



NewPipe

Biblioteca Civica di Rovereto, 08/11/2022

FABIO GIOVANAZZI

Stypox

<https://newpipe.net>



- 1. Cos'è NewPipe?**
- 2. Funzionalità principali**
- 3. Funzionalità future**
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- 6. Progetti simili**

Cos'è NewPipe?



- Front-end leggero per lo **streaming**
- App **Android** disponibile su F-Droid
- **Software**  GET IT ON **F-Droid** **liberissimo** della privacy



Cos'è NewPipe?



Naviga **You**Tube, **Peer**Tube e
altri servizi senza **permessi**
discutibili e **pubblicità**

fastidiose



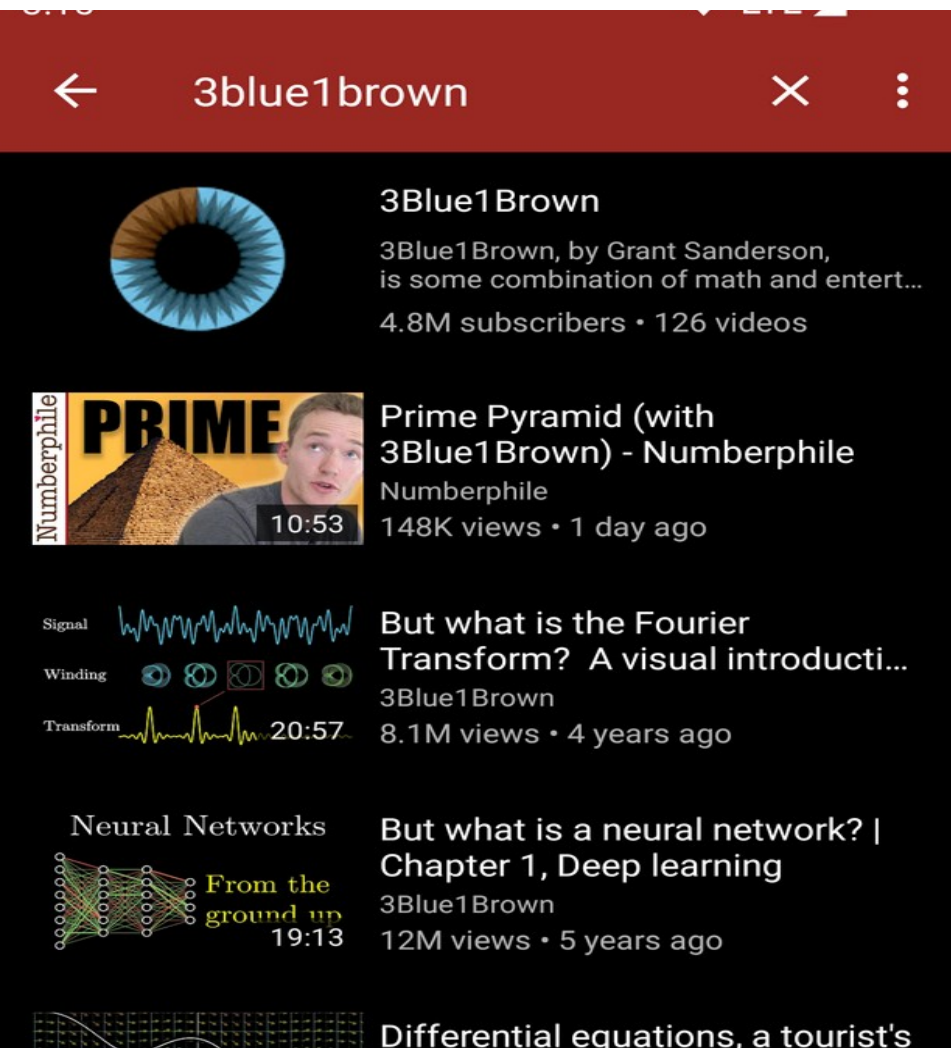
Cos'è NewPipe?



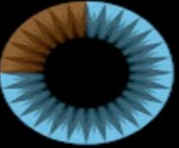
F-Droid è uno **store** di app
Android Libere e Open Source che
rispettano l'utente



