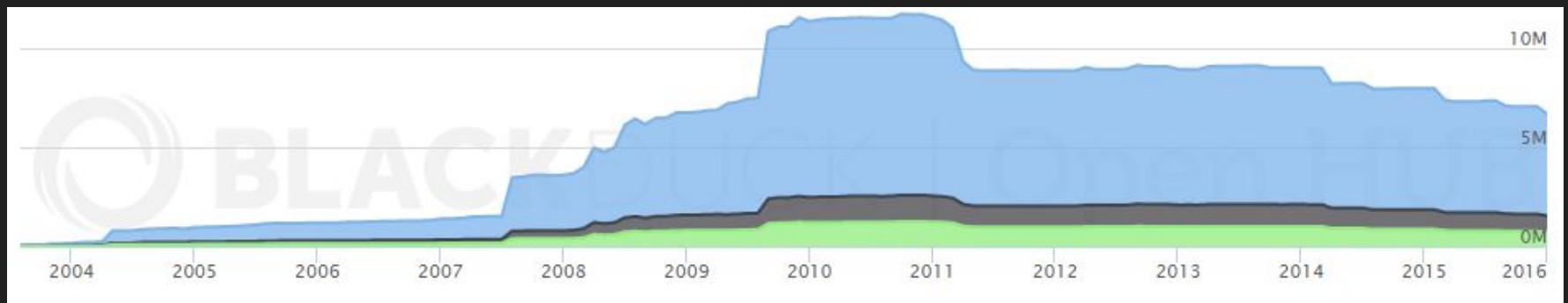The near future…...

Current goals

Release Early Release Often

Loosing code makes us better

Why loosing code?

Improved code quality

Don't duplicate code

Using new code methods like C++11

Remove obsolete libraries

Dropping unmaintained code parts

Don't have to maintain code you don't have

Move functions towards binary add-ons

- Audio encoders/decoders
- Visualisations
- Screensavers
- More will follow

V16
Jarvis

Soon to be released

v16 Jarvis - Main improvements

- Upgrade from DirectX 9 to DirectX 11 API
- Image resource add-ons
- Music library improvements
- Button long-press
- Stereoscopic depth for user interface
- Surface rendering for video on Android
- Goodbye libstagefright on Android
- Continues improvements in PVR/DVR
- A lot of code cleanup and improvements
- Audio Digital Signal Processing (DSP)
- Event logging
- User ratings for videos

v16 Jarvis - Event logging

Video library scanner
Failed to scan movie: Paper Planer (2014).mkv
01/29/2016 7:30:06 PM

Video library scanner
Failed to scan movie: The Boy with the Cuckoo-Clock Heart (2013).iso
01/29/2016 7:19:37 PM

Video library scanner
Failed to scan movie: tearsofsteel_4k
01/29/2016 7:19:36 PM

Information
Remove
View

Video library scanner
Failed to scan movie: Frozen Forever
01/29/2016 7:19:31 PM

Kodi successfully started
Kodi has been successfully started.
01/29/2016 7:17:01 PM

KODI

(5) Items - Page (1/1)

v16 Jarvis - Add-on manager changes

v16
Jarvis

Audio Digital Signal Processing

v16 Jarvis - Audio DSP

..

Audio DSP Basic Processor	Enabled
Biquad Filters	Enabled
Free Surround Processor	Enabled

Biquad Filters

Author: Achim Turan, Team KODI

Version: 0.0.1

The first version of this add-on includes a parametric equalizer post processing mode with constant-Q peaking filters (biquad filter). It allows you to boost or cut 10 frequency bands.

(3) Items - Page (1/1)

v16 Jarvis - Audio DSP

9:02 PM

Audio DSP manager

| 1. Input resampling | 2. Pre-processing | 3. Master processing | 4. Post-processing | 5. Output resampling |

Here you can configure master processing modes. Notice: On playback only one active mode can be selected!

