

# VLC media player

ΛΓC 46q!9 b!9Λ6L



Jean-Paul Saman  
[jpsaman@videolan.org](mailto:jpsaman@videolan.org)

# VLC media player

## VideoLAN Association



1998 – Network oriented player

- Cross platform
- Modular

2001 – GPL v2 (or later)

2009 – Creation of VideoLAN Association

Members:

- VLC core developers
- important contributors

# VLC media player VideoLAN Association



## Supports:

- Hardware for Developers
- Travel
- Servers
- Legal
- VideoLAN Developer Days

# VLC media player Volunteers





# VLC media player Volunteers



- Core Team: 5-10 people
- 600 over VLC's lifetime
- ~150 contributors each year

# VLC media player

## Volunteers



- Team meeting once per year
- Using GIT since early 2007
- IRC (FreeNode): #videolan
- Mailinglists
- QA:
  - buildbots
  - nightly builds
  - Release testing

# VLC media player

## VideoLAN Projects



- VLC media player
- Libdvdcss (DVD CSS decryption)
- Libdts, libdca (DTS Decoding)
- Libdvbpsi (TS demuxing)
- Libdvbcsa (DVB CSA decryption/encryption)
- VLC skin designer
- Libblueray, libaacs (BluRay playback)

# VLC media player

## Where to download?



## VLC media player

VLC is een gratis en open source cross-platform multimediaspeler en -framework dat de meeste multimediabestanden en ook dvd's, audio-cd's, vcd's en verschillende streaming-protocols afspeelt.







[Functies](#)[Screenshots](#)[Skins](#)

### VLC downloaden

Version 2.2.1 • Windows • 28 MB

[Andere systemen](#)





<http://www.videolan.org/>





# VLC media player Linux



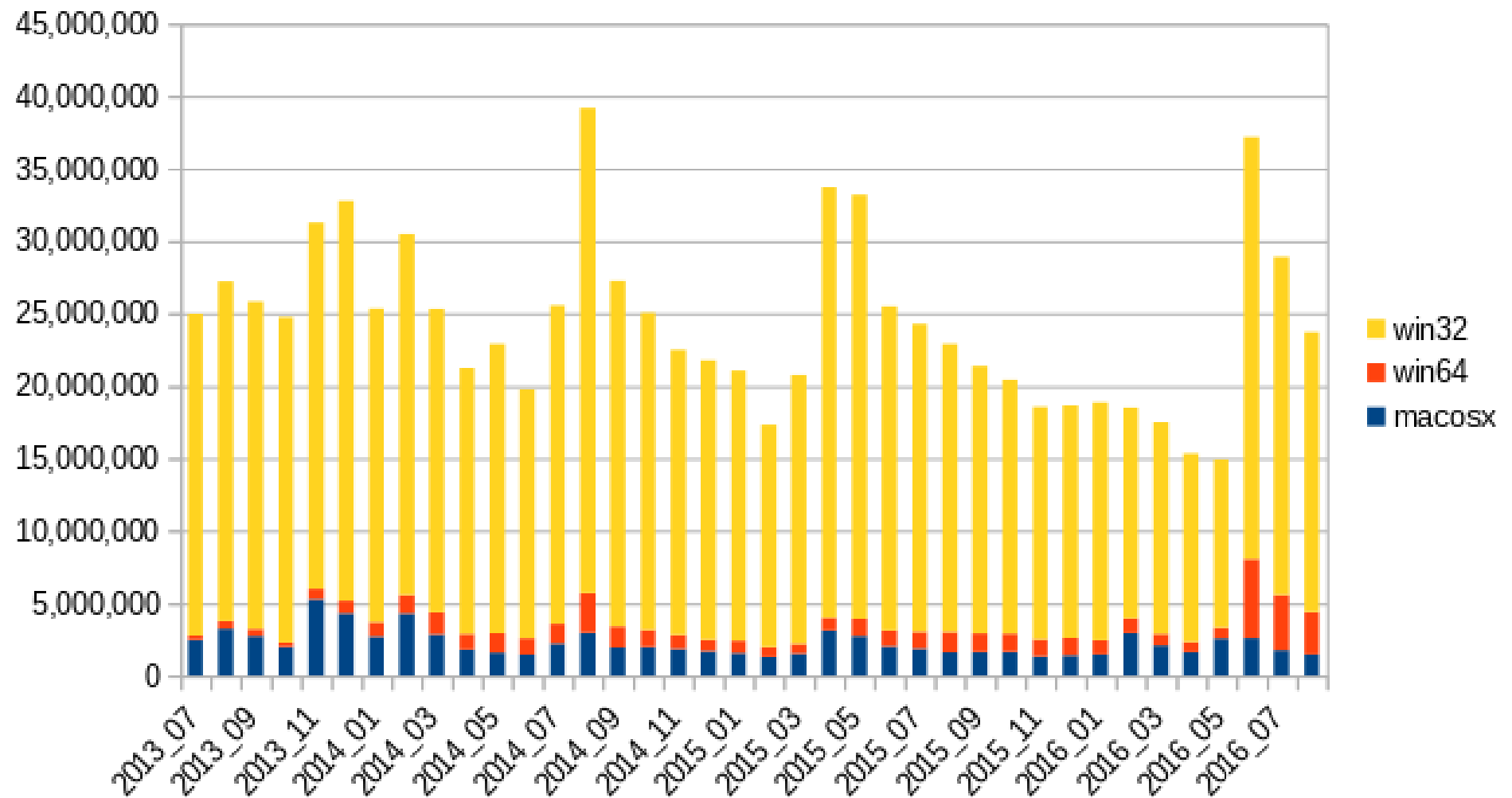
# VLC media player

## Download statistics



- 87 mirrors in 44 countries
- 900 000 downloads a day
- 180 M since 2.0.0 release
- > 1.1B over life time
- <https://github.com/etix/mirrorbits>