Funzionalità principali

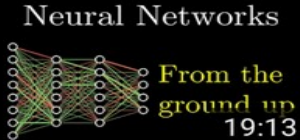


← 3blue1brown × ⋮

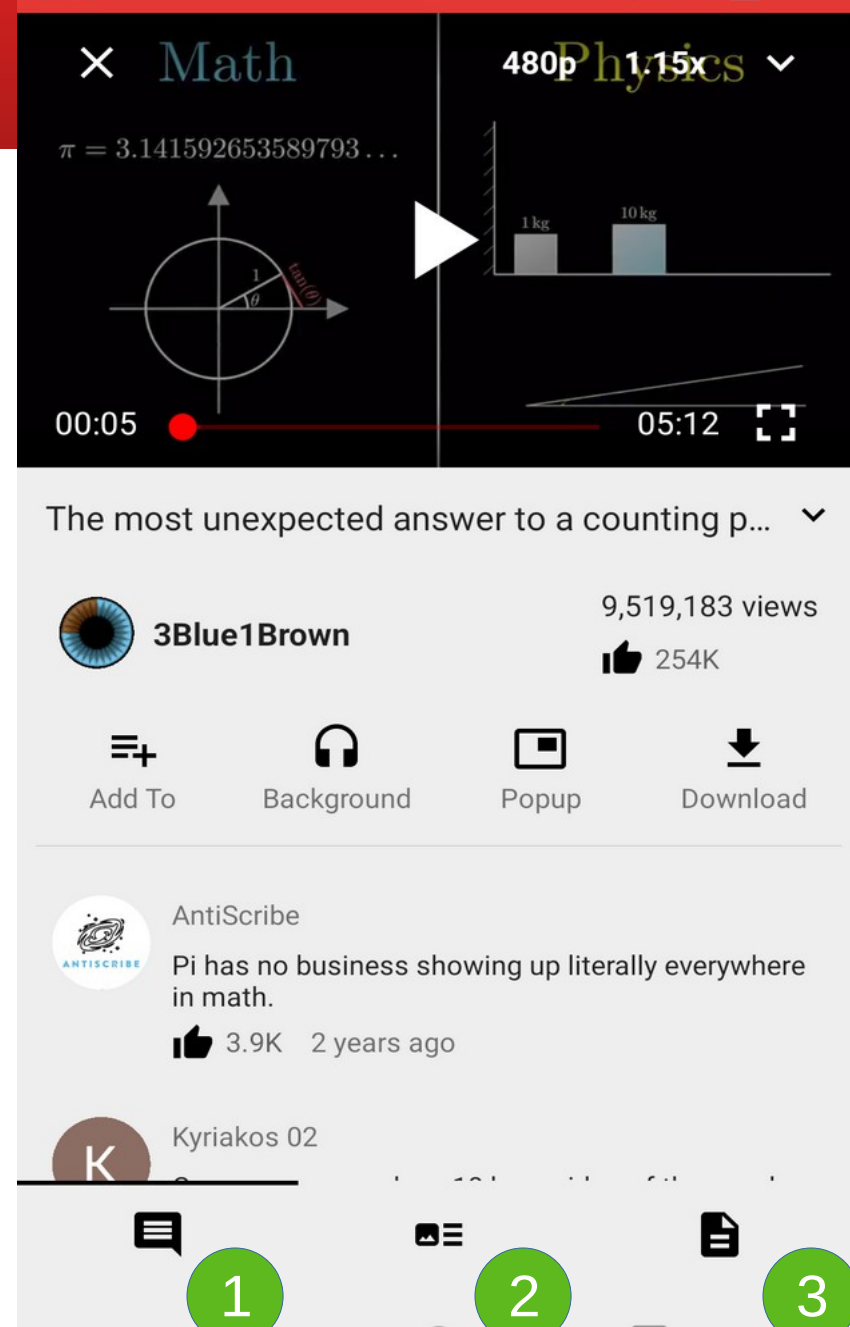
 **3Blue1Brown**
3Blue1Brown, by Grant Sanderson, is some combination of math and entert...
4.8M subscribers • 126 videos

 **Prime Pyramid (with 3Blue1Brown) - Numberphile**
Numberphile
10:53
148K views • 1 day ago

 **But what is the Fourier Transform? A visual introducti...**
3Blue1Brown
8.1M views • 4 years ago

