

VideoLAN



VLC 2.2.0

Jean-Baptiste Kempf

samedi 31 janvier 2015



JEAN BAPTISTE- KEMPF •VLC•


I'M EXCITED TO
ANNOUNCE THE
RELEASE OF
VLC 1.0!

The world's most downloaded video player:
VLC: www.videolan.org/vlc
(free and open source)

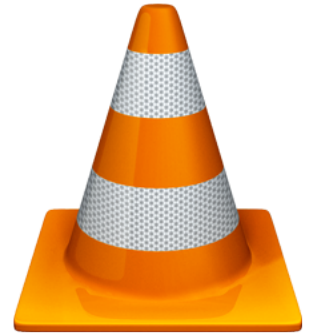
VISUAL FACILITATION BY ROYBLUMENTHAL.COM (CC) ATTR SHARE-A-LIKE



VideoLAN.org

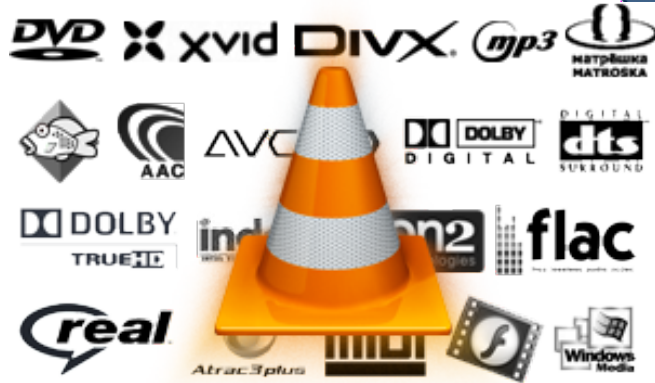
An aerial photograph of the University of Kentucky campus. The central feature is a large, oval-shaped stadium with a green field and a reddish-brown track. To the left of the stadium is a long, multi-story building with a flat roof. To the right is a cluster of smaller, rectangular buildings. The campus is surrounded by green lawns, trees, and parking lots. A road runs along the right side of the image. The text "Ecole Centrale Paris" is overlaid in the center.

Ecole Centrale Paris



The Cone





VLC

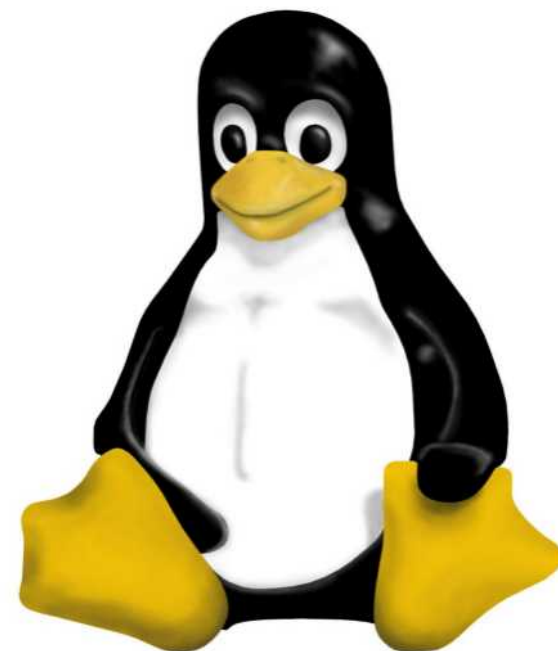
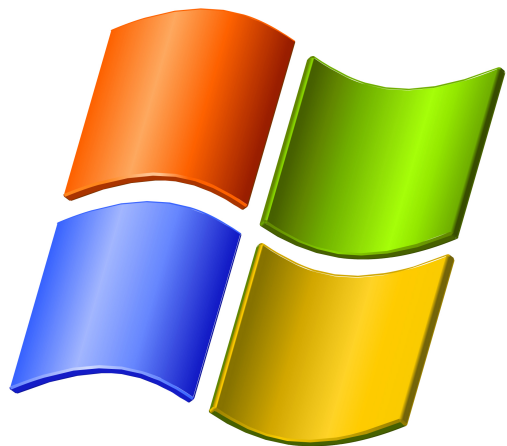


web-m

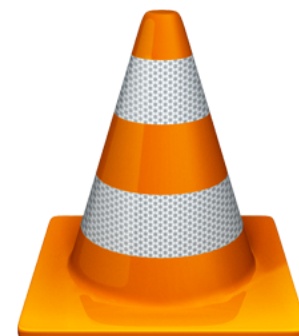


AVCHD





ANDROID





1M per day

**More than 2B over
VLC lifetime**

**1 every 6 Mac
Top 15 Windows**

**Most used French
software**

Support for DVDs

- Region independent
- Prevents forced subtitles (if desired)

... Blu Rays

- By default, non-encrypted only

... network streams

- Unicast, multicast, adaptive streaming

... external hardware

- Cameras, TV input, Satellite, ASI/SDI ...

VideoLAN Client



Tout dernier modèle anti-interception.

VideoLAN Client



My Little Pony Friendship Is Magic S01E25 - VLC media player

Media Playback Audio




 MKV test_suite

Raccourcis

Recher...

Récem...



Bureau

Système ...

MON PR...