Available modes (0)

Active modes (2)

AudioDSP FreeSurround   1. Free Surround Processor: Free Surround
based on foo_dsp_fsurround which is part of the pro_opt

Audio DSP   2. Basic audio DSP processing system: Stereo - Dolby ...

Apply changes directly ⏺

Apply changes now

Clear active modes

v16 Jarvis - Audio DSP

Audio DSP manager

| 1. Input resampling | 2. Pre-processing | 3. Master processing | **4. Post-processing** | 5. Output resampling |

Here you can configure post-processing modes. This processing stage can be used for equalizing and volume correction...

Available modes (1)

Basic audio DSP processing system: Speaker correction
Correct the volume and speaker distance on specific s...

Active modes (1)

1. Biquad Filters: Parametric EQ
10 frequency bands plus post gain

Apply changes directly

Apply changes now

Clear active modes

v16 Jarvis - Audio DSP

9:02 PM

1. Input resampli   Output resampling

Here you can configure

Basic aud
Correct t

Preamp		0.0dB
32Hz		2.1dB
64Hz		1.3dB
125Hz		0.3dB
250Hz		-0.2dB
500Hz		-0.8dB
1kHz		0.1dB
2kHz		0.0dB
4kHz		0.4dB
8kHz		0.6dB
16kHz		2.2dB

Apply changes   active modes

OK	Cancel	Defaults

v16 Jarvis - User ratings

22:46

9

Director:	Shane Acker
Writer:	Shane Acker / Pamela Pettler
Studio:	Focus Films
Genre:	Fantasy / Animation / Science Fiction / Action / Adventure / D...
Year:	2009
Runtime:	79 Minutes
My rating:	8
Rating:	6.5 (647 votes)
Tagline:	When our world ended their mission began.
MPAA rating:	Rated PG-13
Path:	smb://SKYNET-SERVER/Multimedia/Animation/9 (2009)/9 (2...

1080 H.264 dts 5.1 16:9

Plot (Page 1/1)

When 9 first comes to life, he finds himself in a post-apocalyptic world. All humans are gone, and it is only by chance that he discovers a small community of others like him taking refuge from fearsome machines that roam the earth intent on their extinction. Despite being the neophyte of the group, 9 convinces the others that hiding will do them no good.

Play	Cast	Refresh	Choose art	Trailer	Set my rating

V17
Krypton

Our current work-in-progress version

When will it be ready?

We never give dates nor promises

Planned changes

again no promises although we will try to get some nice things done

VideoPlayer

Complete rework of the internal player that handles video
(aka VideoPlayer)

VideoPlayer - Why the rewrite?

A lot of legacy code was still around dating back to XBOX days

Code grew over time when adding new platforms with no real grand design in mind

Not written platform agnostic

Not as efficient as it should be

Huge entanglement of code across the codebase

Current state was holding back features

VideoPlayer - The benefits

Maintainable code

Can't stress enough about maintainable code

Platform agnostic and platform specific are split

More efficient way of doing playback

Adding new features should be less of a hassle

VideoPlayer - Possible features

Picture-In-Picture

Speed-up or slowdown playback speed

Futureproof towards higher bitrate and resolution videos

Additional shaders and renderers

Act as transcoder towards other players

Next up is splitting playback and user interface into their own process

Headless mode which makes Kodi a possible server component

UPnP media import

Sharing media library between several Kodi instances, sync play count and ratings.