## VLC downloads by OSes



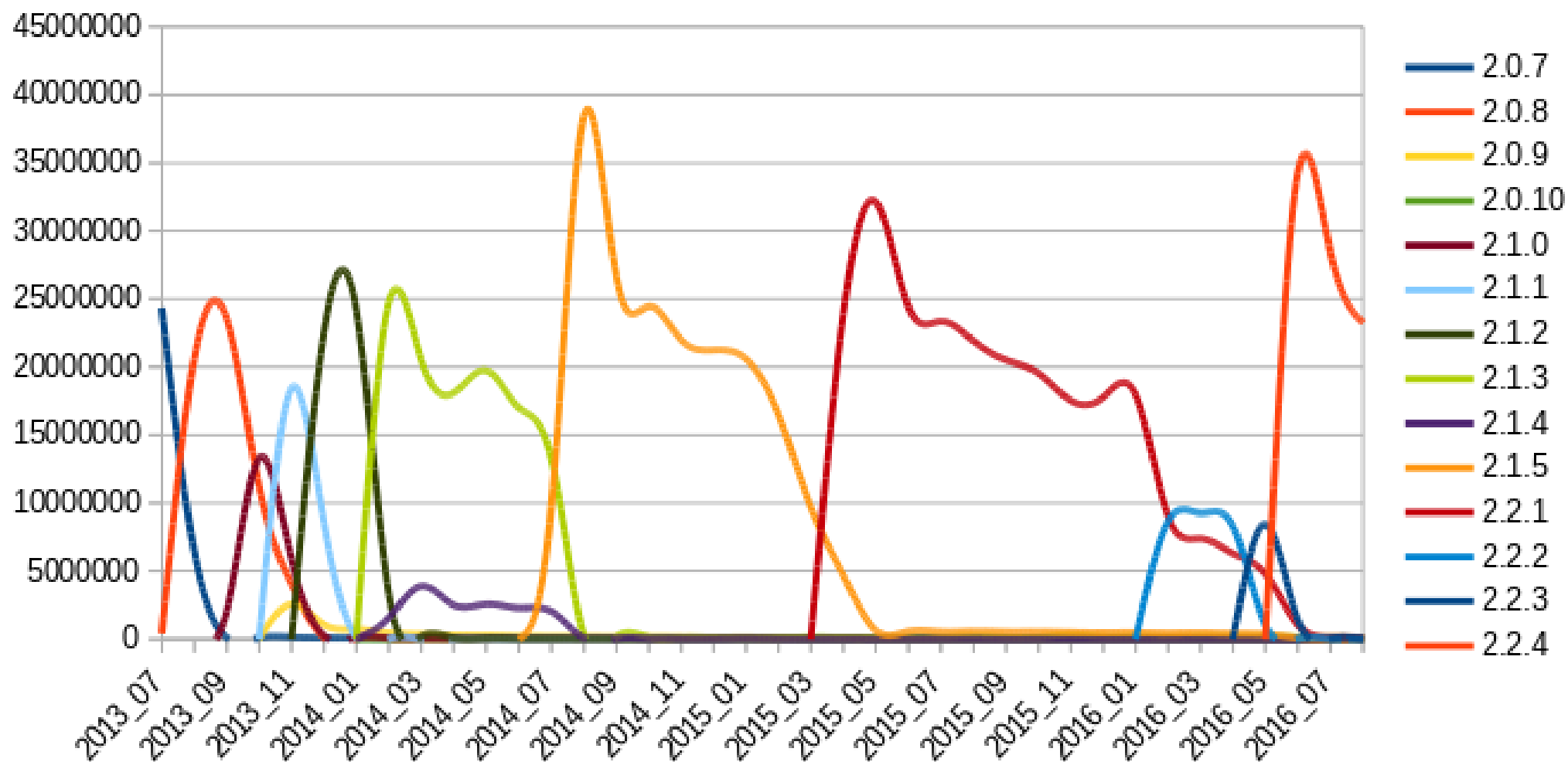


# VLC media player

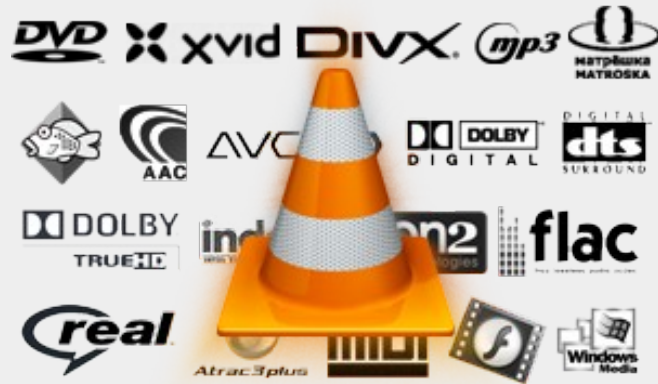
ΛΓC 46q!9 b!9Λ6L



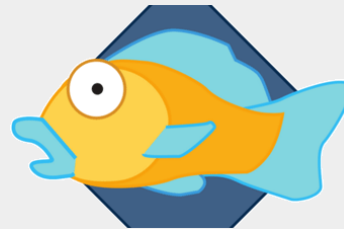
VLC downloads by version



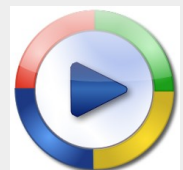
# VLC media player Formats



web-m



AVCHD



# VLC media player



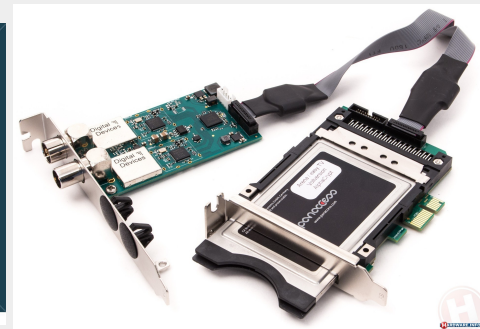
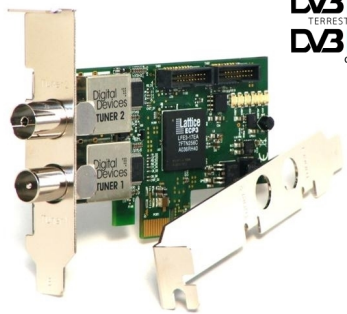
## VLC playback Features

Input formats							
Video formats	MPEG-1/2	✓	✓	✓	✓		✓
	DIVX (1/2/3)	✓	✓	✓	✓		✓
Audio formats	MPEG-4 ASP, DivX 4/5/6, XviD, 3ivX D4	✓	✓	✓	✓		✓
Subtitle/Tag formats	H.261	✓	✓	✓	?		✓
	H.263 / H.263i	✓	✓	✓	?		✓
A/V outputs	H.264 / MPEG-4 AVC	✓	✓	✓	✓		✓
	Cinepak	✓	✓	✓	✓		✓
A/V filters	Theora	✓	✓	✓	✓		✓
	Dirac / VC-2	✓	✓	✓	?		✓
Interfaces	MJPEG (A/B)	✓	✓	✓	?		✓
	WMV 1/2	✓	✓	✓	?		✓
Miscellaneous	WMV 3 / WMV-9 / VC-1	✓ <a href="#">1,2</a>	✓ <a href="#">1</a>	✓ <a href="#">1,2</a>	✓ <a href="#">1</a>		✓ <a href="#">1</a>
	Sorenson 1/3 (Quicktime)	✓	✓	✓	✓		✓
	DV (Digital Video)	✓	✓	✓	✓		✓
	On2 VP3/VP5/VP6	✓	✓	✓	?		✓
	Indeo Video v3 (IV32)	✓	✓	⚡	✓		⚡
	Indeo Video 4/5 (IV41, IV51)	✗	✗	✗	✗		✗
	Real Video 1/2	✓	✓	✓	✓		✓
	Real Video 3/4	✓	✓	✓	?		✓

1. Windows DMO codecs can be used by VLC on 32-bit x86 platforms and allow WMV-3/WMA-3 decoding. This feature is untested on Intel-based Macs.

