## Grasshopper Convertor

AWT01 - 24/09/2018
Jalasoft Foundation

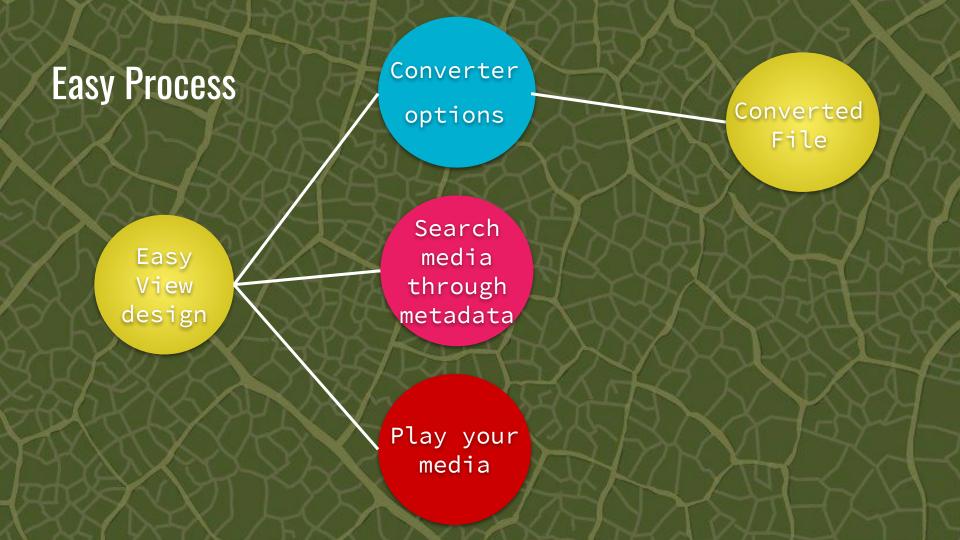
Kevin Aaron Herrera Claros Eliana Angélica López Hurtado Adrián Rojas Arévalo Kevin CSánchez D.

### About me

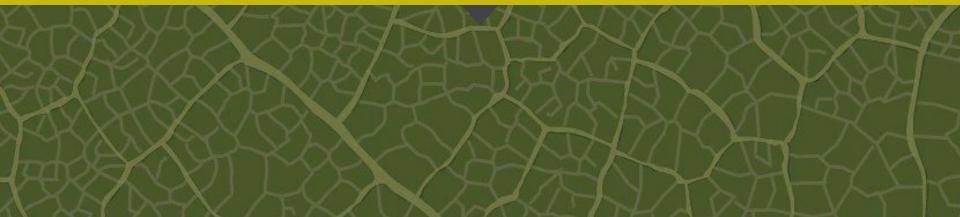
I'll help you convert videos and audio files to the format of your choosing making media management a lot easier.

I'm an open source application which means that the code and the installer is free.

I'm excited to partner with you!



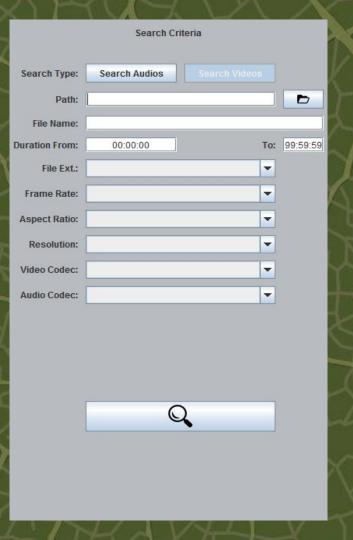
## VIEW DESIGN



### SEARCH PANEL

The search section allows you to search for multimedia files on the local environment through their metadatas.

\*Current version supports audio and video files search.



### RESULT PANEL

This section shows a list of results from the search criteria entered. These files are displayed with all the metadata details specific to the media type.

Making a double click in a file of the list will play the file.

		41 700					700		
File Name	File Path	Duration	Extension	Frame R	Aspect R	Resolution	Video Co	Audio Co	Size
23e23e	C:\Progra	26.8	mp4	60	4:3	320X240	h264	aac	1 MB
otherSa	C:\Progra	5.28	mp4	25	16:9	1280X720	h264	aac	1 MB
drop.avi	C:\Progra	6.066667	avi	30		256X240	indeo4		675 KB
drop_h2	C:\Progra	6.066667	mp4	30		256X240	h264		294 KB
InsideSa	C:\Progra	3.6	mkv	25	16:9	1280X720	mpeg4	aac	1 MB
Panason	C:\Progra	46.12	avi	25	16:9	1920X10	mpeg4	mp3	11 MB
Sample	C:\Progra	20.553333	mp4	59,94	16:9	1920X10	h264	aac	18 MB
Sample	C:\Progra	5.28	mp4	25	16:9	1280X720	h264	aac	1 MB
Sample4	C:\Progra	30.033333	mp4	30	16:9	480X270	h264	aac	1 MB
SampleV	C:\Progra	10.65	mkv	25	16:9	1280X720	mpeg4	aac	2 MB
SampleV	C:\Progra	40.666667	3gp	15	4:3	176X144	h263	amr_nb	1 MB
SampleV	C:\Progra	26.8	mp4	15	4:3	320X240	h264	aac	2 MB
THE RESERVE OF THE PERSON NAMED IN		- 1							

