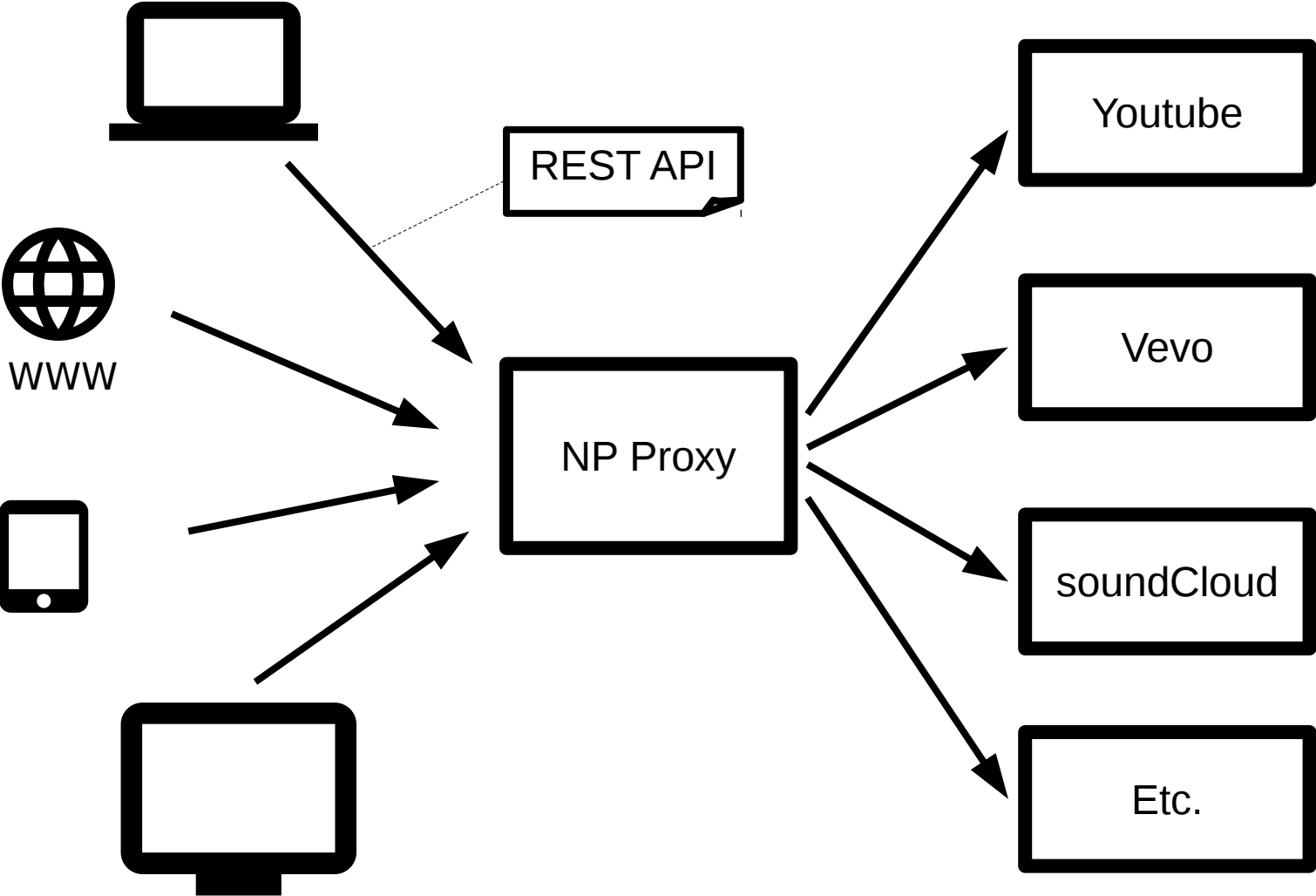


- **Transportr app as an example**
- **Supports multiple services**
- **Switch between services**

# NP Framework



# NewPipe Proxy



# How You can Help

- 1. Translate using Weblate**
- 2. Bug hunting Sentry**
- 3. Improve NewPipe**
- 4. Experiment with NewPipe**
- 5. Q & A**



# Summary

- **Get NewPipe via F-Droid**
- **Help improving NewPipe**
- **Experiment with NewPipe**



# THANK YOU FOR YOUR ATTENTION !



## Acknowledgement:

Great thanks to **Bernát Földesi** for creating the design, and CI of NewPipe.

Another great thanks to **The Assasine** for hosting and maintaining the support backend

Also of course a great thanks to the **community** that continuously contributes ;)

## Contact info:

Mail: [tnp@schabi.org](mailto:tnp@schabi.org)

Github: [TeamNewPipe/NewPipe](https://github.com/TeamNewPipe/NewPipe)

Web: [newpipe.schabi.org](http://newpipe.schabi.org)