MediaConch
implementation and policy checking
on FFV1, Matroska, LPCM, and more

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What is MediaConch?

A conformance checker

- Implementation checker
- Policy checker
- Reporter
- Fixer
What is MediaConch?
A conformance checker ... in four formats

- Command line
- Graphical interface
- Server (REST API)
- Web interface
MediaConch and open source

- GPLv3+ and MPLv2+
- Relies on MediaInfo (metadata extraction tool)
- Uses Qt, sqlite, libevent, libxml2, libxslt, libexslt...
Formats

- Prioritizes...
  - Matroska
  - FFV1
  - PCM
- But also...
  - Can accept any format supported by MediaInfo
  - Mainly as a policy checker
  - Implementation checker for other formats can be developed in the future
Versatile

- Binaries are provided for:
  - Windows
  - Mac
  - Linux (Ubuntu, Debian, Fedora, OpenSUSE...)
  - Can be ported on other distros (BSD...)
- Input can be from:
  - Files (local/network)
  - FTP/FTPS/SFTP
  - HTTP/HTTPS
  - Amazon S3
Standardization

- Matroska is widely used but not standardized
- FFV1 is preferred by some entities but not standardized
CELLAR: IETF workgroup

- Open standards group
- Goal to standardize Matroska/FFV1/FLAC
- A lot of progress, especially with Matroska/EBML specs
PREFORMA Sponsorship

- 3-year project (2015-2017)
- Sponsored by European Union
- Open source license is required!
PREFORMA Sponsorship

3 software projects:

- **Video** (Matroska/FFV1/PCM):
  MediaConch (MediaArea)
- **Document** (PDF):
  VeraPDF (Open Preservation Foundation)
- **Image** (TIFF):
  DPF Manager (Easy Innova)
What's next?

- Still under development
- asynchronous mode (handling of huge libraries)
- Better user interface
- Statistics
- Standardize Matroska and FFV1
- More conformance tests
Want to help us?

- CELLAR participation
- Implementing CRC-32 into Matroska and FFV1
- Quality checking for all interfaces
- Bug tracking and reporting
- Documentation
- Your weird video errors
- Your codebase!
Stay in touch

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