 **But what is a neural network? | Chapter 1, Deep learning**
3Blue1Brown
12M views • 5 years ago

 **Differential equations, a tourist's**



× Math 480p 1.15x ✓

$\pi = 3.141592653589793 \dots$

00:05 05:12

The most unexpected answer to a counting p... ✓

 **3Blue1Brown** 9,519,183 views
👍 254K

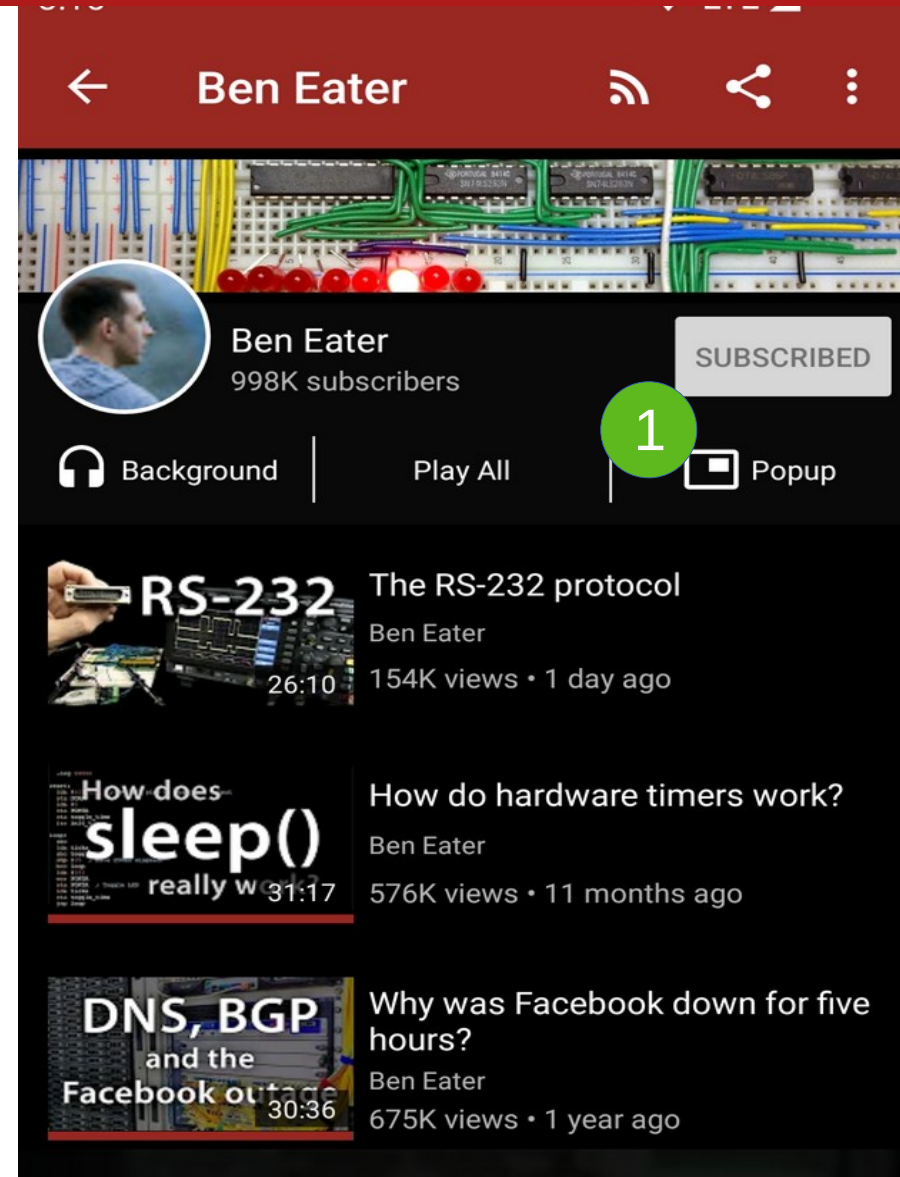
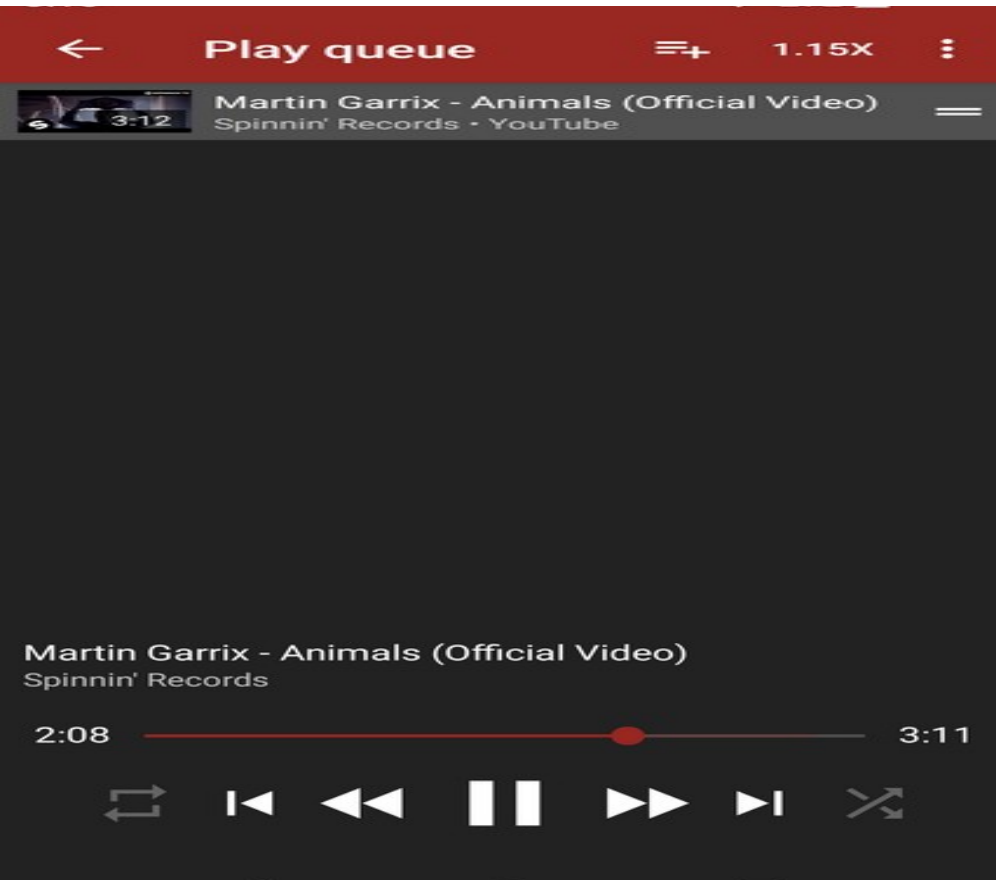
≡+ Add To 🎧 Background 🖥️ Popup ⬇️ Download