File Name	File Path	Duration	Extensi	Audio C	Sample	Bit Depth	Bit Rate	Channels	Size
30Hz.flac	C:\Progr	60.0	flac	flac	192000	s16	898371	2	6 MB
sample	C:\Progr	6.257778	wav	pcm_u8	22050	u8	176456	1	138 KB
Sample	C:\Progr	45.3268	mp3	mp3	44100	fltp	128001	2	725 KB
Sumerti	C:\Progr	121.578	wma	wmav2	44100	fltp	129737	2	1 MB
track37	C-\Progr	33.4708	mn3	mn3	44100	fltn	127000	2	535 KR

### **CONVERSION PANEL**

The conversion section gives you the available options to do the conversion of audio files and video files.

	Conversion pa	arameters	
File to Convert:			
Output Path:	b	New Name:	
New Resolution:	-	New Audio Codec:	-
New Frame Ratio:	-	New Format:	-
New Video Codec:			
			Convert

# Search Options

### Options available to search video

- Extension.
  - MP4, AVI, FLV, MKV, MOV, 3GP.
- Frame Rate.
  - 24, 25, 29, 29.7,30, 60.
- Aspect Ratio.
  - 16:9, 16:10, 0:1, 4:3, 40:23.
- Resolution.
  - 1920X1080, 1280X720, 640X480, 640X368, 480X270, 320X240, 256X240, 176X144.
- Video Codec.
  - H264, h263, vp6f, indeo4, mpeg4, flv, avi.
- Audio Codec.
  - Mp3, pcm\_u8, wmav2, ogg, flac, aac

File Ext.:	
Frame Rate:	<u> </u>
Aspect Ratio:	_
Resolution:	_
Video Codec:	<u> </u>
Audio Codec:	_

### Options available to search audio

- Extension.
  - MP3, WMA, WAV, OGG, FLAC.
- Sample Rate.
  - 11025, 22050, 44100, 48000.
- Bit Depth.
  - U8, s16, s16p, fltp.
- Bitrate.
  - 24000, 32000, 48000, 64000, 96000,127999, 128000, 129737, 176456, 838371.
- Channels.
  - 1, 2
- Audio Codec.
  - Mp3, pcm\_u8, wmav2, ogg, flac, aac



# **Convertor Options**

### Options available to convertor video

- New Name.
- Output Path.
- Format.
  - MP4, AVI, FLV, MKV, MOV, 3GP.
- Frame Rate.
  - 24, 25, 29, 29.7,30, 60.
- Aspect Ratio.
  - 16:9, 16:10, 0:1, 4:3, 40:23.
- Resolution.
  - 1920X1080, 1280X720, 640X480, 640X368, 480X270, 320X240, 256X240, 176X144.
- Video Codec.
  - H264, h263, vp6f, indeo4, mpeg4, flv, avi.
- Audio Codec.
  - Mp3, pcm\_u8, wmav2, ogg, flac, aac



### Options available to convertor audio

- New Name.
- Output Path.
- Extension.
  - MP3, WMA, WAV, OGG, FLAC.
- Sample Rate.
  - 11025, 22050, 44100, 48000.
- Bit Depth.
  - U8, s16, s16p, fltp.
- Bitrate.
  - 24000, 32000, 48000, 64000, 96000,127999, 128000, 129737, 176456, 838371.
- Channels.
  - 1, 2
- Audio Codec.
  - Mp3, pcm\_u8, wmav2, ogg, flac, aac



## STRUCTURE OF THE PROGRAM







### Gradle Build

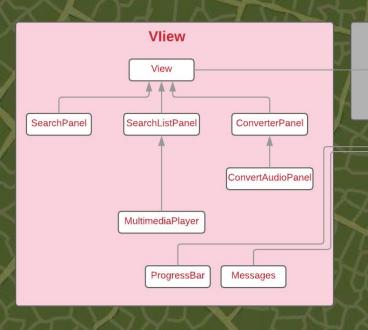
- ▼ I src
  - ▼ 📑 main
    - 🕨 📘 java
    - resources
  - ▼ **test** 
    - la java
  - w build.gradle
- 🖊 📄 java
  - Com.foundations.convertor
    - common 🖿 🖿
    - ▶ ☐ controller
    - model 🖿
    - utils
    - ▶ view
      - **@** Main

