

# VideoLAN



VLC 1.0

By

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# Jean-Paul Saman



- 2001: member of VideoLAN team
- iPAQ H3600/3800/3900 port (ARM cpu)
- Ti Davinci port (ARM cpu)
- DVB C/S/T
- DV Camcorder input (1394/iLINK/Firewire)
- Various ...

# History



- 2001: VLC released under GPLv2
- 2003: VLC gains streaming capabilities
- 2003: Runner up Apple Design Award
- 2004: Open Source Merit Award
- 2008: Wins Tim Award (PC Welt)
- 2008: First VideoLAN Developer Days

# VLC





Is it a bird?



No it is not.



Is it a media player?



Yes it is.



# VLC



- Supports more than 50 languages
  - English
  - German
  - French
  - Dutch
  - Spanish
  - Chinese
  - .. and more ...

# VLC



- Supports various operating systems
  - Linux
  - MacOS X
  - Windows
  - \*BSD
  - BeOS
  - Windows CE/Pocket PC (EXPERIMENTAL)
  - ... and more ...

# VLC



- Supports various hardware
  - Webcams
  - DV camcorders (1394/iLINK/Firewire)
  - DC cameras
  - Network cameras
  - Encoder cards (PVR, etc.)
  - Satelite (DVB-C/S/T)

# VLC



- Files
- DVD
- VCD
- CDROM
- Network Streams
  - HTTP
  - RTSP
  - Unicast, broadcast, multicast (udp, rtp)

# Interface



- Qt based User Interface
  - Windows
  - Linux
- MacOS X
- Webbased
- Customizable interface (skins2)
- Remote control
  - Infrared (lirc, apple remote)
  - telnet

# Qt Interface



Media Playback Audio Video Tools View Help big\_buck\_bunny\_720p\_h264.ts - VLC media player



Media playback controls including play/pause, stop, previous, next, full screen, playlist, and equalizer buttons. A progress bar is visible above the buttons. On the right side, there is a volume control icon showing 100% volume.

big\_buck\_bunny\_720p\_h264.ts 1.00x 00:00/00:00

# Customize Qt Interface



**Toolbars Editor**

**Toolbar Elements**

Play Stop Open Previous

Next Slower Faster Fullscreen

De-Fullscreen Extended panel

Playlist Snapshot Record

A->B Loop Frame By Frame

Next widget style:  Flat Button  Big Button  
 Native Slider

**Main Toolbar**

Toolbar position: Under the Video

Line 1: [Icons] 100

Line 2: [Icons]

Advanced Widget toolbar: [Icons]

**Time Toolbar**

[Slider]

**Fullscreen Controller**

[Icons]

**Profile**

Select profile: [Dropdown] [Add] [Remove]

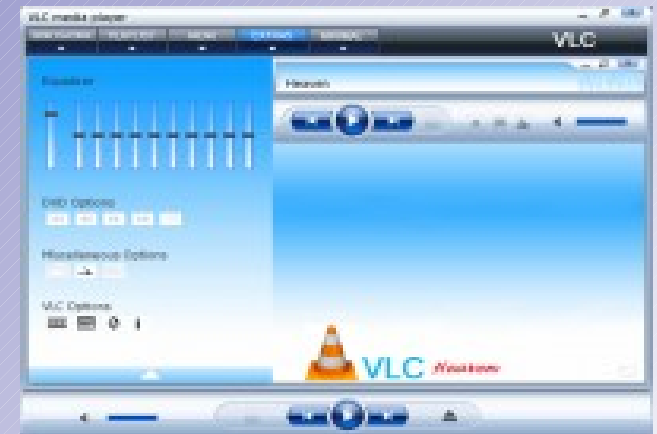
Cancel Close

# MacOS X interface





# Skins2



# Scripting (lua)



- Apple trailers
- BBC
- Canal Plus
- Daily Motion
- France 2
- GoogleVideo
- Joox
- Mega Video
- YouTube

# Effects



Adjustments and Effects

Audio Effects | **Video Effects** | Synchronization | v4l2 controls

Basic | Crop | Geometry | Color fun | Image modification | Vout/ < >

**Image adjust**

Hue

Contrast

Brightness

Saturation

Gamma

Brightness threshold

**Sharpen**

Sigma

**Transform**

Rotate by 90 degree | ↕

Close

# What is new in 1.0?



- Instantaneous pausing
- Frame by frame playback
- Blu-ray
- Timeshift for most medias
- On-the-fly recording of all medias
- RTSP trickplay support
- RTSP Darwin Streaming Server support

# What is new in 1.0?



- Dirac encoder/decoder
- WMA 1,2 fixed integer decoder
- Shine MP3 fixed integer encoder
- DVB scanning on Linux
- On-the-fly gzip, bzip2 decompression (except on windows)
- Global hotkeys (windows, linux)

# Teletext



# What is new in 1.0?



- New languages
  - Khmer
  - Mongolian
  - Sorani

# What is changed?



- No MacOS X 10.4 support
- Finer speed control
- Alsa and OSS audio capture has been removed from video4linux (v4l, v4l2)input
  - Use `--input-slave alsa://` or `oss://` if needed.
- Subtitle core improvements
- Effects (cube, torus, etc.) removed from OpenGL
- Bug fixes ....