✓ = Yes    ⚡ = Partial    ✗ = No    ? = Untested

# VLC media player Hardware





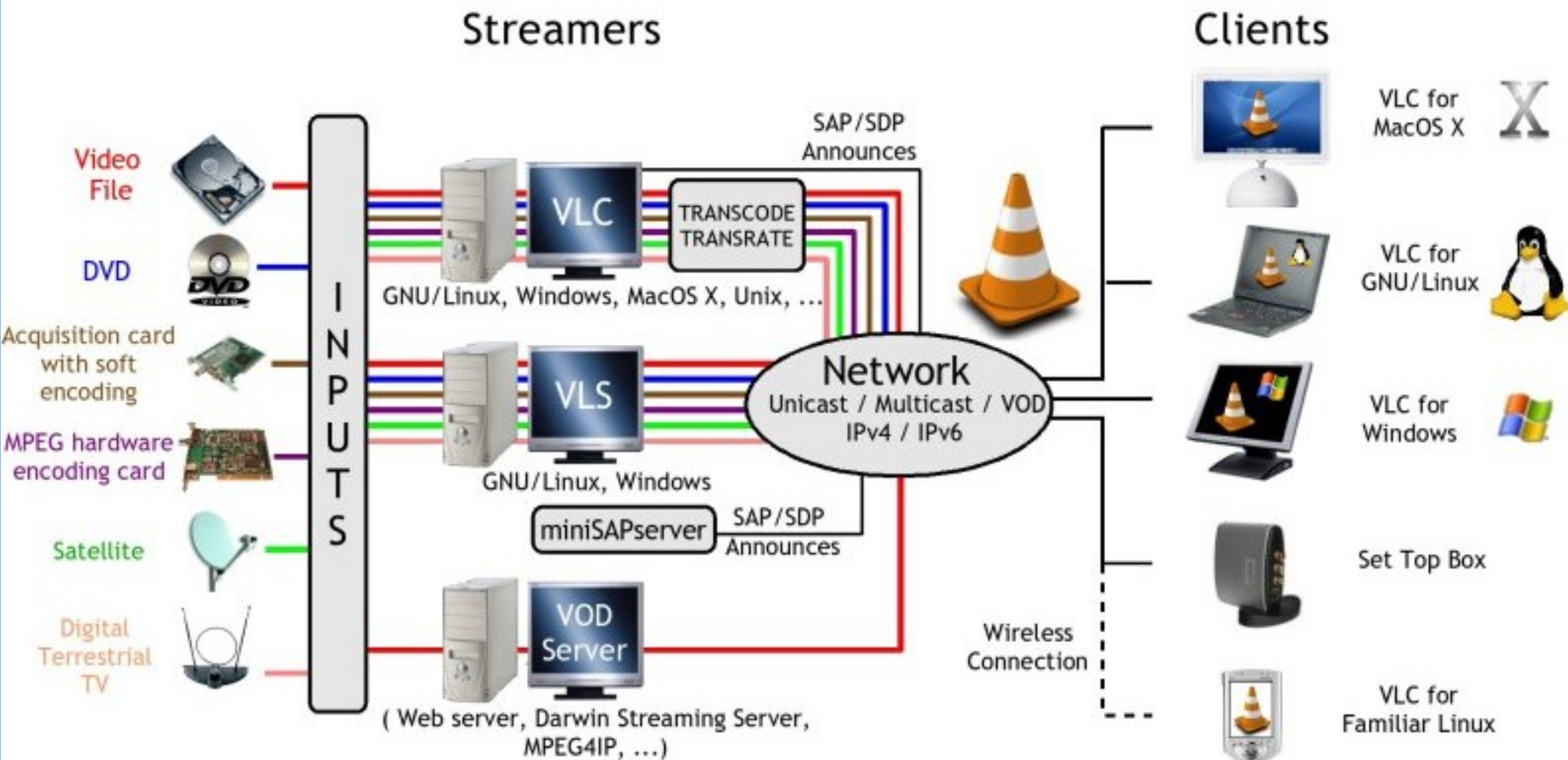
# VLC media player



# VLC media player



## VideoLAN Streaming Solution



# VLC media player

## License



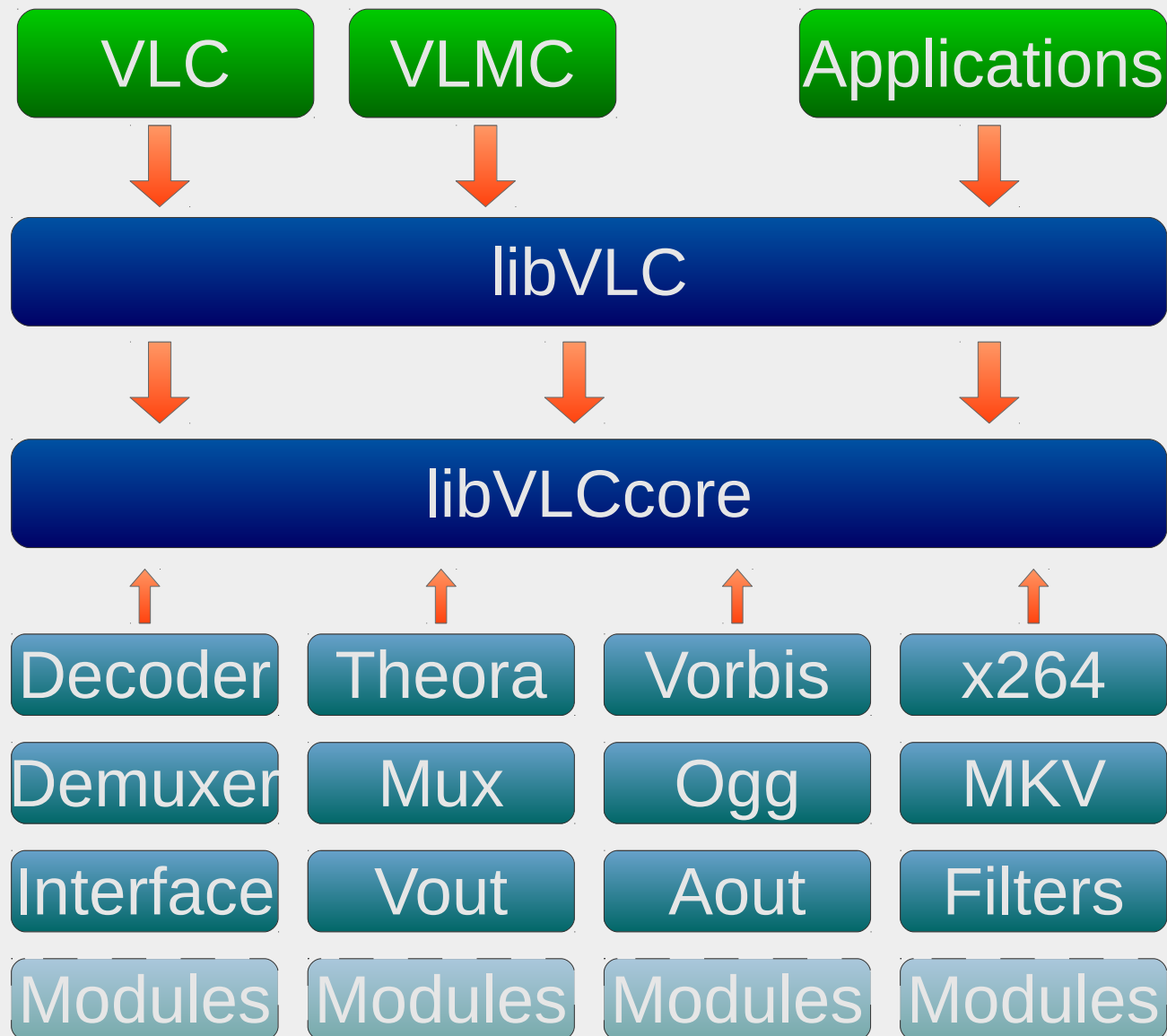
# VLC media player License



- VLC engine is released under LGPL
  - Core licensed under GNU Lesser Public License version 2 (or later)
  - Interfaces licensed under GNU Public License version 2 (or later)
  - Language bindings LGPL version 2 (or later)
  - Most modules licensed under LGPL version 2 (or later)



# VLC media player



# VLC media player Architecture



- libVLCcore
  - Small core
  - Light
  - Memory, network and threading handling
  - Module loading
  - Clock / Synchronization

# VLC media player

## Architecture



- libVLC
  - Simple multimedia framework
  - Language bindings
    - C++
    - C#
    - Java
    - Lua
    - Objective-C
    - Python
    - Perl

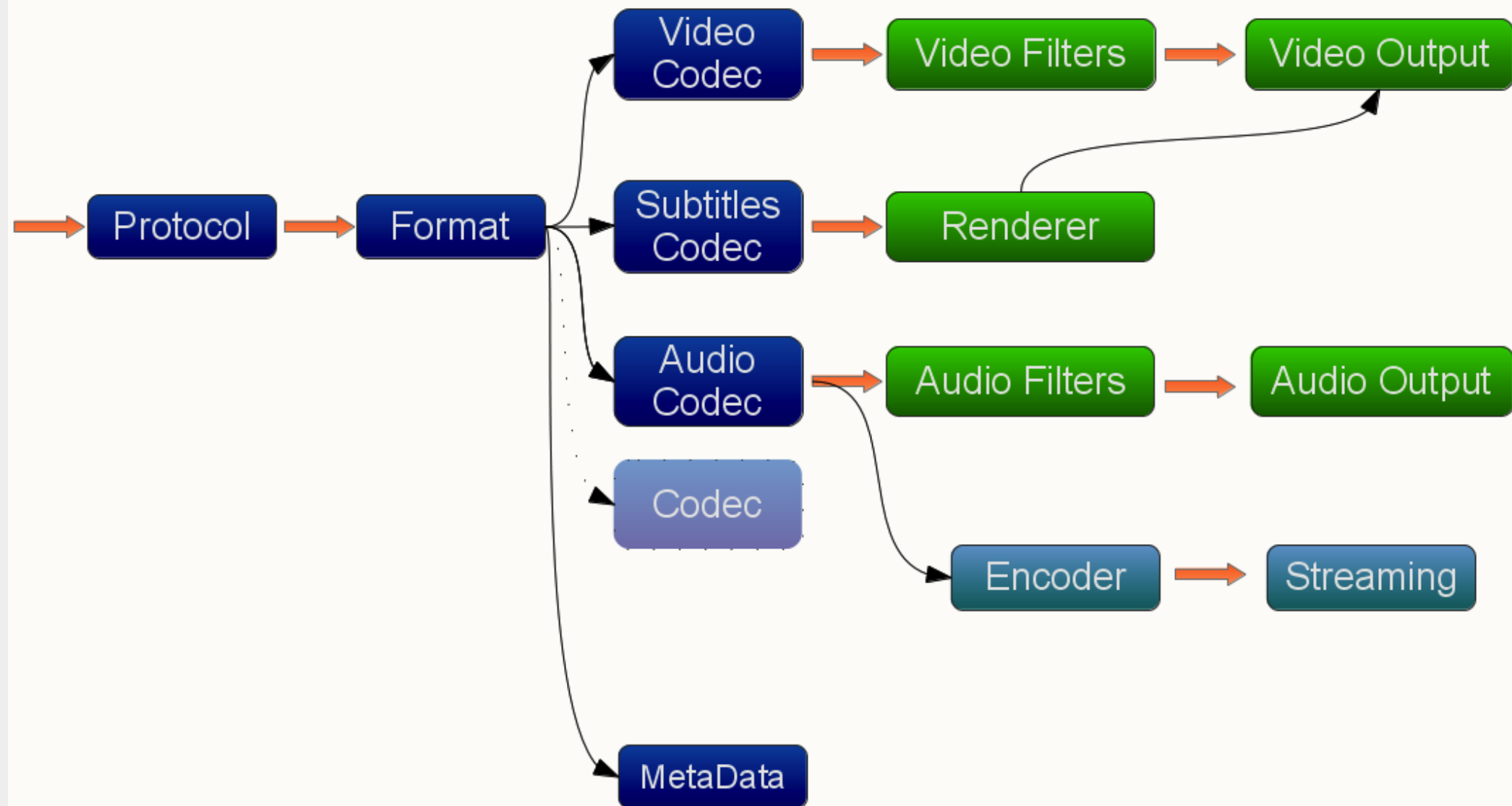
# VLC media player

## Architecture



- Completely modularized
  - Around 300 modules in desktop installation
  - Features separated in modules
    - Codecs (audio/video)
    - Subtitles
    - Filters
    - Muxers / Demuxers, etc
  - Adding new feature?
    - Add a new module