 **AntiScribe**
Pi has no business showing up literally everywhere in math.
👍 3.9K 2 years ago

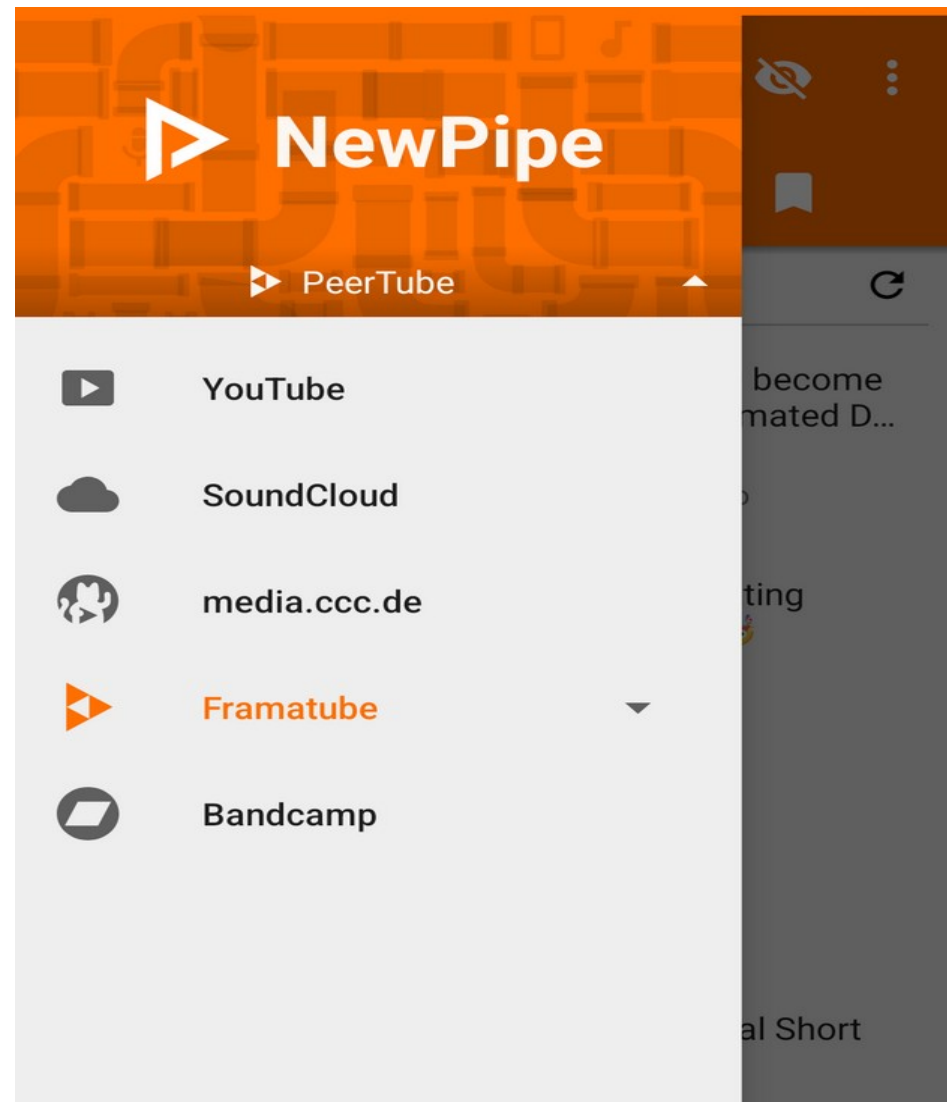
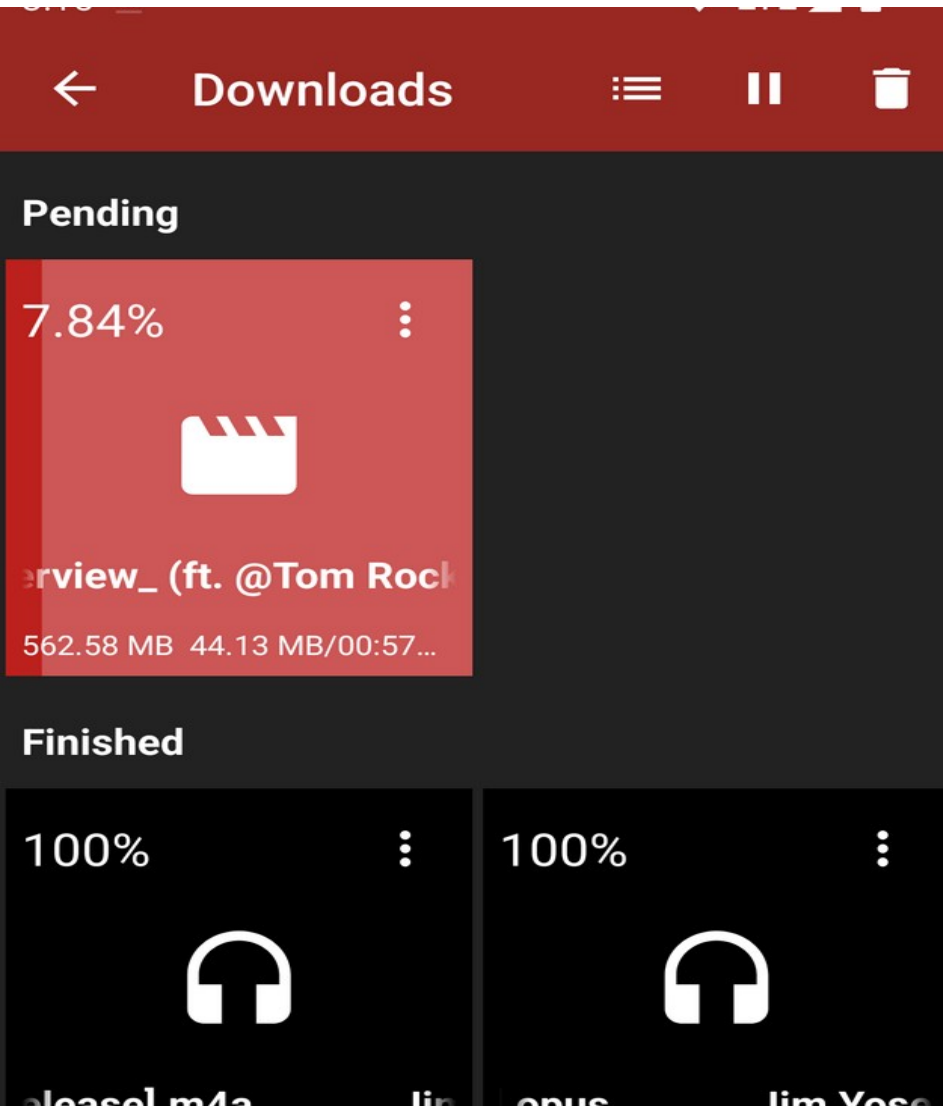
 **Kyriakos 02**

