

# FFmpeg and Other Open-Source Software

Reto Kromer • AV Preservation by reto.ch

## Open-Source Tools and Resources for Digital Film Preservation

Tate, London, United Kingdom  
30–31 October 2019

1

# FFmpeg's Components

- ffmpeg
- ffplay
- ffprobe
- libavutil
- libavcodec
- libavformat
- libavdevice
- libavfilter
- libswscale
- libswresample

2

# File Transformations

**ffmpeg** (CLI)

→ [ffmpeg.org](https://ffmpeg.org)

**ffmprovisr**

→ [amiaopensource.github.io/ffmprovisr/](https://amiaopensource.github.io/ffmprovisr/)

**FFmpeg Cookbook for Archivists**

→ [avpres.net/FFmpeg/](https://avpres.net/FFmpeg/)

3

# Metadata Extraction

**MediaInfo** (GUI, CLI)

→ [mediaarea.net/MediaInfo](https://mediaarea.net/MediaInfo)

**ffprobe** (CLI)

→ [ffmpeg.org](https://ffmpeg.org)

4

## Media Players

**VLC** (GUI)

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

**ffplay** (CLI)

→ [ffmpeg.org](http://ffmpeg.org)

**mpv** (CLI)

→ [mpv.io](http://mpv.io)

5

## A Graphical User Interface

**FFCommand Engine** (GUI)

→ [github.com/ColorlabMD/FFCommand\\_Engine](https://github.com/ColorlabMD/FFCommand_Engine)

6

## The Missing Piece of Software

**RAWcooked** (CLI)

→ [mediaarea.net/RAWcooked](http://mediaarea.net/RAWcooked)

7

## Quality Control

**QCTools** (GUI), **qcli** (CLI)

→ [bavc.org/preserve-media/preservation-tools](http://bavc.org/preserve-media/preservation-tools)

**QCTools Documentation**

→ [bavc.github.io/qctools/](http://bavc.github.io/qctools/)

**AV Artifact Atlas**

→ [bavc.github.io/avaa/](http://bavc.github.io/avaa/)

8

## Optical Sound Extraction

### **AEO-Light** (GUI)

→ [usc-imi.github.io/aeo-light/](https://usc-imi.github.io/aeo-light/)

### **AEO-Light Manual**

→ [github.com/usc-imi/aeo-light/releases/download/v2.2-beta/AEO-Light-2.2-beta-Manual.pdf](https://github.com/usc-imi/aeo-light/releases/download/v2.2-beta/AEO-Light-2.2-beta-Manual.pdf)

9

## DCP Encoder (and Player)

### **DCP-o-matic** (GUI)

→ [dcpomatic.com](https://dcpomatic.com)

10

## AMIA Open Source

### **vrecord** (CLI)

→ [github.com/amiaopensource/vrecord](https://github.com/amiaopensource/vrecord)

### **audiorecorder** (CLI)

→ [github.com/amiaopensource/audiorecorder](https://github.com/amiaopensource/audiorecorder)

### **LTOpers** (CLI)

→ [github.com/amiaopensource/ltopers](https://github.com/amiaopensource/ltopers)

11

## **AV Preservation by reto.ch**

chemin du Suchet 5  
1024 Écublens  
Switzerland

Web: [reto.ch](https://reto.ch)  
Twitter: [@retoch](https://twitter.com/retoch)  
Email: [info@reto.ch](mailto:info@reto.ch)



12