

# Open-Source-Softwarepakete

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**Open Source im Archivalltag**  
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1

# Multimediaplayer

2

## Mediaplayer

**VLC** (GUI)

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

**mpv** (CLI/GUI)

→ [mpv.io](http://mpv.io)

**ffplay** (CLI)

→ [ffmpeg.org](http://ffmpeg.org)

3

# Metadaten

4

## Metadaten extrahieren

**MediaInfo** (GUI) and **mediainfo** (CLI)

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

**ffprobe** (CLI)

→ [ffmpeg.org](http://ffmpeg.org)

**MediaInfo Parameter Definitions**

→ <http://bits.ashleyblewer.com/mediainfo-definitions/>

5

## Metadata of all AV files

**Bash AVpres** (CLI)

→ [avpres.net/Bash\\_AVpres/](http://avpres.net/Bash_AVpres/)

```
metadata_csv -i input_path
```

```
metadata_csv -h  
man metadata_csv
```

6

# Dateiumwandlungen

7

## Dateiumwandlungen

**ffmpeg** (CLI)

→ [ffmpeg.org](http://ffmpeg.org)

**FFmpeg Cookbook for Archivists**

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

**ffmprovisr**

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

8

# Grafische Benutzeroberfläche

## FFCommand Engine (GUI)

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

version 0.6 für macOS via Homebrew:

```
brew tap avpres/formulae
```

```
brew install --HEAD ffcommand-engine
```

9



10

# Qualitätskontrolle

11

## Quality Control Tools

### container and codec

- MedialInfo, ffprobe, MediaConch
- hexdump, fq

### image and sound content

- QCTools, qcli, SignalServer
- VLC, mpv, ffplay

12

## Policy Checker

**MediaConch** (GUI, CLI, web)

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

13

## MediaConchOnline

• [mediaarea.net/MediaConchOnline/](https://mediaarea.net/MediaConchOnline/)

14

## Quality Control

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

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

**QCTools Documentation**

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

**AV Artifact Atlas**

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

15

# Archivierung

16

## Dateien und Folder kopieren

- Drag-and-drop
- Kopieren und Einfügen
- Terminal

17

## Terminal

- cp, gcp
- rcp, rsync

18

## Werkzeuge zur Archivierung

- RAWcooked
- Baglt

19

## Eine Brücke zwischen den zwei Welten

### **RAWcooked** (CLI)

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

```
# to encode:  
rawcooked input_path_of_folder  
# to decode:  
rawcooked rawcooked_input_file.mkv  
# to get help:  
rawcooked -h  
man rawcooked
```

20

## RAWcooked

- encoding into Matroska (.mkv) using FFV1 video codec and FLAC audio codec
- all metadata preserved
- significantly fewer files
- decoding with bit-by-bit reversibility
- possibility to embed sidecar files (e.g. MD5, LUT, XML)
- compatibility with media players

21

## Make BagIt

### **Bash AVpres (CLI)**

→ [avpres.net/Bash\\_AVpres/](http://avpres.net/Bash_AVpres/)

```
make_bagit -b input_folder
```

```
make_bagit -h  
man make_bagit
```

22

## Verify BagIt

### **Bash AVpres (CLI)**

→ [avpres.net/Bash\\_AVpres/](http://avpres.net/Bash_AVpres/)

```
verify_bagit -b input_folder
```

```
verify_bagit -h  
man verify_bagit
```

23

## Undo BagIt

### **Bash AVpres (CLI)**

→ [avpres.net/Bash\\_AVpres/](http://avpres.net/Bash_AVpres/)

```
undo_bagit -b input_folder
```

```
undo_bagit -h  
man undo_bagit
```

24

# Weitere Tools

25

## Video Transcoder

**HandBrake** (GUI)

→ [handbrake.fr](http://handbrake.fr)

26

## Audio Editor (and Recorder)

**Audacity** (GUI)

→ [www.audacityteam.org](http://www.audacityteam.org)

27

## Video Compositing

**Natron** (GUI)

→ [natrongithub.github.io](http://natrongithub.github.io)

28

## Compositing, Grading and Restoration

### **Resolve** (GUI)

→ [www.blackmagicdesign.com/products/davinciresolve](http://www.blackmagicdesign.com/products/davinciresolve)

29

## 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)

30

## DCP Encoder (and Player)

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

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

### **DCP-o-matic users' manual**

→ [dcpomatic.com/manual/html/](http://dcpomatic.com/manual/html/)

### **Create DCPs: DCP-o-matic**

→ [avpres.net/training/DCP-o-matic/](http://avpres.net/training/DCP-o-matic/)

31

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32