1 2 3

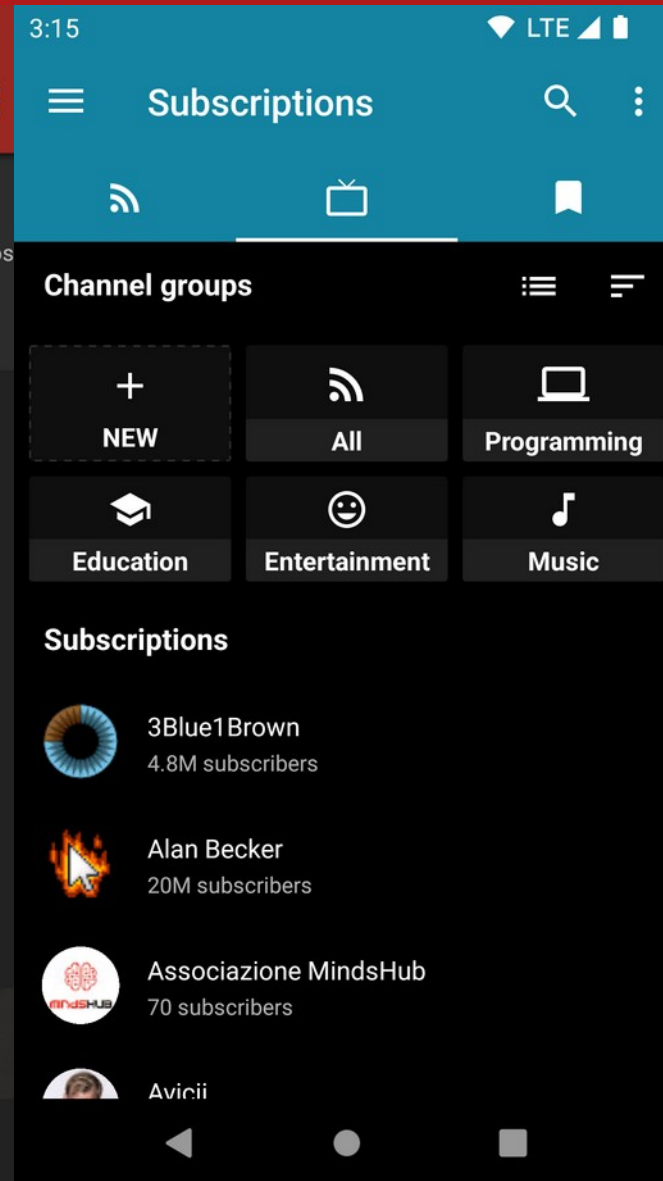
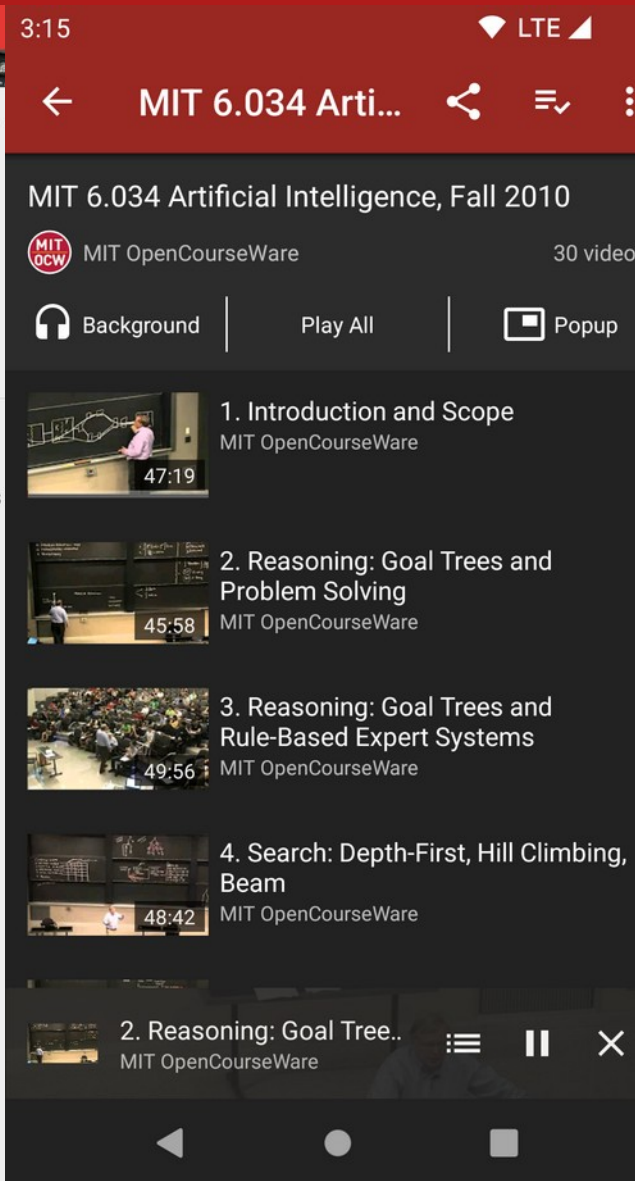
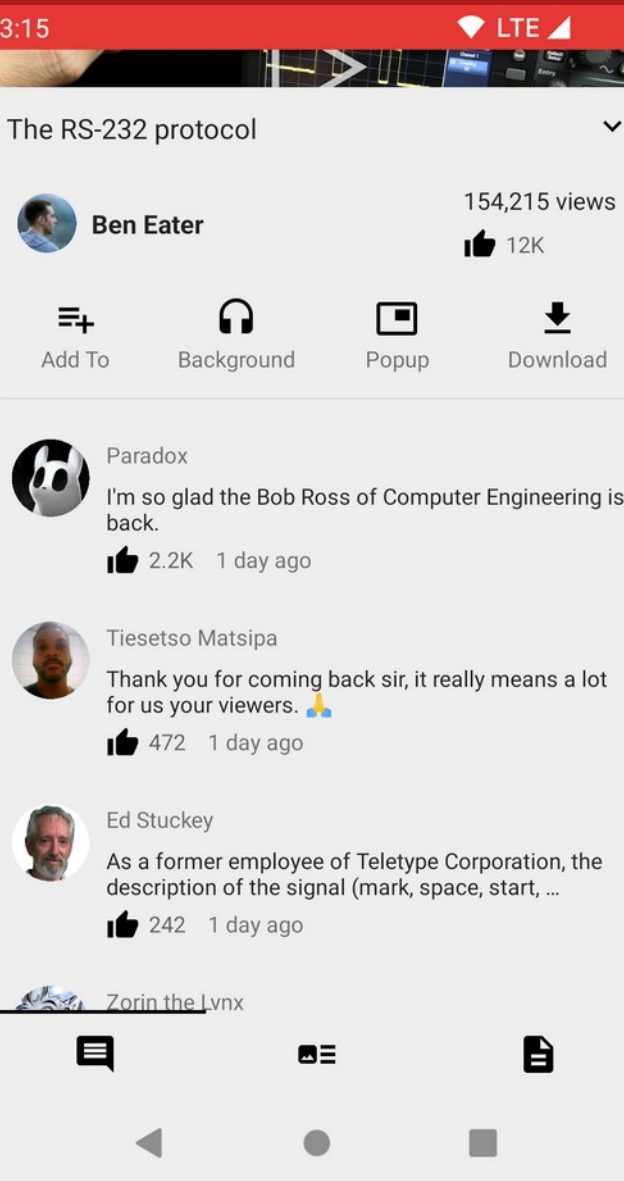
Funzionalità principali



