Accessible AV in the Duke Digital Repository

Sean Aery & Jim Coble • Duke University Libraries • Samvera Connect, Nov 2017



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THIS ITEM

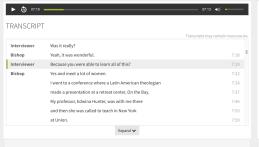
JWPlayer software (free)

HTML5 video w/Flash fallback, HTTP pseudo-streaming

Multi-file AV renders as playlist, with external controls

Uses Apache mod xsendfile module, supports byte range requests Rails controller uses send file with path to file on mounted storage Interactions captured (via JS API) as Google Analytics events

© Captions & Transcripts



WebVTT caption files uploaded as file datastream

cc button in video; captions render in player UI Interactive transcript: caption parsed to HTML via webvtt-ruby gem

Embedding



Embed code (iframe) copyable from Share menu

Shortcode support for embeds in any Sites@Duke Wordpress site Embedded view is responsive; includes some metadata, permalink





Store URI for rights & text note

Creative Commons & RightsStatements.org

Displays icons, short text, re-use label

Access Control



Masters & derivatives can be protected Role-based access control

Tie-in with Shibboleth, campus groups

integration



Export digital object info to ArchivesSpace Finding aids UI displays DDR AV inline DDR item page links to spot in finding aid

Over the course of 2017, Duke University Libraries developed support for audio and video objects in the Duke Digital Repository (DDR). The DDR is presently a suite of applications built on a

We needed to implement AV solutions in 2017 to accommodate two grant-funded digitization projects and to enable migrating existing AV collections from our legacy digital collections platform. Projects include:

• Duke Chapel Recordings (Lilly Endowment Inc.)

(Fedora 3 based) Samvera Hydra head Rails engine.

- · Voices of Change: Preserving & Presenting Radio Haiti (NEH)
- · Advertisements & oral histories from legacy platform

Goals

- · Support hybrid collections of AV, images, documents
- · Model, ingest, preserve, & play multi-file AV objects
- Accommodate intermediate / mezzanine files
- Meet WCAG accessibility guidelines for time-based media
- · Enable manual provision of low-bitrate derivatives

- · Export WebVTT captions as .pdf or .txt
- · Advance player via linked timecodes in description field
- · Upload & display .pdf or .doc transcripts

While we have succeeded in meeting our goals on a relatively short timeline, there are some notable limitations to what we developed

- Not a Hyrax solution
- One derivative per file, no auto-generation
- No adaptive bitrate streaming (e.g., HLS)
- No multilingual captions (yet)
- Captions not indexed in Solr (yet)

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Visit

repository.duke.edu

github.com/duke-libraries

Project Blog

blogs.library.duke.edu/bitstreams/