# VLC media player Architecture



# VLC media player Extensions



- Automatic subtitles downloading
- Context information from:
  - Wikipedia, IMDB
- Sharing on twitter
- Written in LUA
- Where to publish or get them?
  - [addons.videolan.org](http://addons.videolan.org)

# VLC media player

## Service Discovery

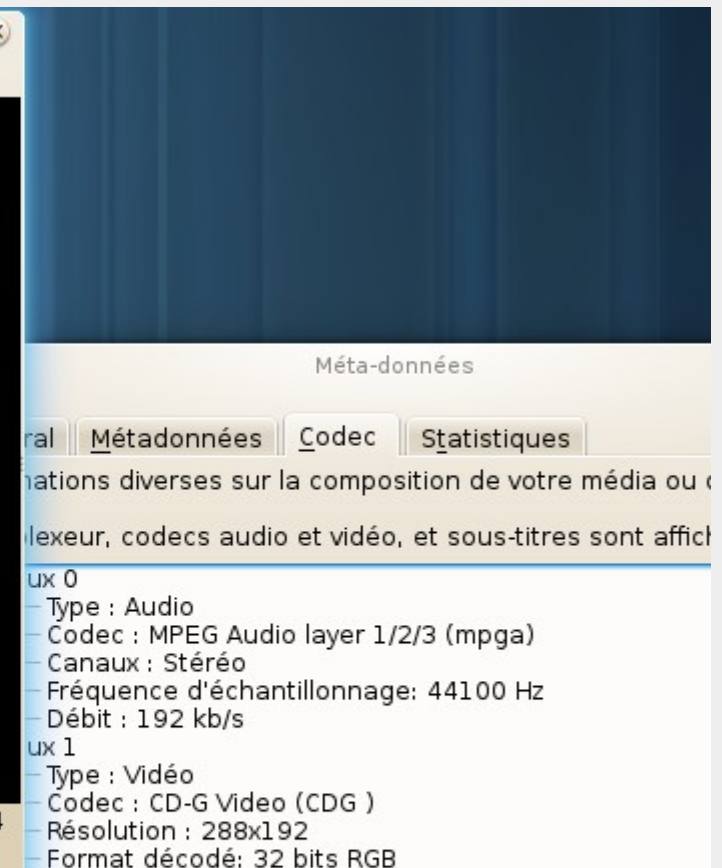
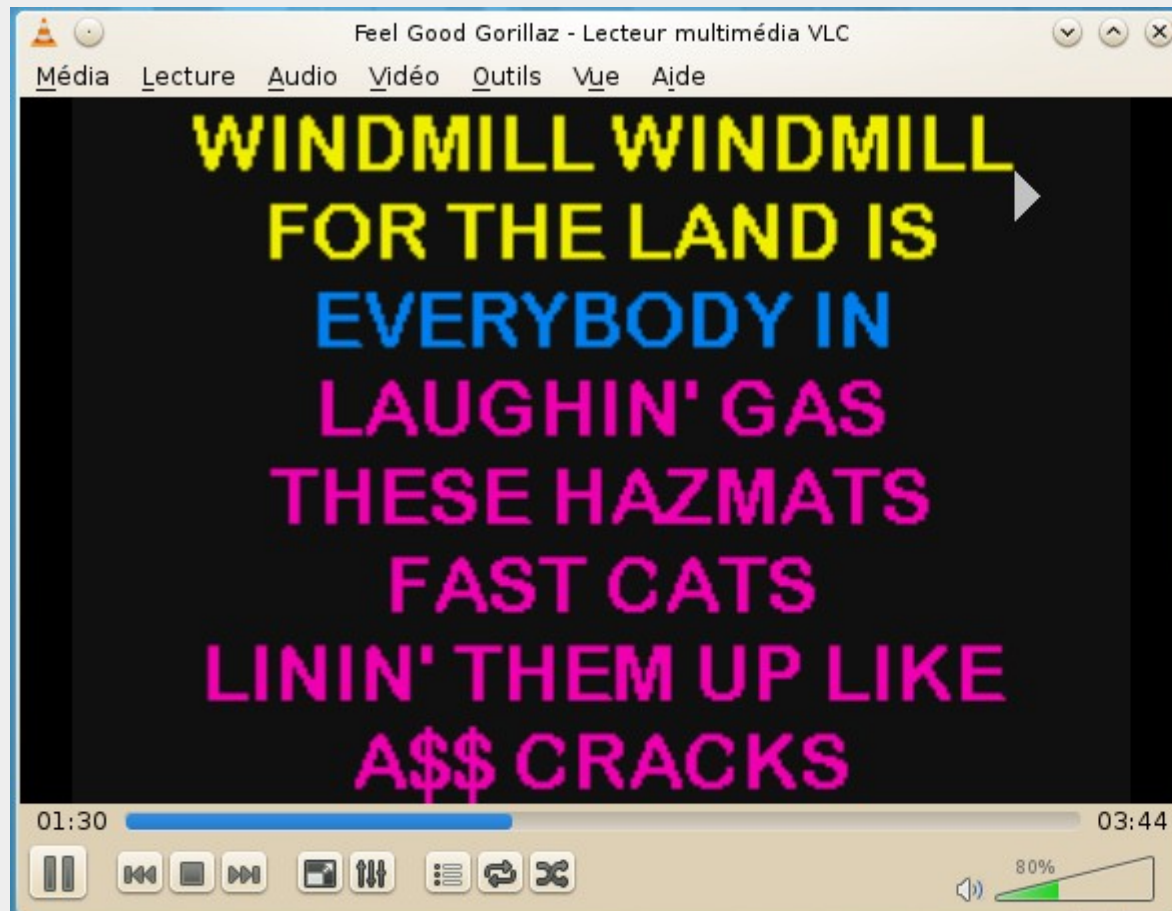


- Automatic media detection
  - Local files
  - Network services
    - UPnP
    - DLNA
  - Internet services
    - YouTube
    - Dailymotion
    - Vimeo
    - Apple Trailers