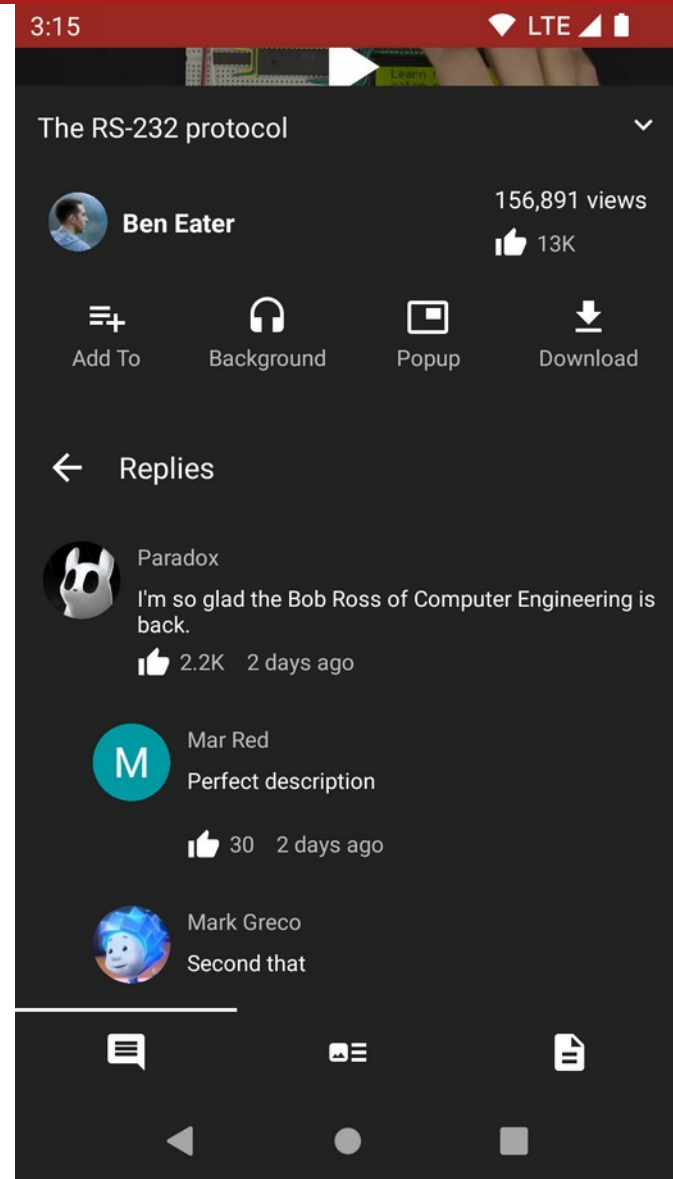
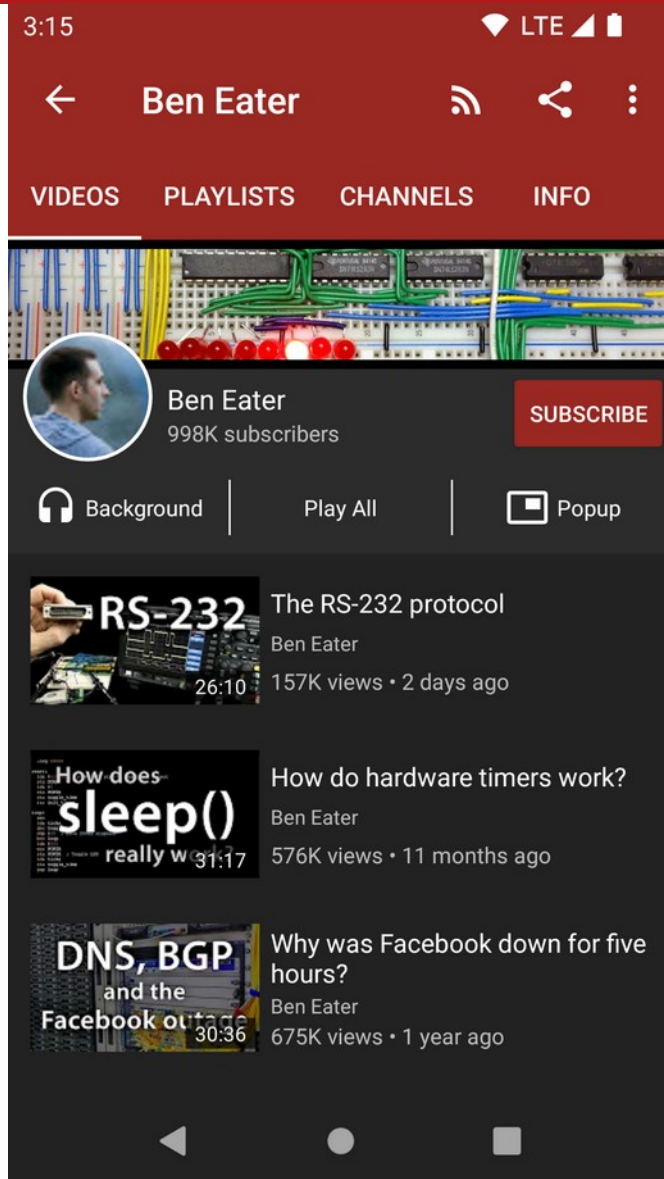
Funzionalità principali



Funzionalità principali



Funzionalità future



- API ufficiali **non** usate
- Stesse **richieste** web dei browser
- Informazioni estratte dalle **risposte**
- Rispettoso della **privacy**

Scraping

blender

X 🔍

Home

Files

Trending

Lives

Blender

998K subscribers • 1,075 videos

Official YouTube channel for Blender, the Free and Open Source 3D Creation Suite. The Freedom to Create.