SDATA2

Nom

Taille

Modifié

test.mkv

1,7 Mo

22/12/2011

test1.mkv

22,3 Mo

21/08/2010

test2.mkv

20,2 Mo

02/06/2011

test3.mkv

20,1 Mo

21/08/2010

test4.mkv

20,3 Mo

21/08/2010

test5.mkv

30,3 Mo

21/08/2010

test6.mkv

22,3 Mo

21/08/2010

Media Files

Annuler

Ouvrir



00:31

21:59



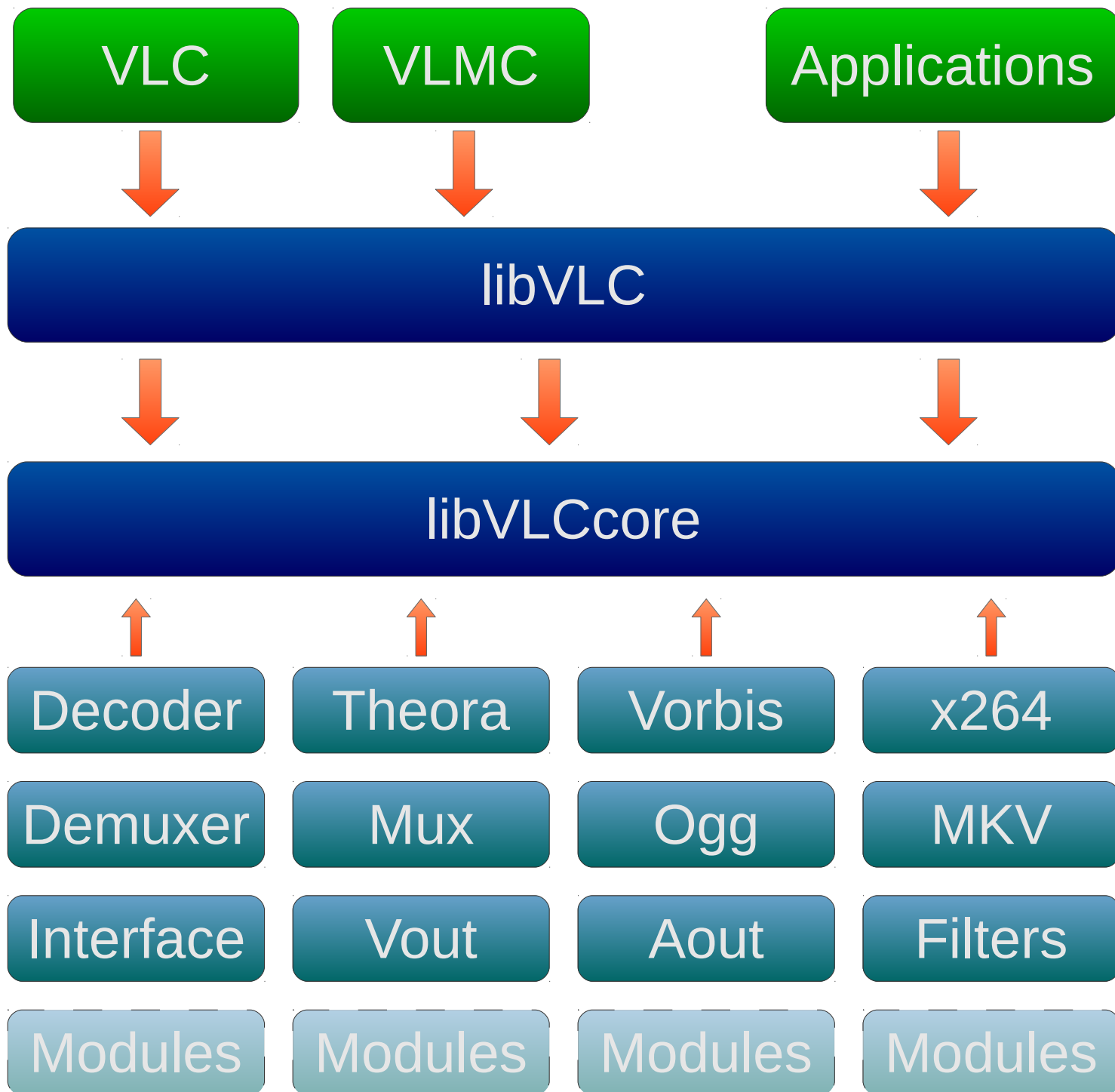
Decisions

VLC Contributors

- Core Team 5~10 people
- 600 over the lifetime
- 150 per year

Decisions

- Maintainable !
- Technical and standard compliant
- 0 marketing, 0 legal
- Code = > Power
- Consensus or Fork




Architecture

Small Core

- libVLCCore
- Light
- Memory, Network and Threads handling
- Module loading
- Clock / Synchronization

Simple Multimedia Framework

- LibVLC
- bindings for C++, C#, Objective-C, Java, lua, Perl, Python, Node.JS

A scenic landscape featuring a calm body of water in the foreground, with several dark, weathered wooden posts or pilings protruding from it. The background shows a range of mountains, some with patches of snow, under a dramatic sky with soft, pinkish-orange clouds. The overall mood is serene and somewhat melancholic.

VLC 2.2.0

VLC 2.1.0

VLC 2.1.0

- Rincewind
- Released in October 2013
- 2.1.1 → 2.1.5
- ~ 400millions downloads
- Quite stable, but some regressions

2.2.0

- WeatherWax
- 4475 commits
- Long to come
- Very strong release
- Numerous users features
- libVLC

