VLC 2.2.0

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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)
VideoLAN.org
1M per day

More than 2B over VLC lifetime

1 every 6 Mac
Top 15 Windows

Most used French software
VLC

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 ...
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
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

![Extensions Downloader](image-url)
Resume where you left off

Continue playback?
Playback of "The Walking Dead S05E08" will continue at 24:03

Restart playback (4)  Always continue  Continue
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, streaming)
  ➢ MP4/MOV (seek, fragmented, Vobsub, track)
  ➢ WMV (seek porn, track exclusion)
  ➢ Metadata support

➢ Modules
  ➢ libvpx, jpeg, SVG, tx3g, png
  ➢ SecureTransport
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
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 :)
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
- 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
- 2CELLOS
- In2ition

Highway to Hell
- Technical Difficulties
- Clocks
- Bang Bang
- Voodoo People
- Candle in the Wind
- Orient Express
- Il Libro Dell'Amore
- Benedictus
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

Requires iOS 6.1 (+) device

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

10 Millions users
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
➢ 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
Thank You

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libVLC

Full (!) multimedia framework

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

Used in

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