Subscribe

↑ Network

Style Editor Performance Memory Storage Accessibility Helpdesk

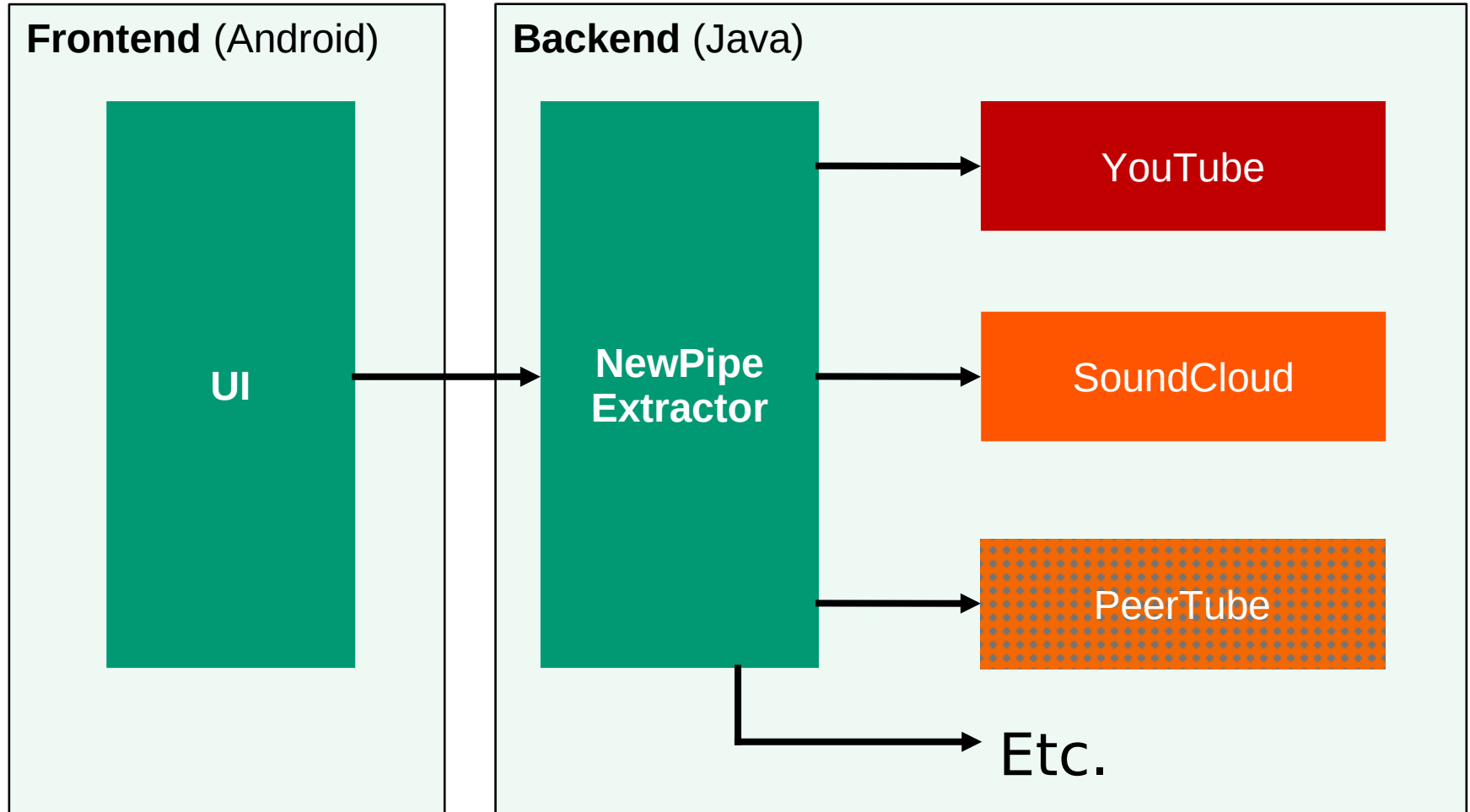
Status	Method	Domain	File	Initiator	Type	Transfered	Size
200	POST	www.youtube.com	search?key=AAAAACgIPtmgPQdTEMGOWw...	desktop_polymer...	json	51.09 kB	780.12 kB
200	GET	www.google.com	https://www.youtube.com/watch?v=AAAAACgIPtmgPQdTEMGOWw...	desktop_polymer...	css	688 B (cached)	5.11 kB
200	GET	www.google.com	https://www.youtube.com/watch?v=AAAAACgIPtmgPQdTEMGOWw...	desktop_polymer...	css	128 B (cached)	1.07 kB
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200	POST	www.youtube.com	https://www.youtube.com/watch?v=AAAAACgIPtmgPQdTEMGOWw...	desktop_polymer...	json	490 B	20 B