2.2.0 Features

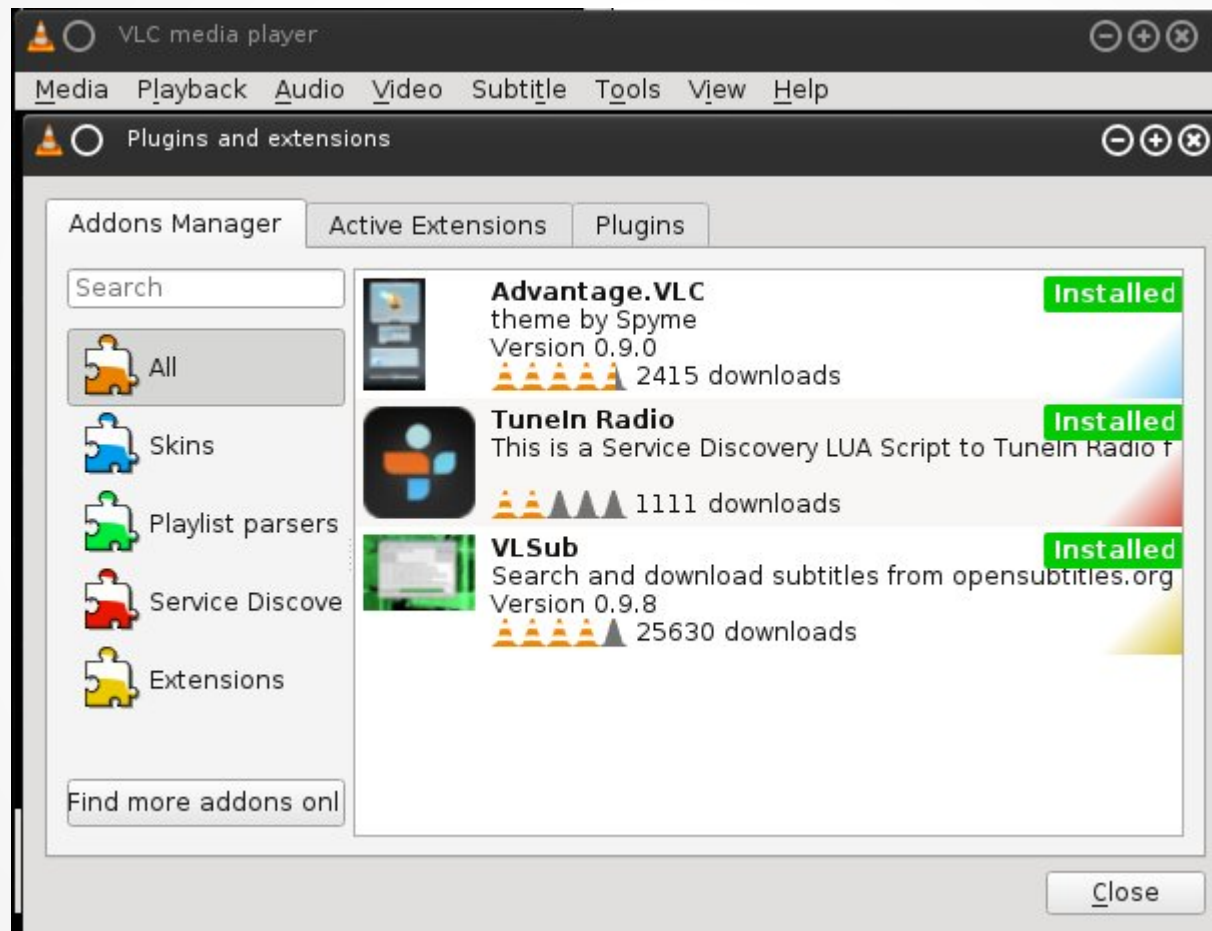
Vertical Video Syndrome ! (linus!)



- Detection in mp4, mkv, H264
- Autorotation
 - Video output request
 - GPU rotation
 - Direct3D, OpenGL, Android Native (3.0)
 - Software rotation

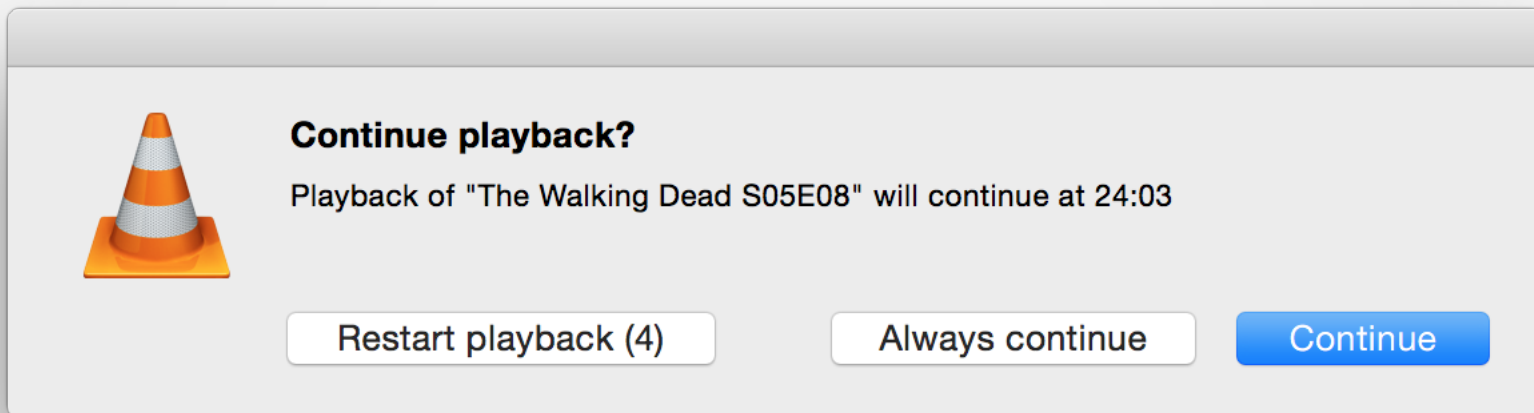
Extensions

➤ Extensions downloader



Resume

- Resume where you left off



Supports

- HEVC, VP9, Opus
 - MKV, TS, mp4
- BD-J
- FTPS
- DCP
- Weird codecs
 - MSN Audio, Atrac3+, VP7, Bink, TAK, On2 AVC, DK3, DK4, IMC, Vivo g723.1, Smacker, FIC, Auravision, Canopus Lossless...
- Speex, FFv1, H.264, VP8/Ogg, WebVTT

Supports

- Large Rewritten
 - Ogg (seek, streamng)
 - MP4/MOV (seek, fragemented, Vobsub, track)
 - WMV (seek porn, track exclusion)
 - Metadata support
- Modules
 - libvpx, jpeg, SVG, tx3g, png
 - SecureTransport

GPU 0-copy

GPU 0-copy

- Old way
 - Proper stages
 - *Memcpy is murder*
 - GPU decoding : CPU → GPU → CPU → GPU
- 0-copy
 - Fake fmt
 - Decoding and displaying done on the GPU
- Support
 - Linux VDPAU
 - Android MediaCodec
 - rPI MMAL