- ▼ 🖿 controller
  - Controller
- ▼ Immodel
  - ▼ 🖿 Conversion
    - AudioConversion
    - VideoConversion
  - ▼ I Multimedia
    - Audio
    - IAudioFactory
    - IVideoFactory
    - Multimedia
    - MultimediaFactory
    - Video
    - ISearchAudio
    - (I) ISearchVideo
    - Search

- ▼ Image view
  - ConverterPanel
  - Messages
  - MultimediaPlayer
  - ProgressBar
  - SearchAudioPanel
  - SearchListPanel
  - SearchPanel
  - View
- ▼ 🖿 common
  - ConAudioCrit
  - ConversionCriteria
  - Criteria
  - SearchCriteria
- ▼ 🛅 utils
  - ConverterUtils
  - CopperManager
  - MetadataFormats
  - StyleUtils

- ▼ Image: resources
  - images
  - thirdparty
    - log4j.properties
- ▼ 📑 test
  - ▼ 🗎 java
    - ▼ image com.foundations.convertor
      - common 🖿
      - controller 🖿
      - ▶ Model
      - utils
      - ▶ view
        - AppTest
- w build.gradle

# DIAGRAM OF CLASSES



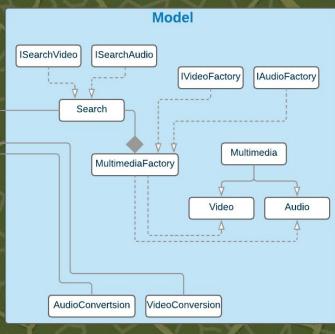
Utils ConverterUtils

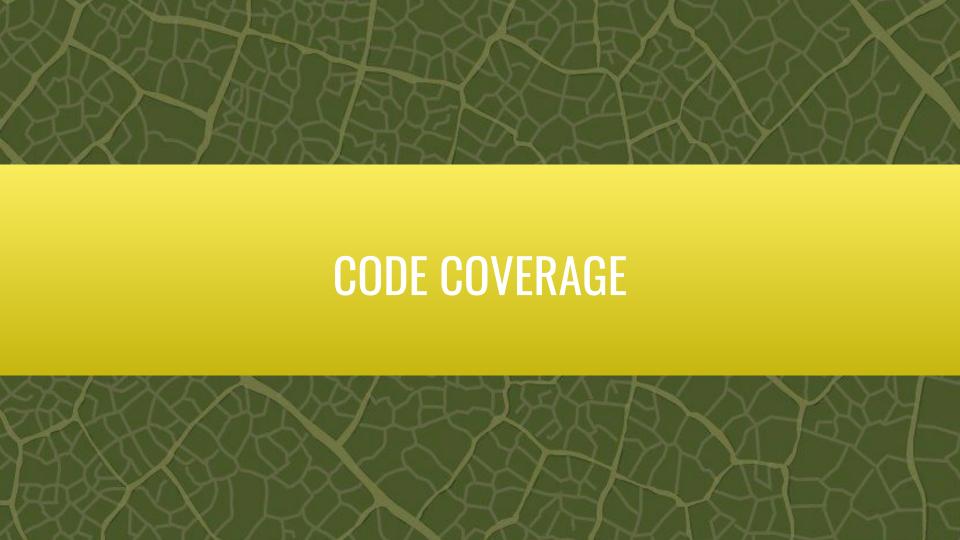
StyleUtils

LoggerManager

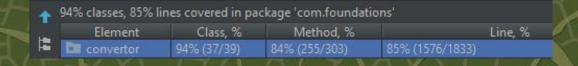
MetadataFormats

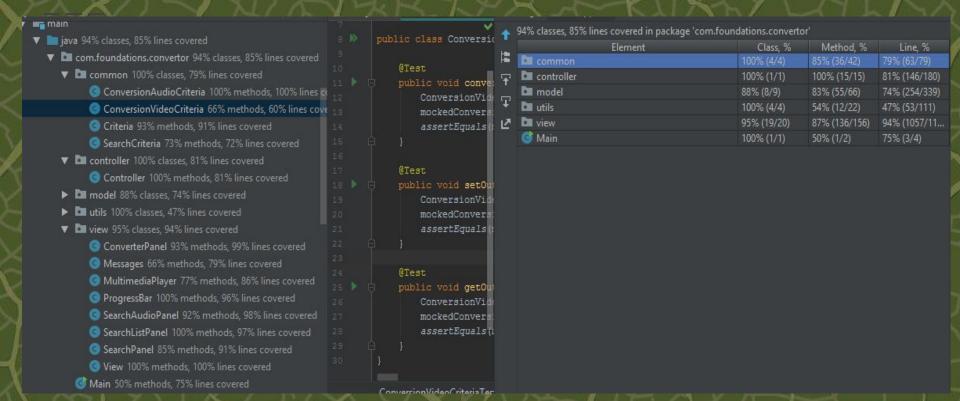






### Code Coverage - IntelliJ









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www.fundacion-jala.org