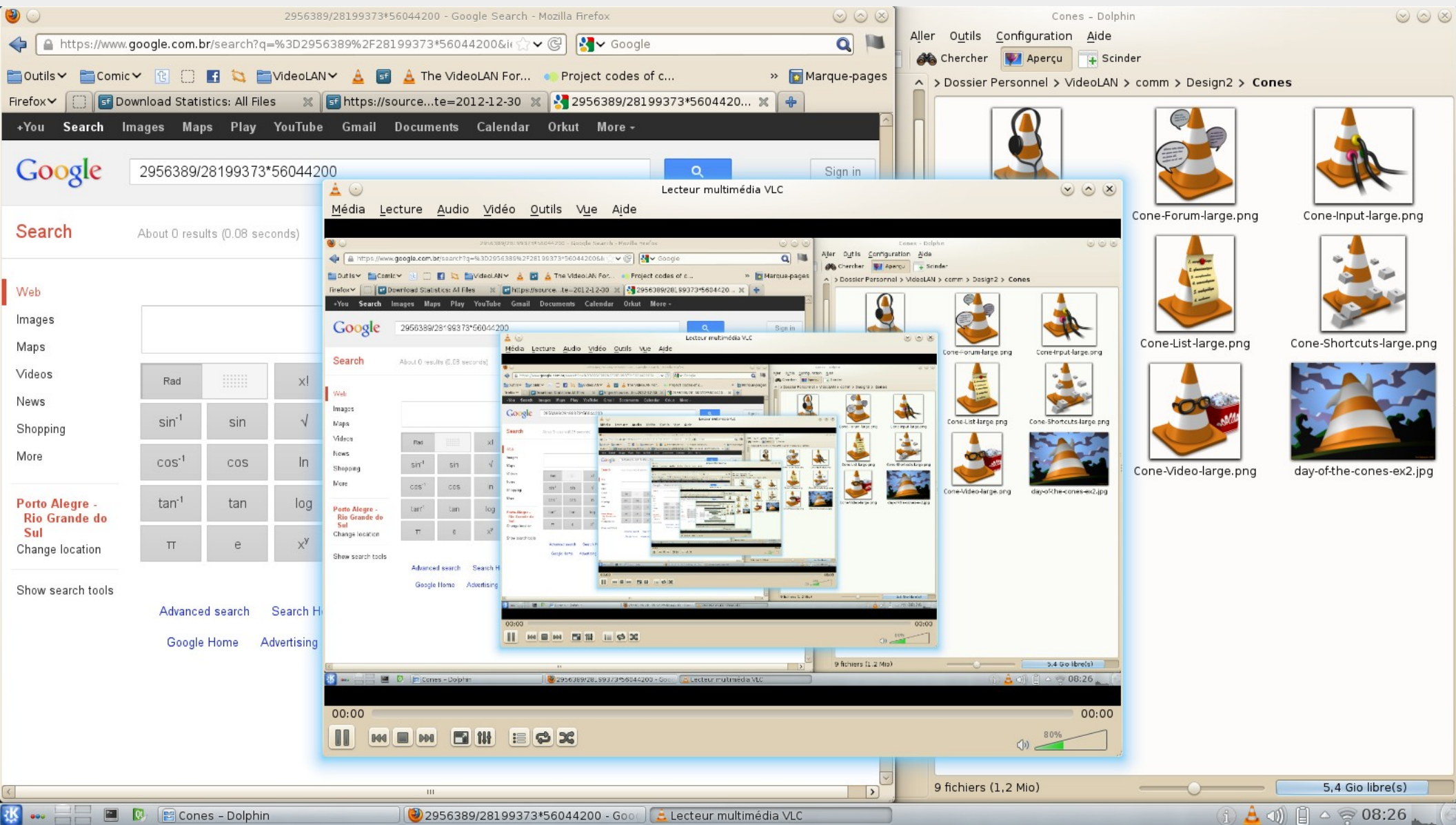
# VLC media player

## Karaoke



# VLC media player

## Screen casting



# VLC media player Picture in Picture





# VLC media player

## Mosaic



Mosaïque

freeboxTV



2 FRANCE 2



3 FRANCE 3



5 FRANCE 5



6 EURONEWS



7 ARTE



8 DIRECT 8



9 W9



11 NT1



12 NRJ 12



13 LCP



14 FRANCE 4



16 RTL9



17 AB 1



18 TV5



19 PARIS PRE...



20 BLOOMBERG



21 CNBC



22 FRANCE Ô



23 DEMAIN !



25 CNN