Misc

- OSX
 - Yosemite
 - Multi video output
 - Webplugin is back
- Encoders
 - x262, 265
 - Opus, jpeg, png

Mobile

- iOS 2.3.0/2.4.0
 - libVLC 2.2.0
- Android 1.0.0
 - libVLC 2.2.0
- WinRT x86 0.1.5
 - LibVLC 2.2.0
- libVLC usable :)

Android



VLC for Android

100 % Open Source

- 2.1+

Full video player

- All codecs, formats, protocols
- Hardware and multicore decoding

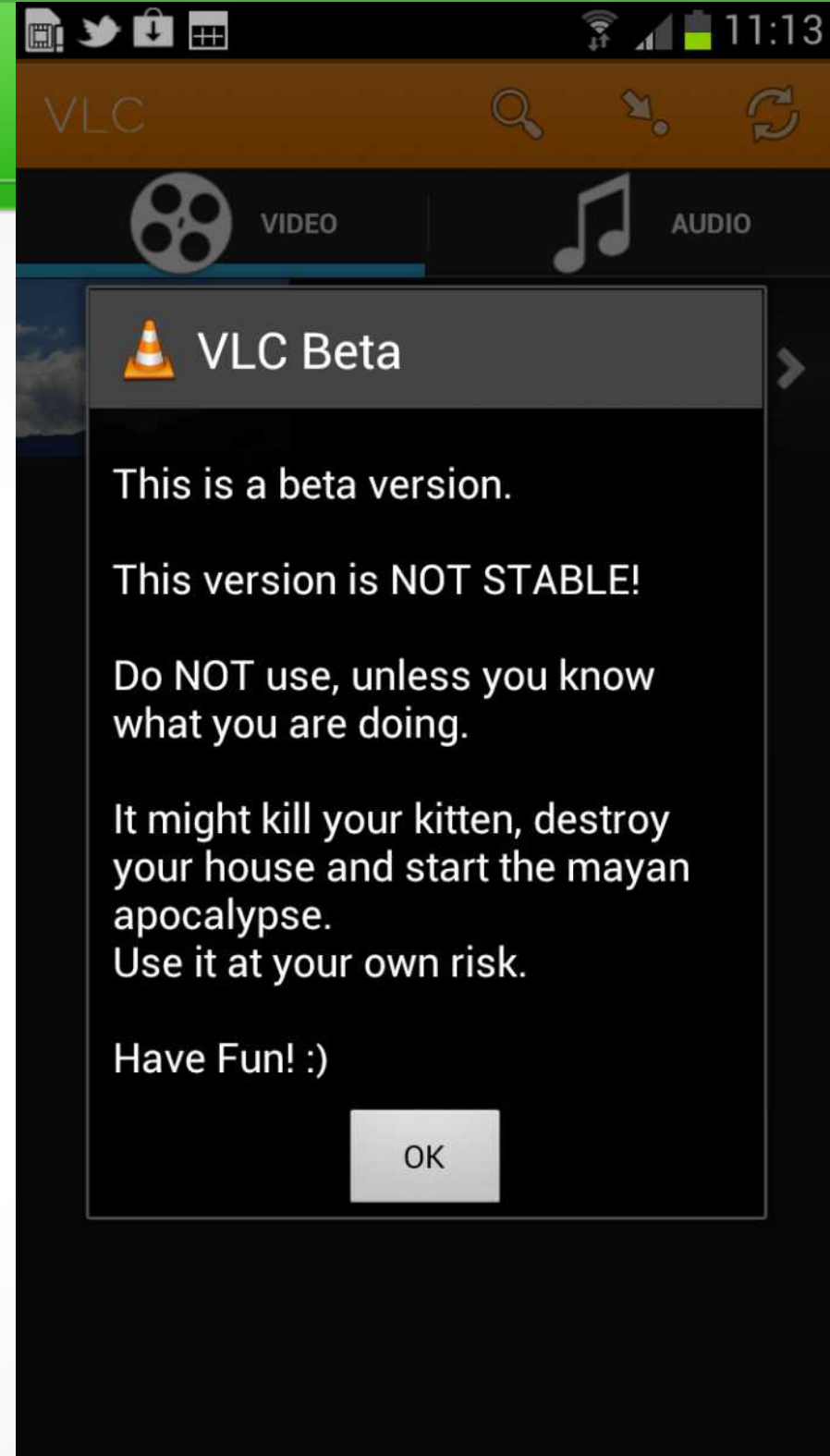
Full audio player

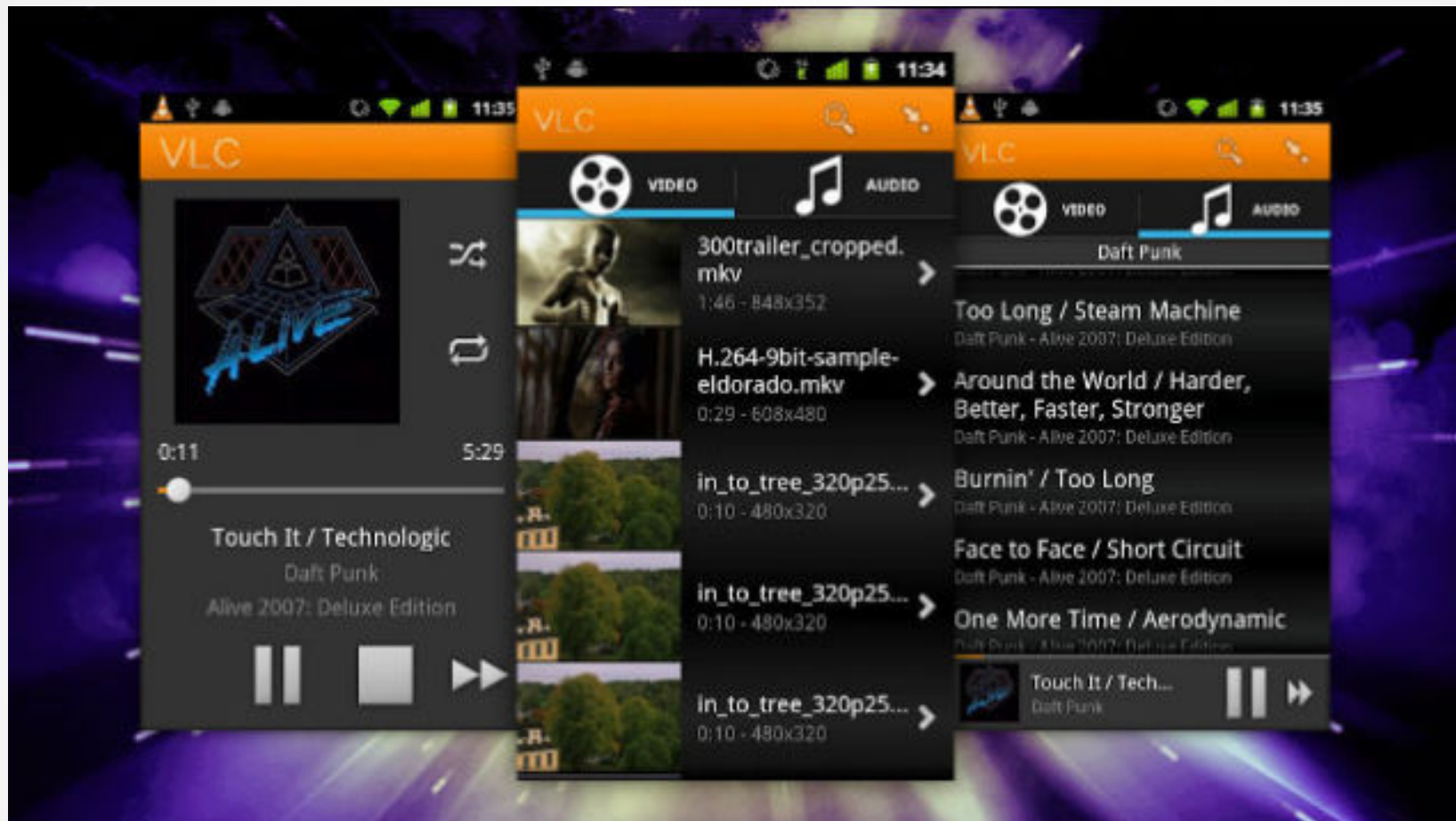
- Media library & Indexing
- Audio Background service

Release

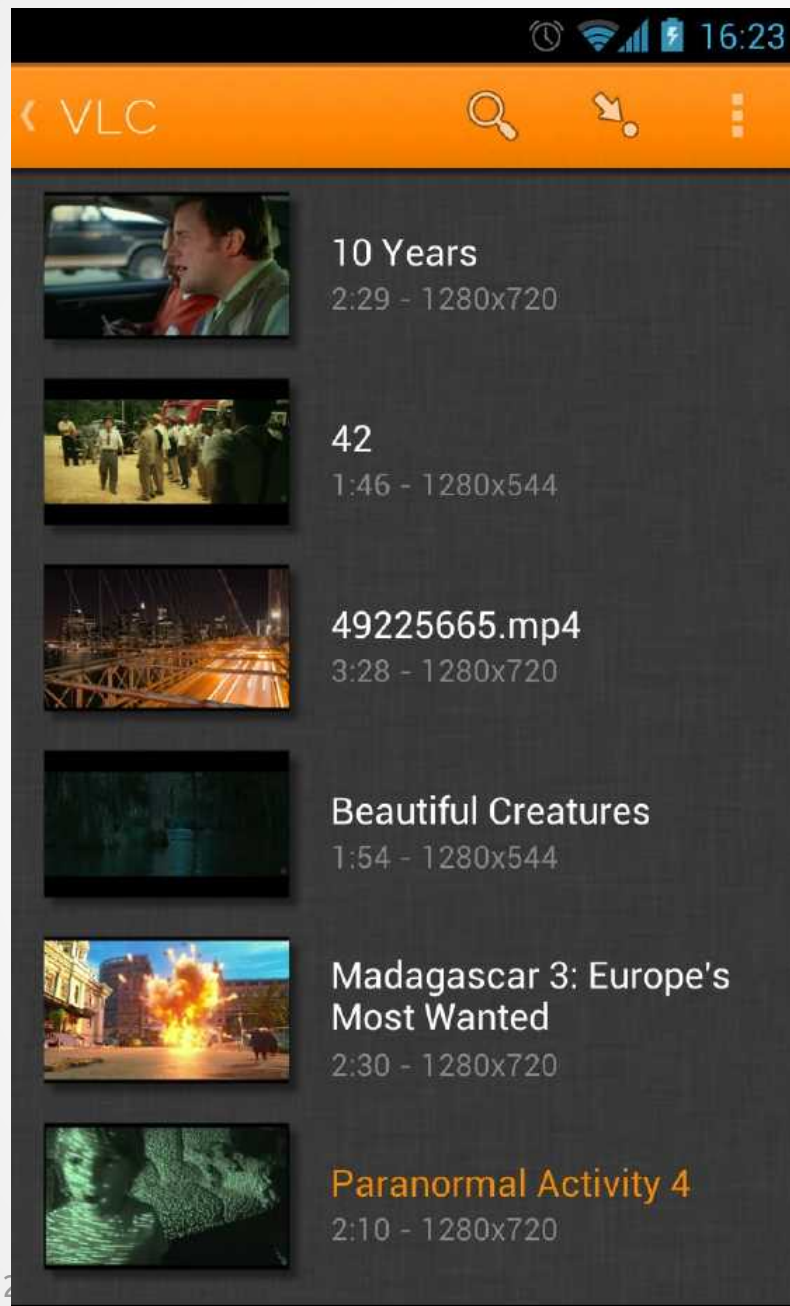
Release in July 2012

- › Beta on *Google Play*
- › Limited countries
- › ARMv7 only
- › Numerous crashes
- › Good feedback
- › GPLv3