Headers Cookies Response Timing DevTools Security

Response

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{
  "responseContext": {
    "serviceTrackingParams": [...],
    "mainAppWebResponseContext": {...},
    "webResponseContextExtensionData": {...}
  },
  "estimatedResults": "19425220",
  "contents": {
    "twoColumnSearchResultsRenderer": Object {
      "targetId": "search-two-column-feed",
      "primaryContents": {...}
    }
  },
  ...
}
```

Scraping



- Team da tutto il mondo
- Devs **interfaccia**, devs **estrattore**, gestori **issues**, gestori **infrastruttura** 
- Coordinazione su IRC / Matrix

Mettere d'accordo la community...

🔧 Buttons on top of thumbnail

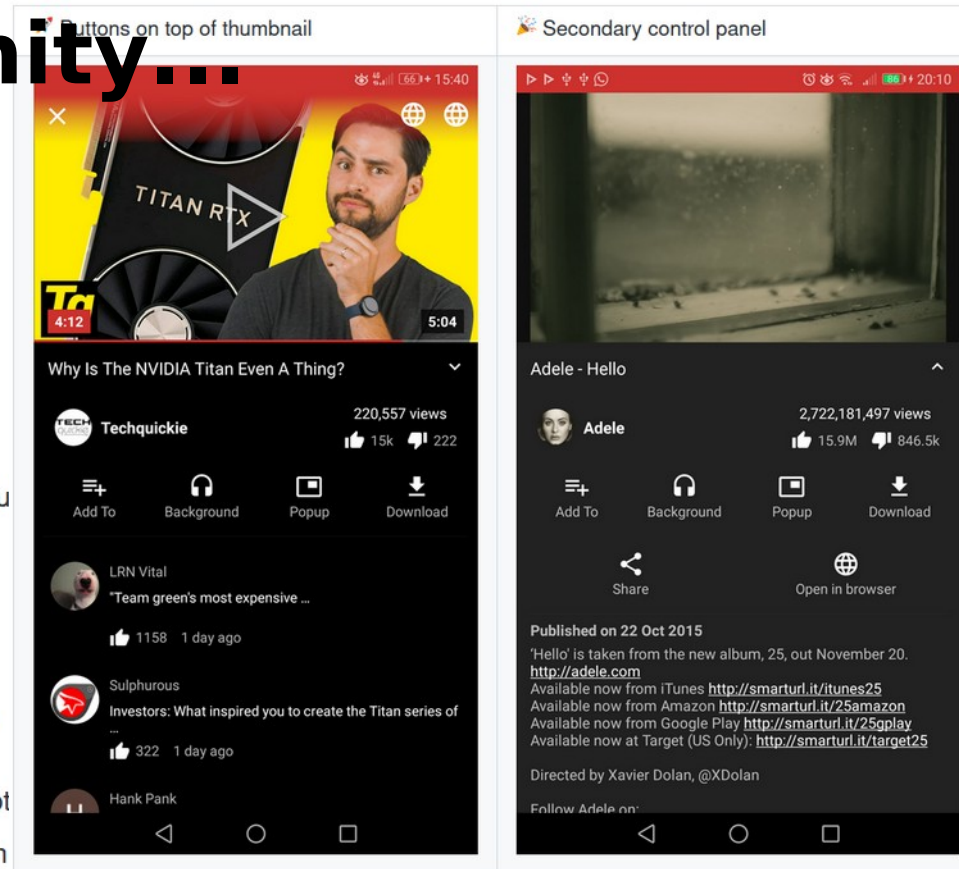
- ✓ Accessible right away
- ✗ Partially hides thumbnail
- ✗ Makes the UI cluttered and complicated for new users
- ✗ Not much space available for e.g. both audio and video selectors
- ✗ Not accessible with autoplay

🔄 Swipeable row of buttons

- ✓ Easy to access
- ✓ Good-looking
- ✗ Not completely intuitive for all users, also probably difficult to find out
- ✗ Too many nested swipeable views
- ✗ Audio and video selectors would not fit

🔧 Current implementation, secondary control panel with dropdown button

- ✓ Not shown if not needed (which is expected for most users, thus not)
- ✓ Space available to add, in the future, audio and video selectors with
- ✓ Intuitive even for new users since it is normal to have buttons that appear after tapping on something (see e.g. three-dot menu)
- ✗ Takes one more click to access, and worse on Android TVs



Progetti simili



Invidious

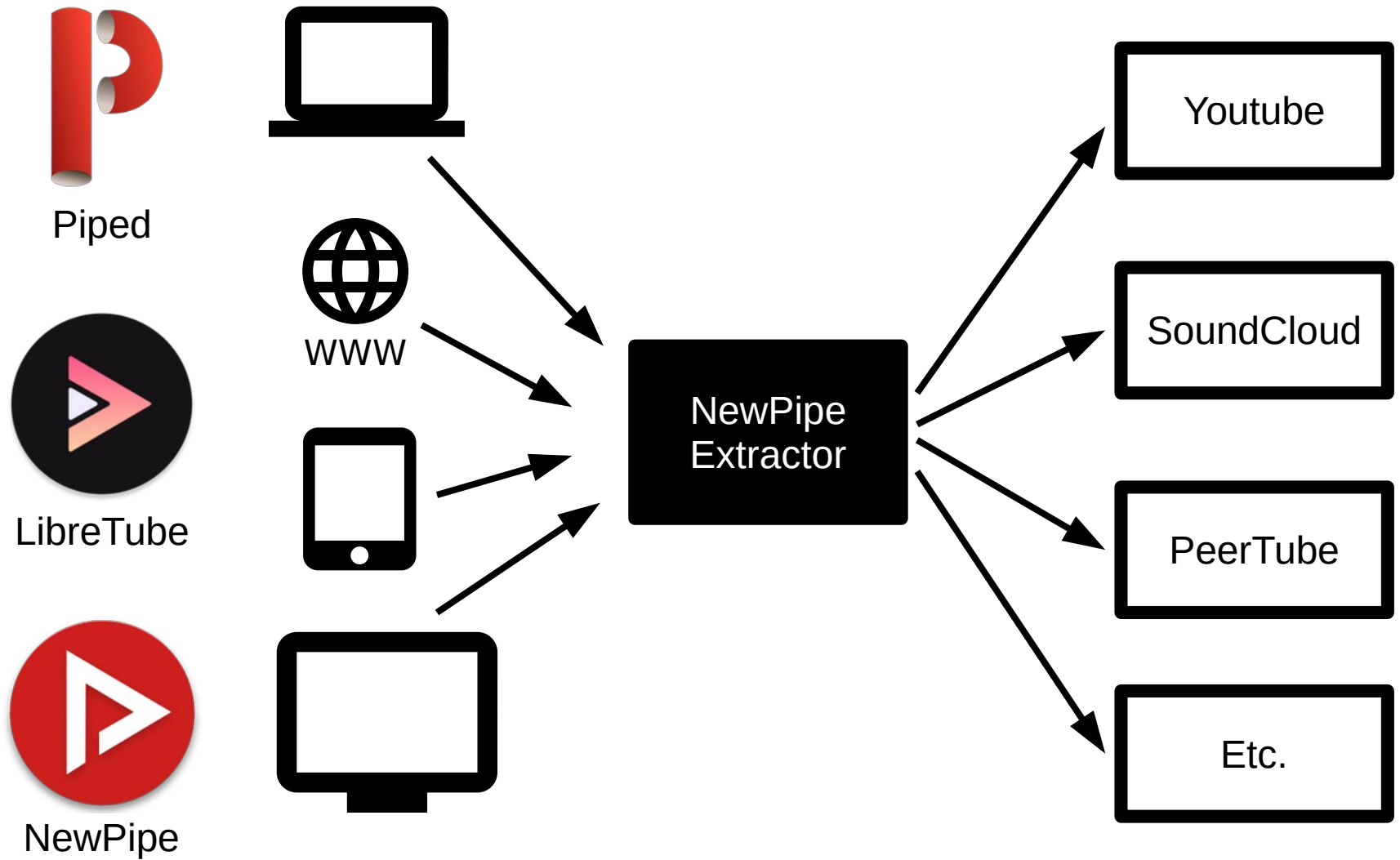


SmartTubeNext



SkyTube

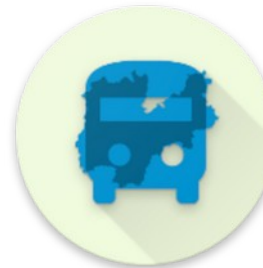
Progetti simili



Progetti simili



Dicio



Tridentia



GitHub:
TeamNewPipe/NewPipe

Web:
<https://newpipe.net>

IRC:
#newpipe:libera.chat



Il mio GitHub: **@Stypox**
stypox@pm.me

Great thanks to **all team NewPipe members** for continued development and management of the app.

Thanks to **Schabi** for the layout of this presentation.

Also of course a great thanks to the **community** that keeps contributing and providing feedback ;)