Sélection



OK Valider



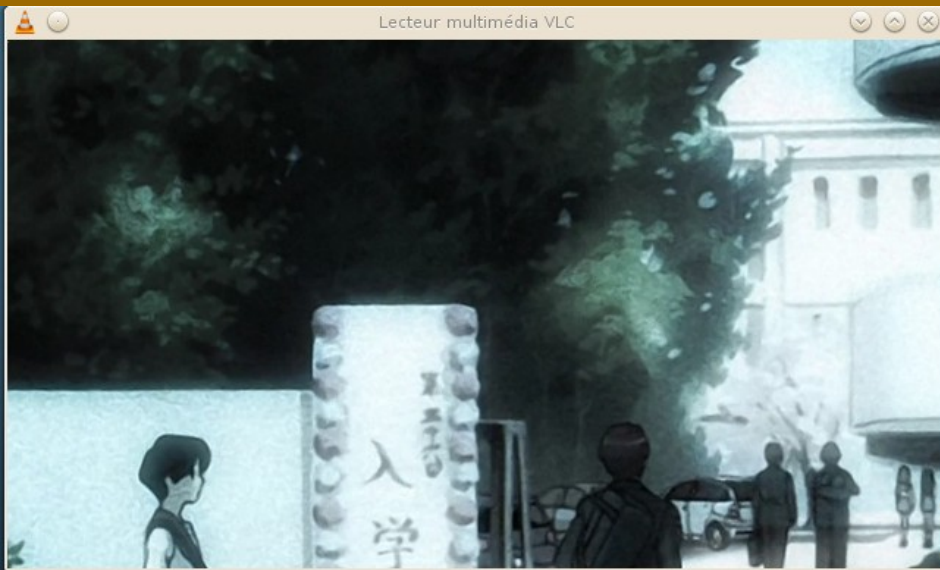
Précédent



Suivant

# VLC media player

## Wall filter and netsync



inchoy of Haru  
Aide



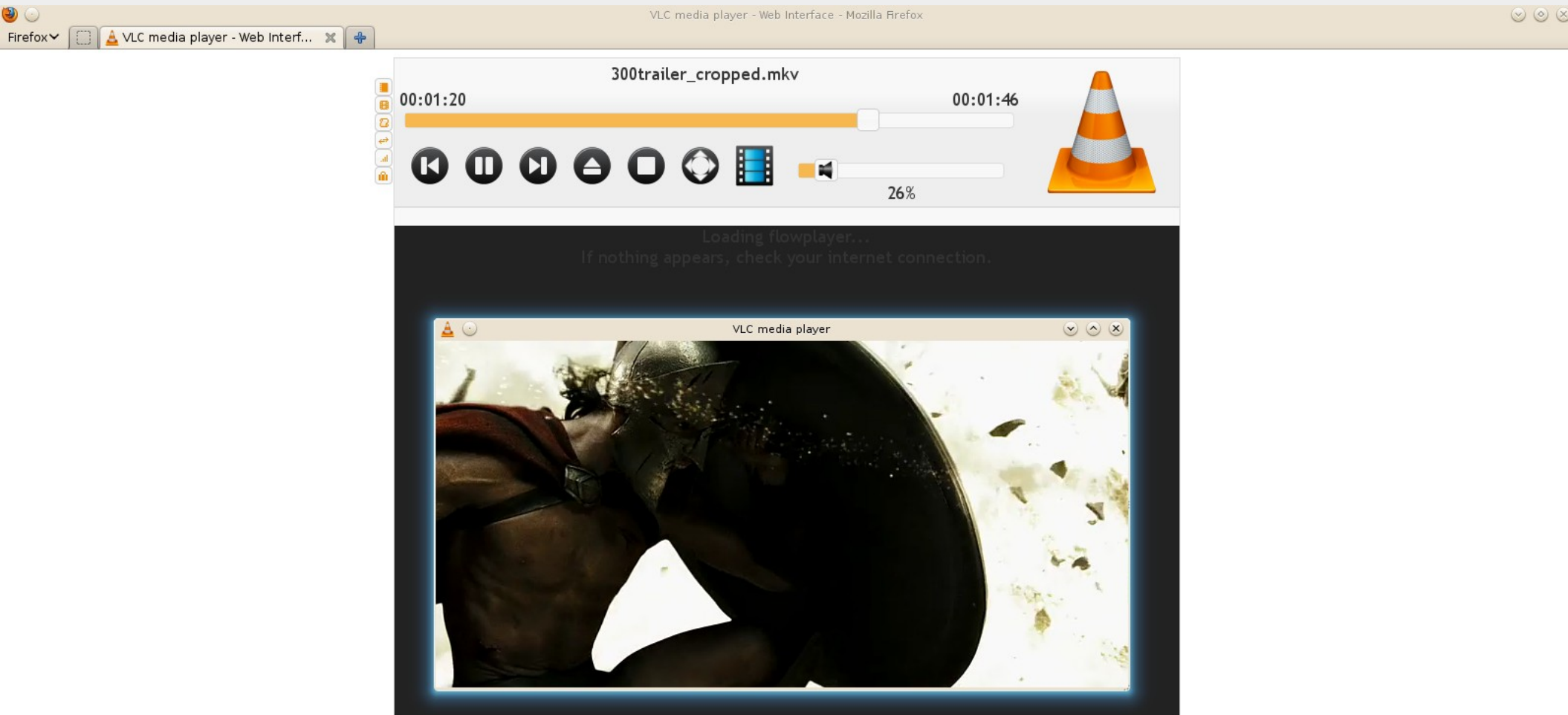


# VLC media player

## Color ASCII



# VLC media player Webinterface

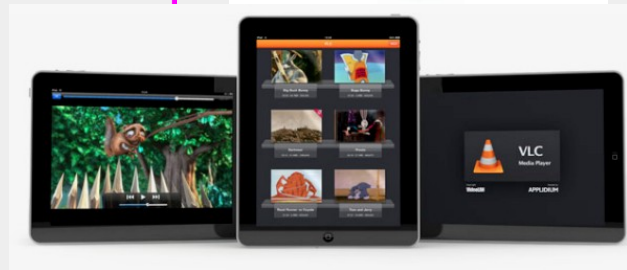
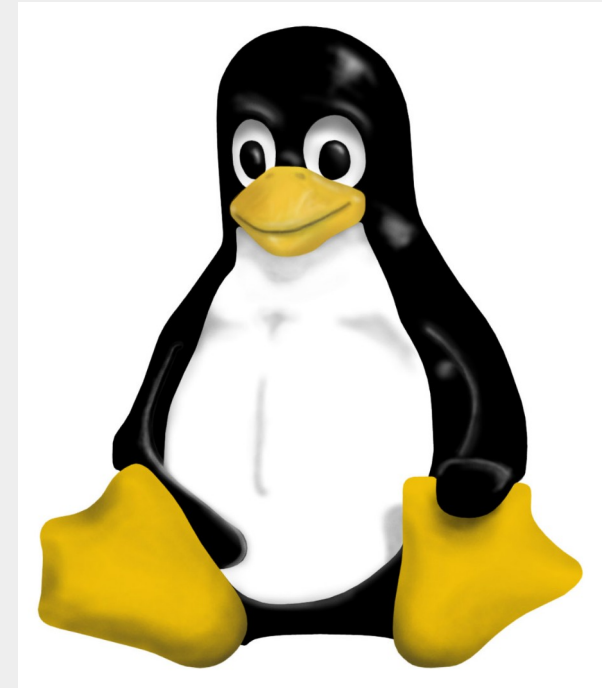




# VLC media player Skins



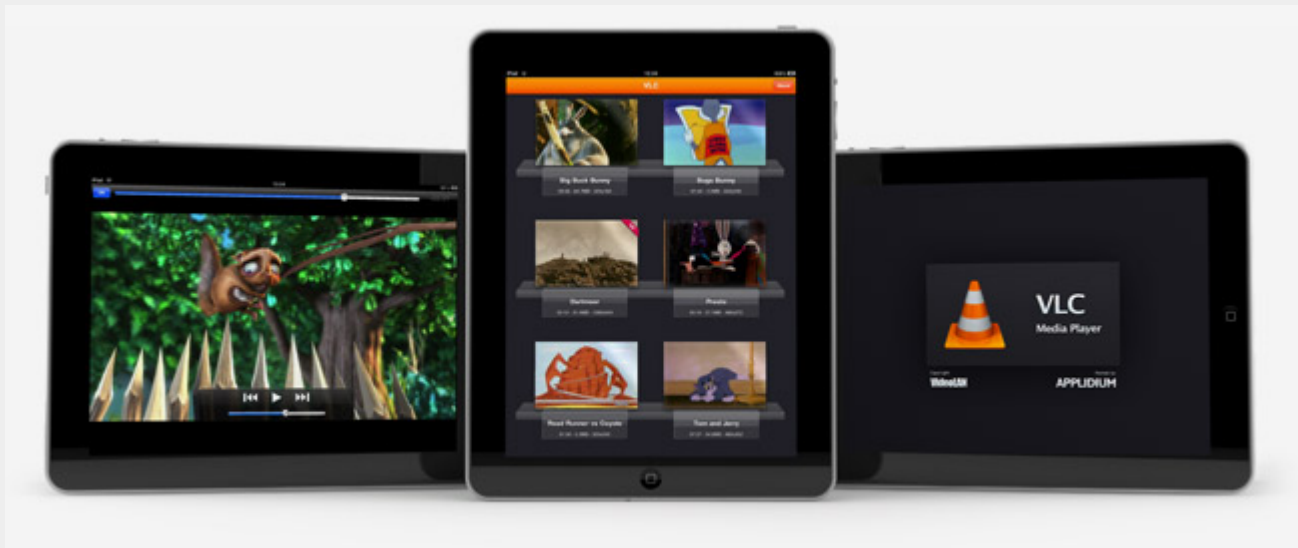
# VLC media player Available for ...