Evolution



Audio v2

Arctic Monkeys

ALBUMS SONGS

Arctic Monkeys

- Brianstorm
- Favourite Worst Nightmare
- Fluorescent Adolescent
- I Bet You Look...e Dancefloor
- Leave Before...hts Come On
- Whatever Peo...What I'm Not
- When The Sun Goes Down
- Who The Fuc...ctic Monkeys

2CELLOS

ALBUMS SONGS

2CELLOS

- 2CELLOS
- In2ition

Oh, Well
2CELLOS

0:13

Highway to Hell
2CELLOS

Technical Difficulties
2CELLOS - In2ition

Clocks
2CELLOS - In2ition

Bang Bang
2CELLOS - In2ition

Voodoo People
2CELLOS - In2ition

Candle in the Wind
2CELLOS - In2ition

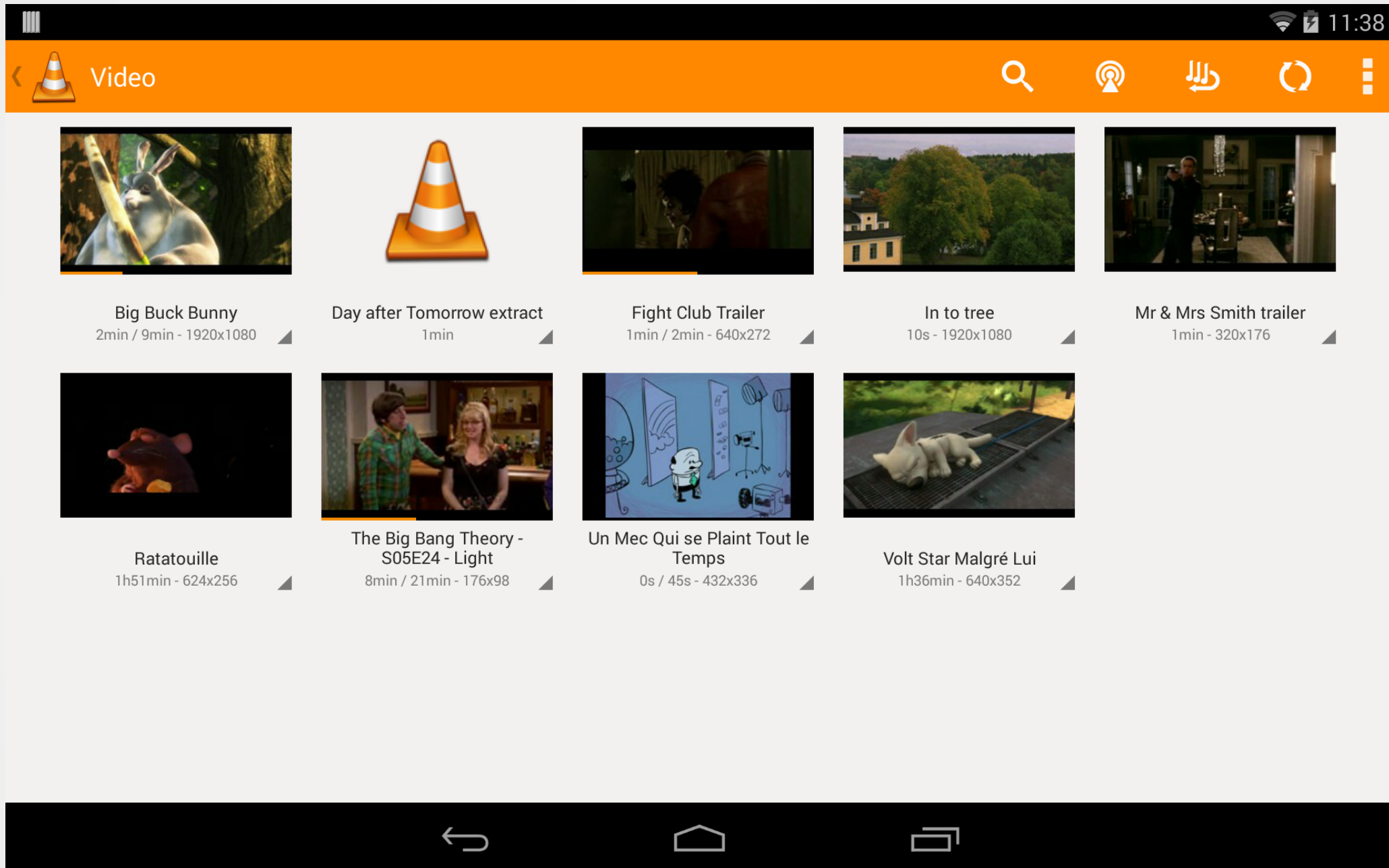
Orient Express
2CELLOS - In2ition

Il Libro Dell'Amore
2CELLOS - In2ition

Benedictus
2CELLOS - In2ition

0:43 3:54

Video v2



Now

Release 1.0.0 !

- Numbers
 - 42M installed
 - 20M active
- 1.1.0
 - Hardware acceleration
 - OMX
 - Mediacodec native
 - SMB, UpnP, Facebook
 - Android TV
 - Android-L

