Automated QA Tools for Audio Migration & JP2K Images

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The OPF Team

Community Manager : Rebecca McGuinness
- Events (face-to-face/virtual)
- Training (staff development)
- Comms (web/email/social)

Executive Director : Ed Fay
- Membership (engagement/value)
- Open preservation advocacy
- Operational management

Technical Lead : Carl Wilson
- Infrastructure (host/test)
- Software stewardship (roadmap/maturity/packaging)
- Data corpora
SCAPE Project

- Three and a half Year EU funded research project into scalable digital preservation solutions and infrastructure.
- Also produced automated quality assurance tools for large scale workflows.
- OPF responsible for sustaining selected software results beyond the project lifetime.
Jpylyzer: JP2 Image Validation

• Validation and feature extraction for JP2 images.
• Specifically checks that a still image conforms to Part 1 of the JPEG 2000 image compression standard (ISO/IEC 15444-1).
• Reports whether an image really conforms to the standards specification: validation.
• Also reports the images technical characteristics: feature extraction.
Jpylyzer: Find Out More

- License: LGPL v3
- GitHub: https://github.com/openpreserve/jpylyzer
- Web Site: http://jpylyzer.openpreservation.org/
xcorrSound: Audio QA

- Developed to deal with migration QA issues in large audio collections, consists of 3 tools:
  - overlap-analysis: detects overlaps in 2 audio files
  - sound-match: detects occurrences of a smaller audio sequence within another, e.g. search for a jingle.
  - waveform-compare: compare two audio files and report their similarity
xcorrSound: Find Out More

- License: GPL v2
- GitHub: https://github.com/openpreserve/scape-xcorrsound
- Web Site: http://xcorrsound.openpreservation.org/
- Leaflet: http://www.scape-project.eu/leaflets/xcorrsound-improve-your-digital-audio-recordings
- Demo: http://scape.opf-labs.org/xcorrsound/index.html