# VLC media player Linux



# VLC media player iOS

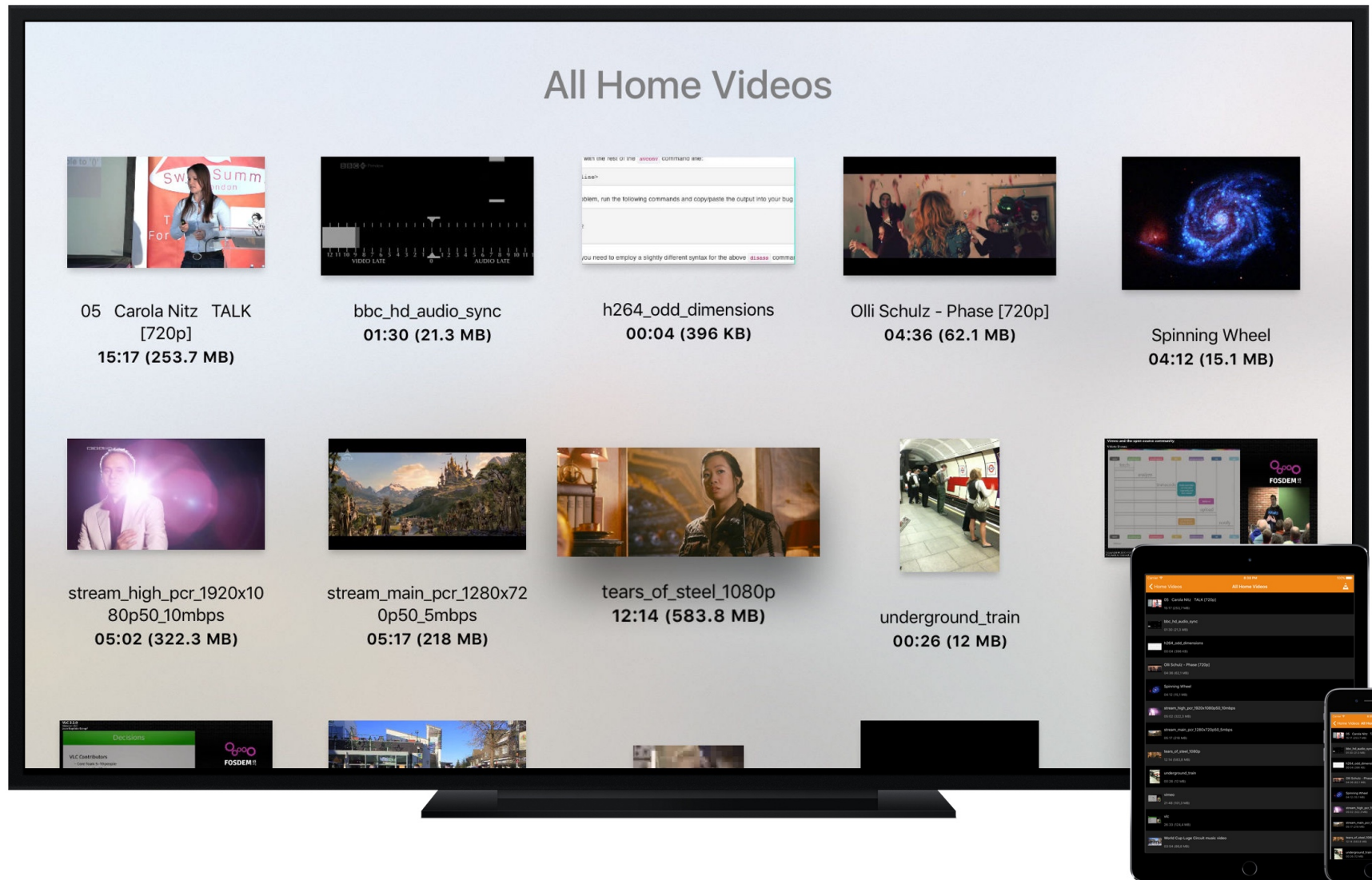




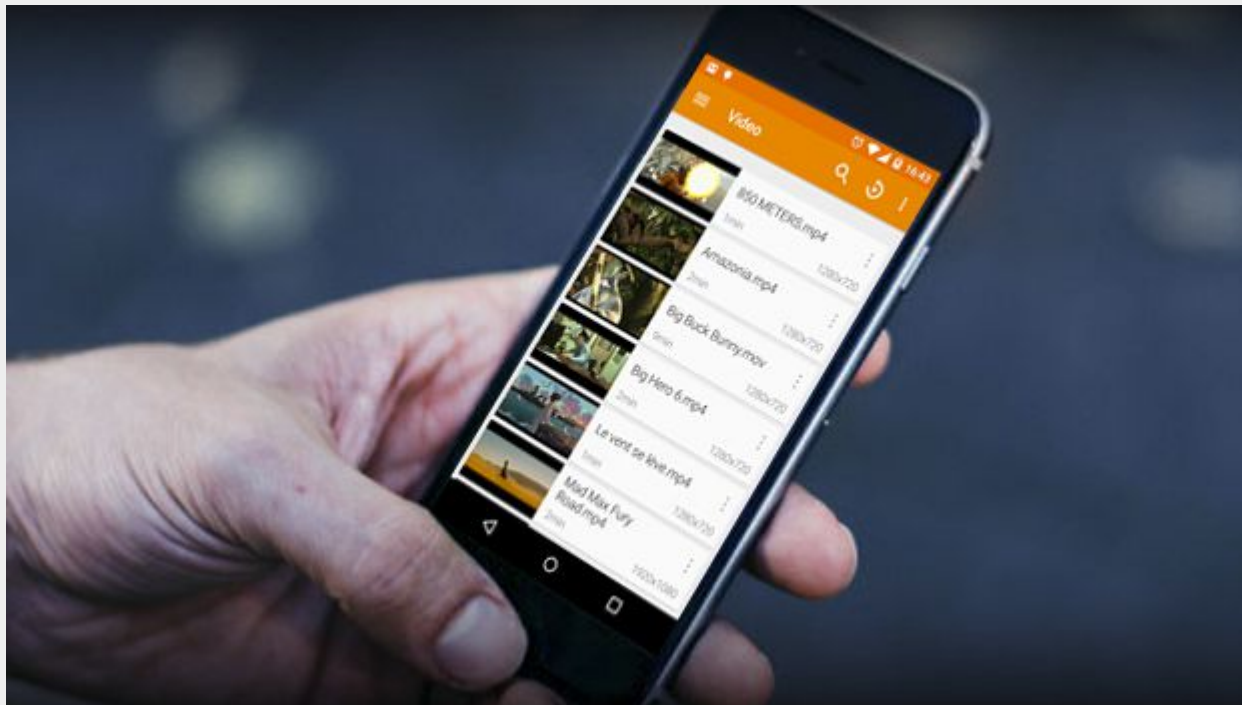
# VLC media player watchOS



# VLC media player Apple TV (tvOS)

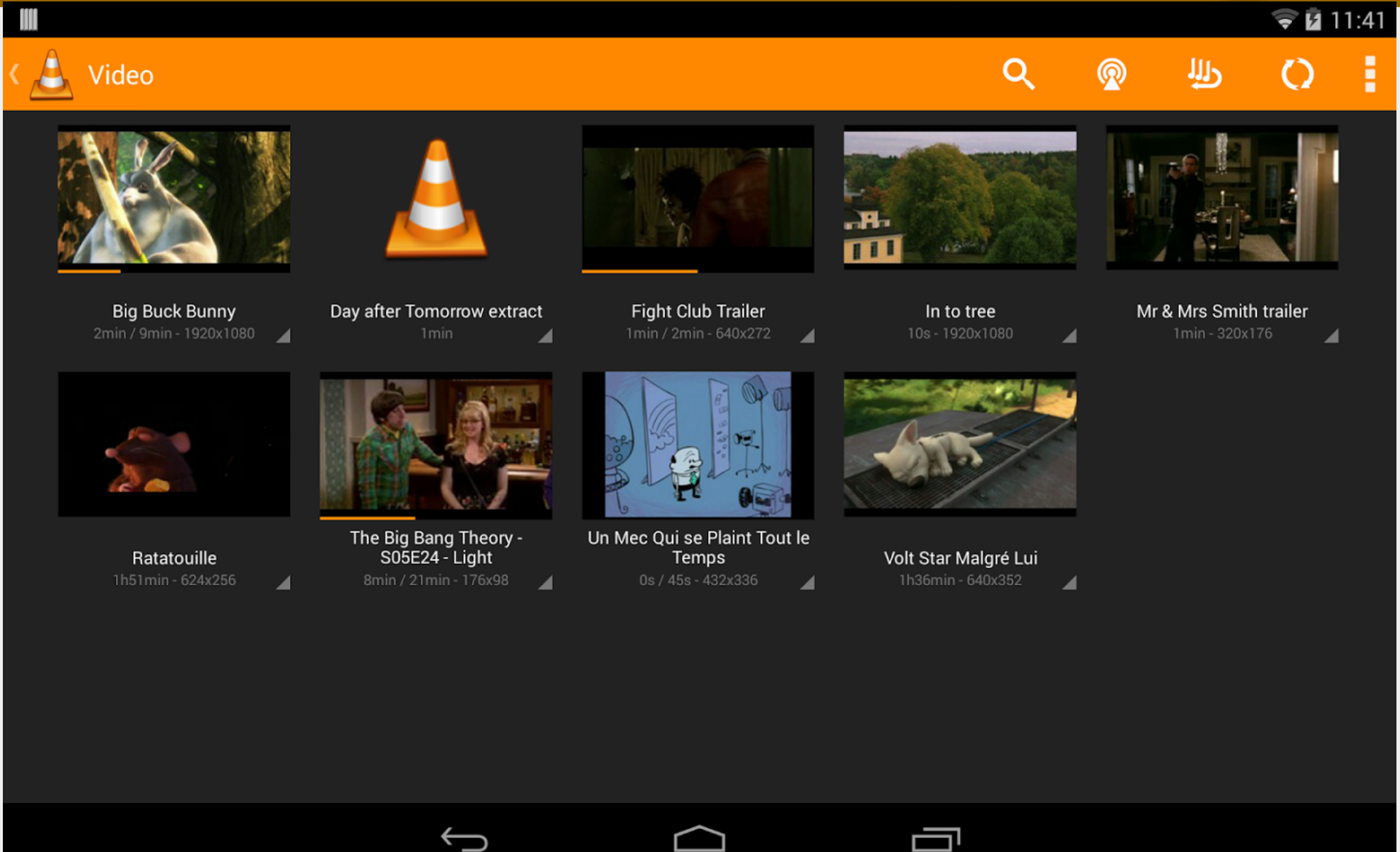


# VLC media player Android phone

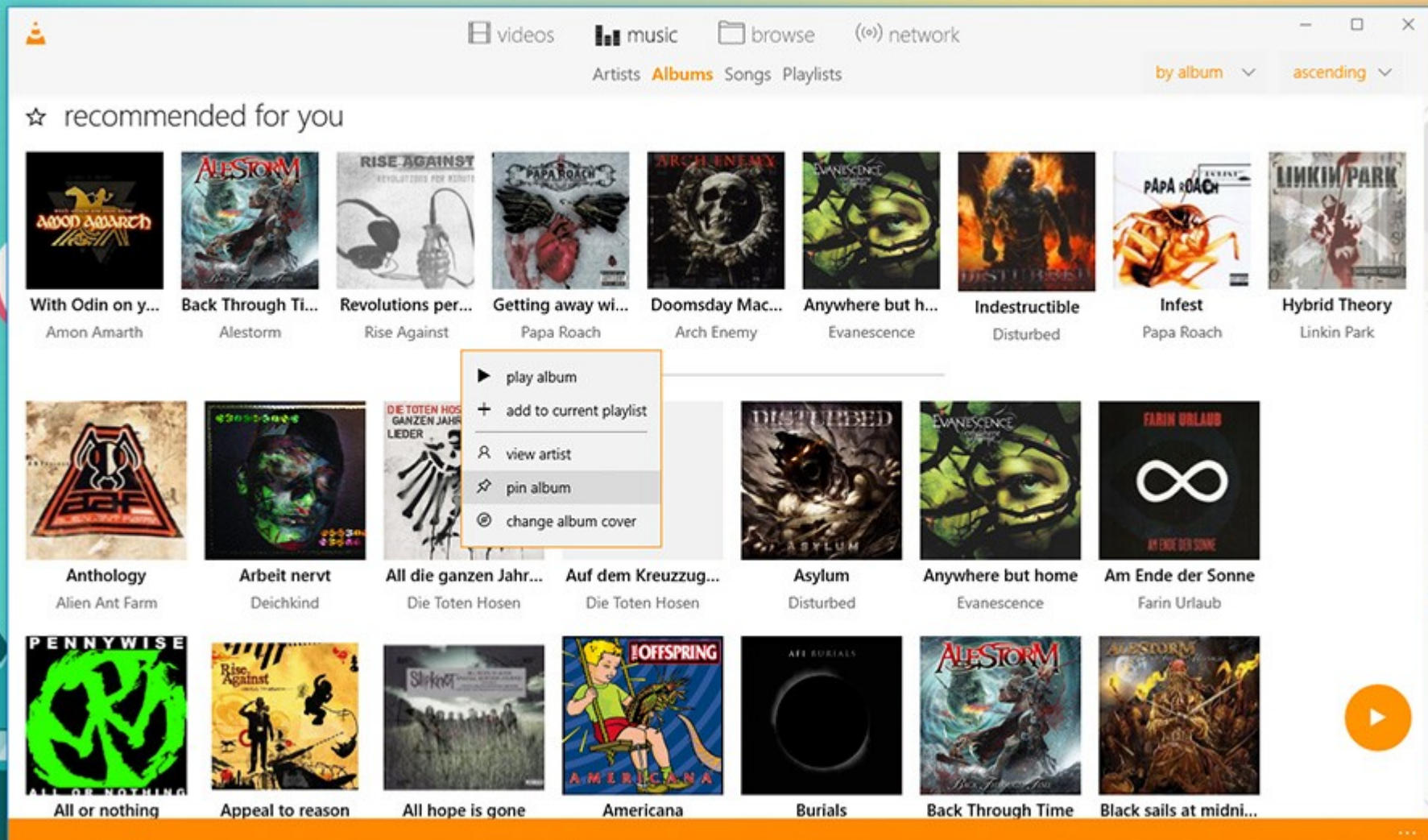