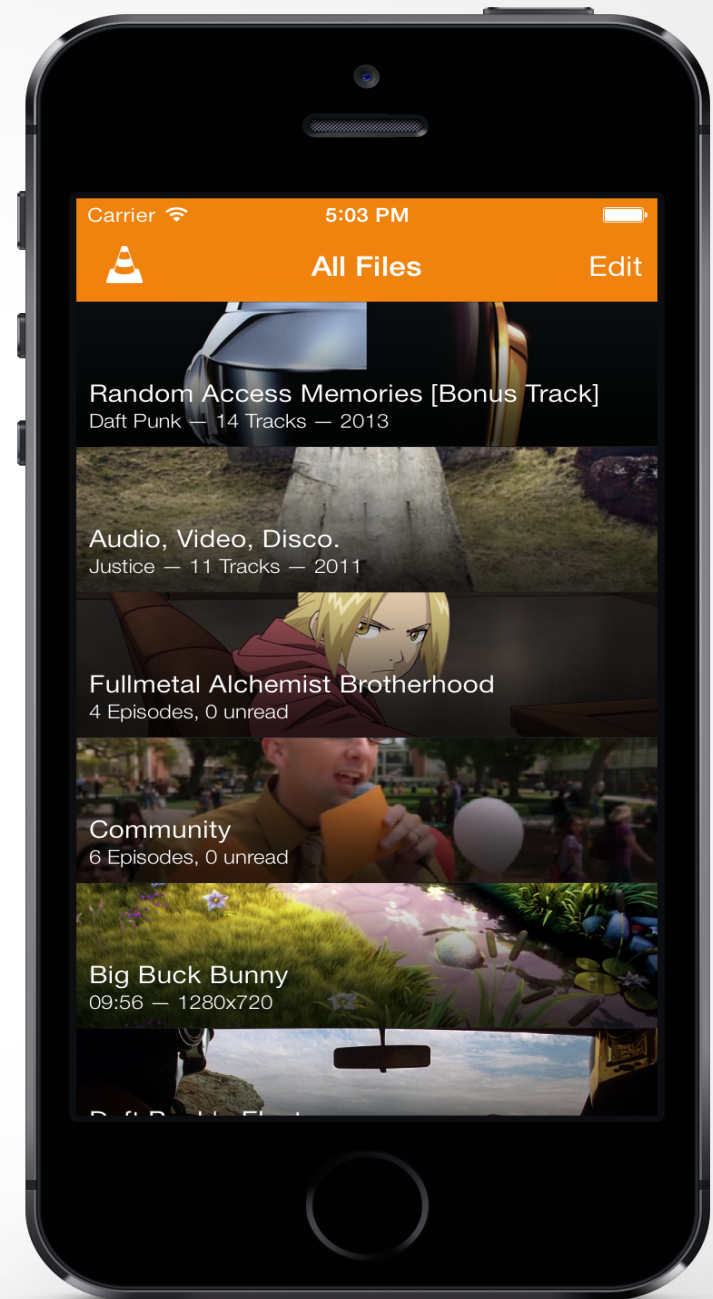
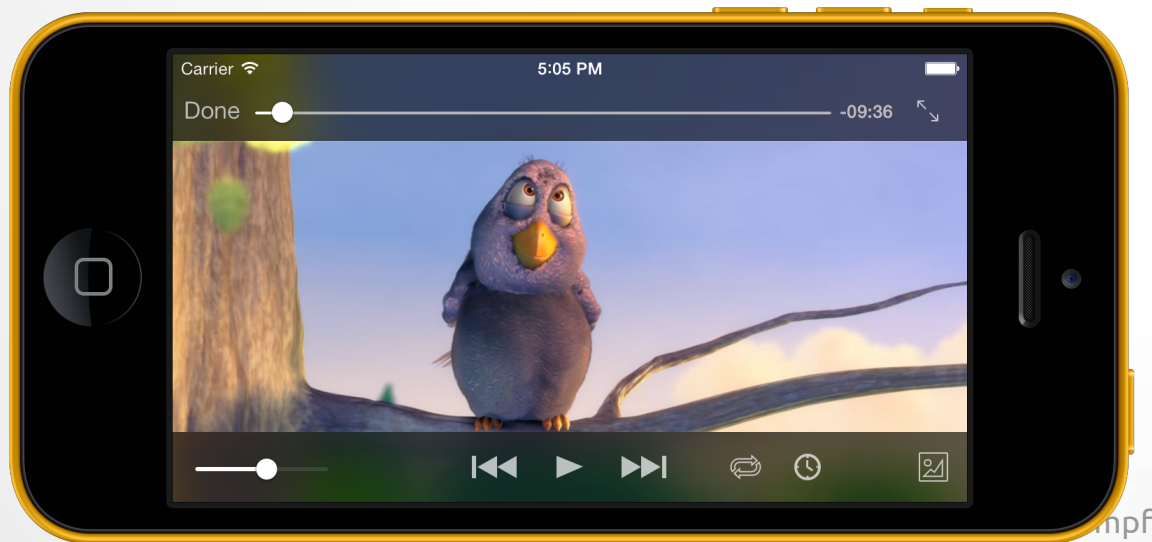
VLC for iOS