UPnP media import
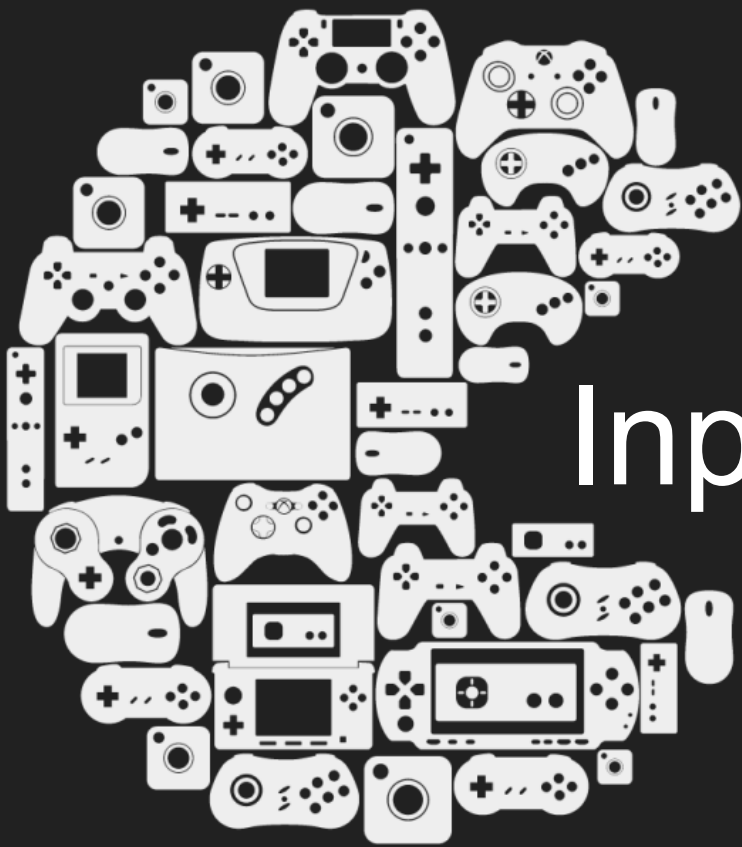
Input handling

Complete rework of how input is handled
and split it off into add-ons

Input handling - Controller setup

Games - Settings

Controller Configuration

Controller profiles

Kodi

Dreamcast

Game Boy Advance

Sega Genesis

Nintendo 64

NES

PlayStation

Super Nintendo

Buttons

A

B

X

Y

Start

Back

Guide

Left thumb

Right thumb

Get more...   OK   Reset

Standard

Input handling - Controller setup

9:50 PM

Games - Settings

Controller Configuration

Controller profiles

Kodi

Dreamcast

Game Boy Advance

Sega Genesis

Nintendo 64

NES

PlayStation

Super Nintendo

Buttons

A

B

Start

Select

Up

Down

Right

Left

Get more...   OK   Reset

RetroPlayer

Allows you to play console ROM's for which emulators are available.

Retroplayer - Why is it so awesome?

Playing old games is so much fun

Easy controller setup

Auto handling of emulators

Never have to leave Kodi for playing games

A single library for all retro games

Save, pause, rewind and play again

Retroplayer

Random Play

Search

Atari 2600

Atari 7800

Atari Jaguar

Atari Lynx

Game Boy Advance

Game Boy Classic

Game Boy Color

Game Gear

Internet Archive Best Of - Arcade

Internet Archive Best Of - Atari 2600

Internet Archive Best Of - Game Boy Advance

Internet Archive Best Of - Game Gear

I FEEL

?

LUCKY

Apple TV (4th gen)

No jailbreaking needed. All you need is a Mac and xcode

v17 Krypton - General items

Further reduce number of skin files by combining windows and dialogs

Proper passthrough on Android platform

VFS add-ons (NFS, RAR)

APNG and animated GIF support

Switching between multiple video streams (multi-angle)

DASH support

Probably a lot more to come

v17 Krypton - Unknown sources

22:44

Confluence

System - Settings

Video output

Audio output

Input device

Internet acces

Power savi

Add-on

Logging

Master lock

Settings level
Advanced

Updates — Install updates automatically

Show notifications

Unknown sources

Manage dependencies

Warning!

device. By allowing, you agree that you are solely responsible for any loss of data, unwanted behaviour, or damage to your device. Proceed?

Yes	No

Allow installation of add-ons from unknown sources.

A new default skin

Sorry, no sneak previews

The End