# VLC media player Android

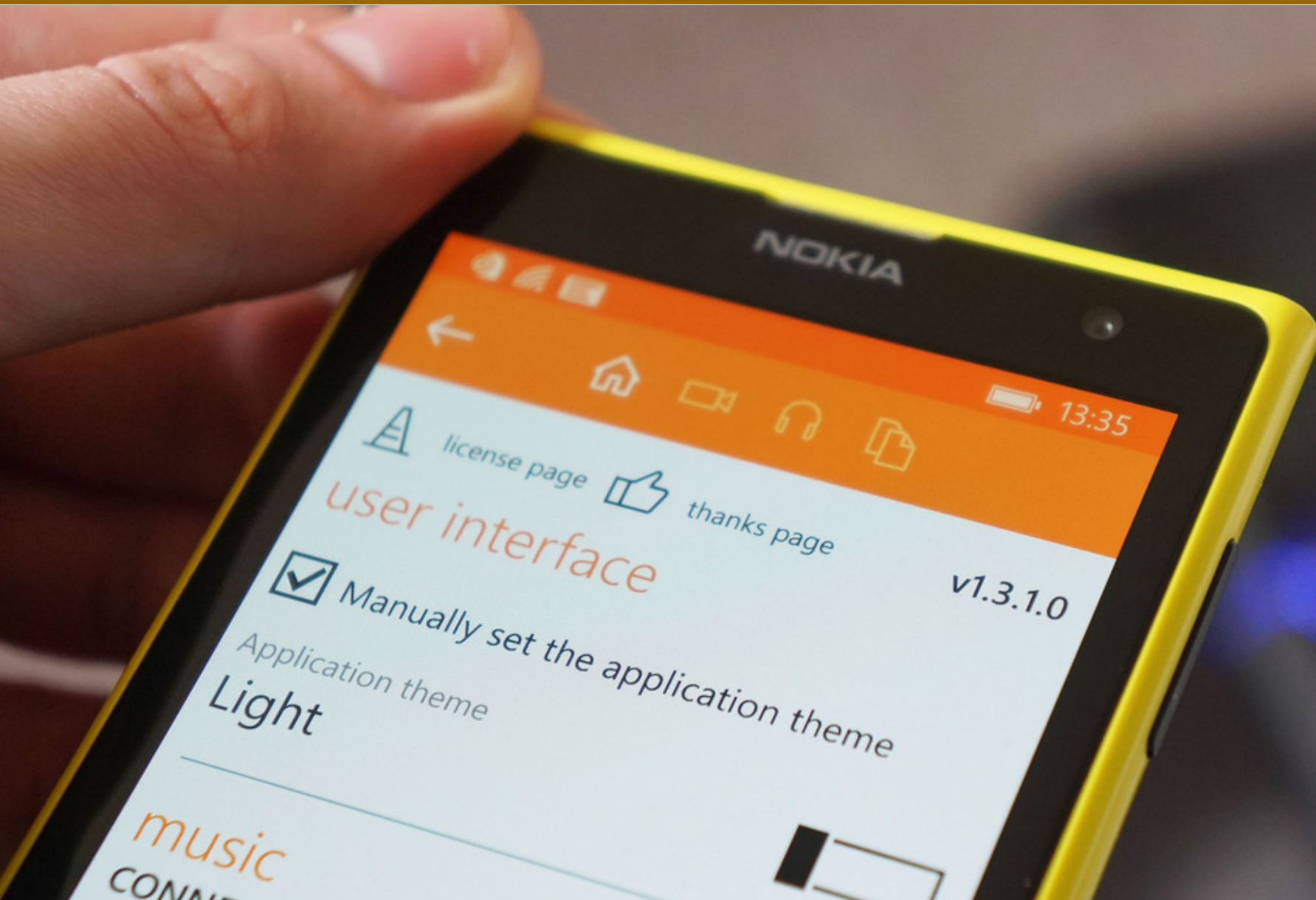


# VLC media player Windows



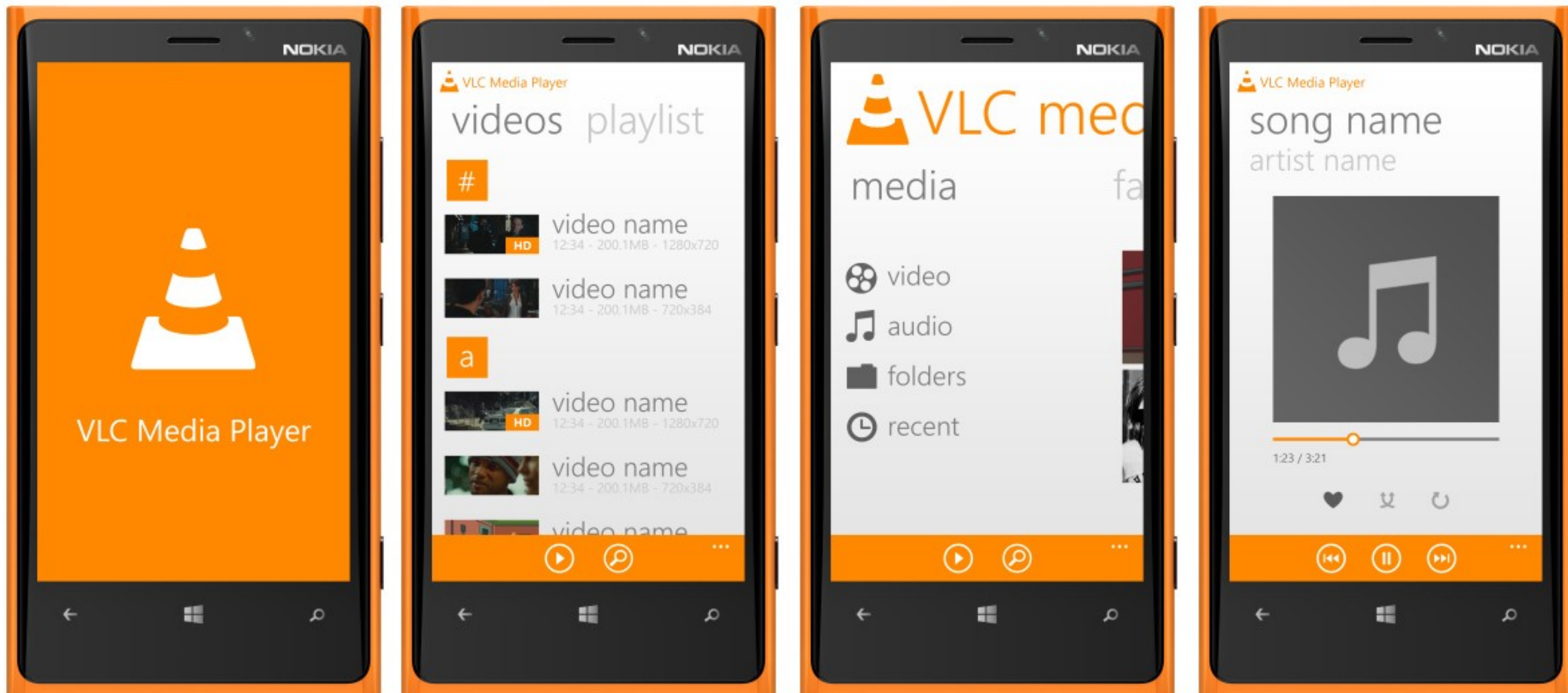


# VLC media player Windows phone



# VLC media player

## Windows phone



# VLC media player



Questions ?