# Codec support



## Input formats

### Video formats

### Audio formats

### Subtitle/Tag formats

### A/V outputs

### A/V filters

### Interfaces

### Miscellaneous

<b>Input media</b>						
UDP/RTP Unicast	✓	✓	✓	✓	✓	✓
UDP/RTP Multicast	✓	✓	✓	✗	✓	✓
HTTP / FTP	✓	✓	✓	✓	✓	✓
MMS	✓	✓	✓	✓	✓	✓
TCP/RTP Unicast	✓	✓	✓	✓	✓	✓
DCCP/RTP Unicast	✗	✗	✓	✗	✗	?
File	✓	✓	✓	✓	✓	✓
DVD Video <sup>1</sup>	✓	✓	✓	✓	✓	-
Video CD / VCD	✓	✓	✓	✗	✓	-
SVCD <sup>2</sup>	⊖	⊖	⊖	✗	⊖	-
Audio CD (no DTS-CD)	✓	✓	✓	✗	✓	-
DVB (Satellite, Digital TV, Cable TV)	✓	✗	✓	✓	✗	-
MPEG encoder <sup>3</sup>	✓	✗	✓	✗	✗	-
Video acquisition	✓ Direct Show	⊖ iSight, EyeTV <sup>4</sup>	✓ V4L, V4L2	✗	✗	? V4L, V4L2
<b>Input formats</b>						
MPEG (ES,PS,TS,PVA,MP3)	✓	✓	✓	✓	✓	✓
AVI	✓	✓	✓	✓	✓	✓
ASF / WMV / WMA	✓	✓	✓	✓	✓	✓
MP4 / MOV / 3GP	✓	✓	✓	✓	✓	✓
OGG / OGM / Annodex	✓	✓	✓	✓	✓	✓
Matroska (MKV)	✓	✓	✓	✓	✓	✓
Real	⊖	⊖	⊖	⊖	⊖	⊖
WAV (including DTS)	✓	✓	✓	✓	✓	✓
Raw Audio: DTS, AAC, AC3/A52	✓	✓	✓	✓	✓	✓
Raw DV	✓	✓	✓	✓	✓	✓
FLAC	✓	✓	✓	✓	✓	✓
FLV (Flash)	✓	✓	✓	?	✓	?
MXF	✓	✓	✓	?	✓	?
Nut	✓	✓	✓	?	✓	?
Standard MIDI / SMF	?	✓	?	?	?	?
Creative™ Voice	✓	✓	✓	✓	✓	✓





Is it a server?

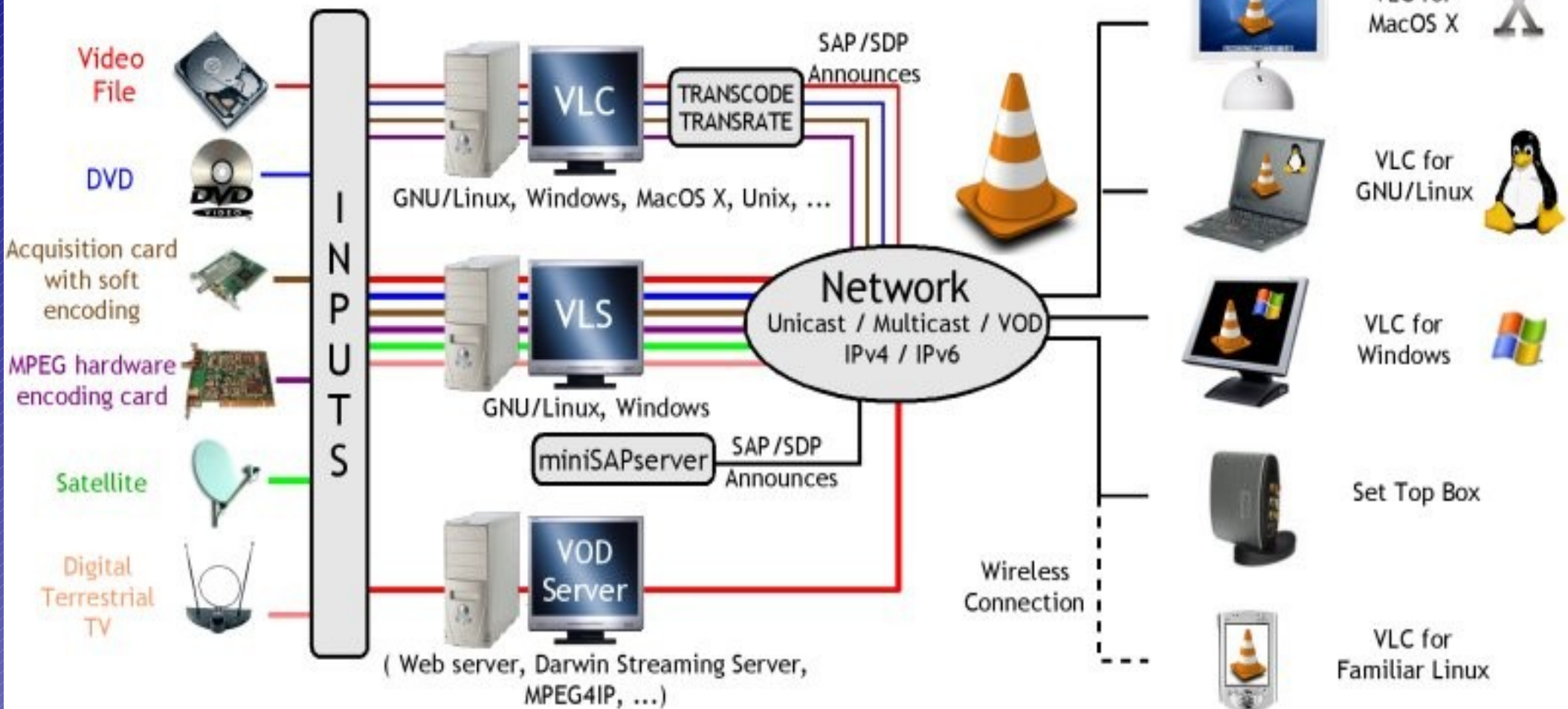


Yes it is.



## Streamers

## Clients





Is it a framework?



Yes it is.



[www.videolan.org](http://www.videolan.org)