VLC for iOS

Requires iOS 6.1 (+) device

- iPhone 3GS
- iPad 2nd
- iPod touch 3rd gen

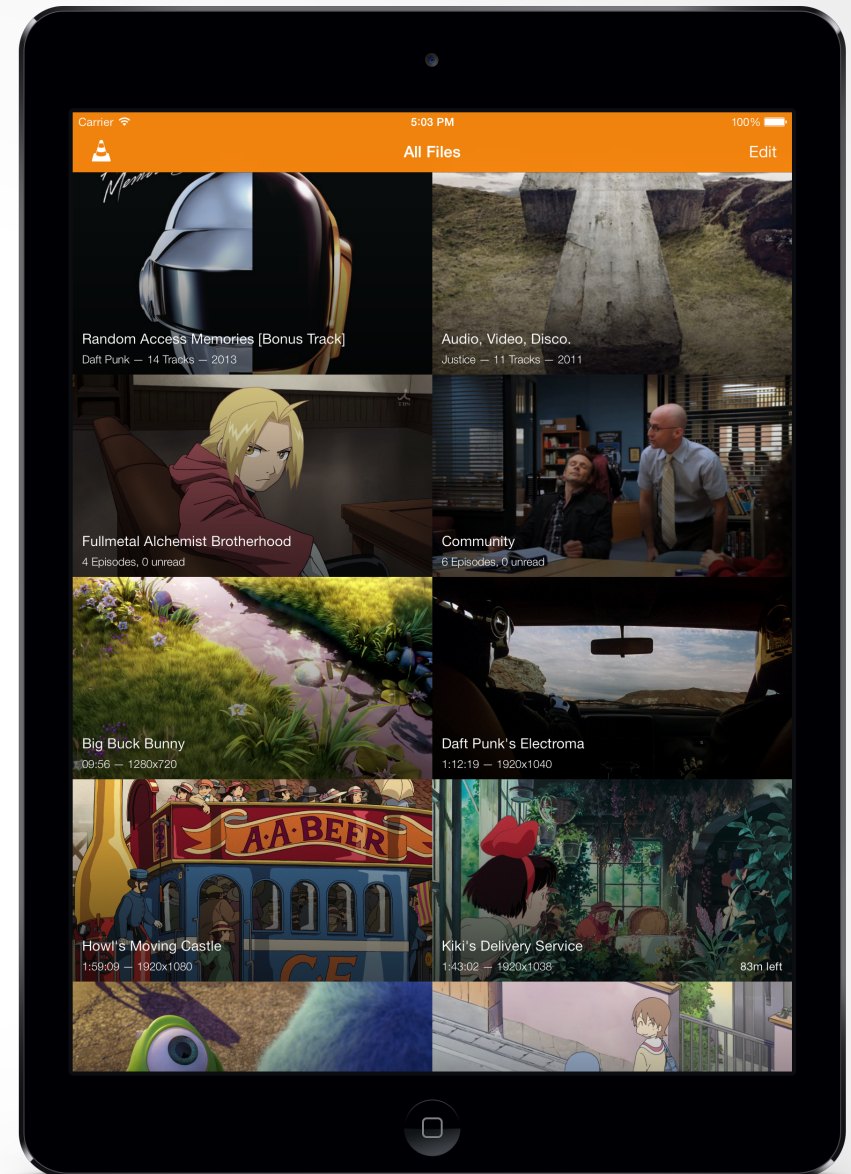
10 Millions users



VLC for iOS

VLC for iOS features

- Very fast
 - Multi-core decoding
 - OpenGL shaders
 - ARMv8
- Including 10bits support
- Wifi Downloads
- Plex,
- Callbacks for 3rd party apps
- Improved Search
- Bugfixes



VLC for WinRT

 VLC media player

Search



home

videos

music

removable devices

media servers

albums artists songs

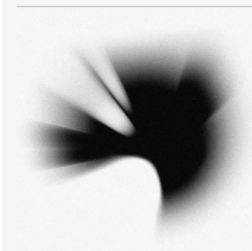
LINKIN PARK



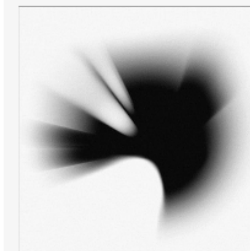
Linkin Park
[Reanimation]



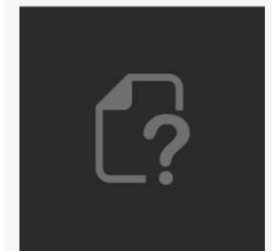
Linkin Park
8-Bit Rebellion



Linkin Park
A Thousand Suns



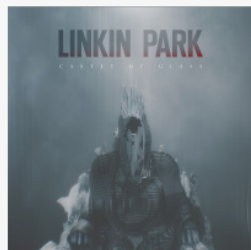
Linkin Park
A Thousand Suns (Japan...



Linkin Park
A Thousand Suns Plus...



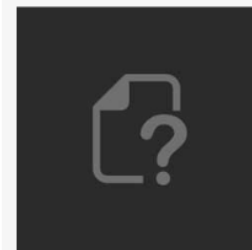
Linkin Park
A Thousand...



Linkin Park
CASTLE OF GLASS - EP



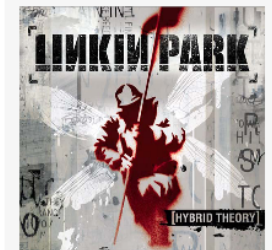
Linkin Park
Download to Donate to...



Linkin Park
Download to Donate:...



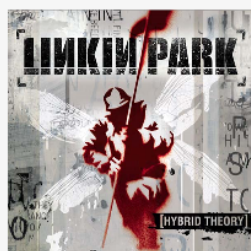
Linkin Park
FIFA 11 OST



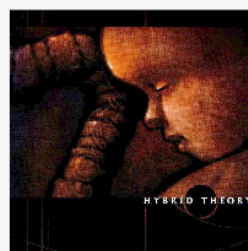
Linkin Park
Hybrid Theory



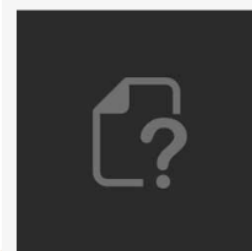
Linkin Park
Hybrid Th...



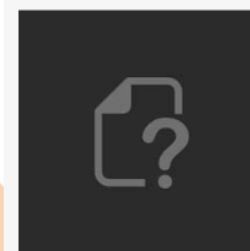
Linkin Park
Hybrid Theory [Bonus Disc]



Linkin Park
Hybrid Theory EP



Linkin Park
Hybrid Theory: Live...



Linkin Park
In the End: Live & Rare



Linkin Park
LINKIN PARK 2011 North...



Linkin Park
Live In Te

3.0.0

- 2.2.0 release next week
- 3.0.0
 - HDS, Dash, Smooth streaming
 - Wayland
 - GPU zero-copy OMX IL
 - ARIB subtitles
 - Hevc VP9 hw decoding Android
 - Large rework of MP4 and TS demuxers
 - SMB and SD browsing

A full-page background image showing a sunset over a body of water. The sun is low on the horizon, creating a bright orange glow that reflects on the water's surface. The sky is filled with dark, dramatic clouds, some of which are illuminated from below by the sun, creating a mix of orange, yellow, and blue tones. The water in the foreground is dark with some ripples.

Thank You

Jean-Baptiste Kempf

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Full (!) multimedia framework

- Playback
- Filters
- Control
- Very Limited Streaming
- DVD Ripper, Thumbnailer

Used in

- VLC Android, iOS, Windows Phone
- Phonon (KDE)
- External projects