

Accessible AV in the Duke Digital Repository

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

Playback



Post: Toasties Corn Flakes, 1950s

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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

John W. Hartman Center for Sales, Advertising & Marketing History

Contact

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Digital Collections
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AdViews

THIS ITEM

Captions & Transcripts

TRANSCRIPT

Transcripts may contain inaccuracies.

| | | |
|-------------|---|------|
| Interviewer | Was it really? | |
| Bishop | Yeah, it was wonderful. | 7:18 |
| Interviewer | Because you were able to learn all of this? | 7:19 |
| Bishop | Yes and meet a lot of women. | 7:22 |
| | I went to a conference where a Latin American theologian made a presentation at a retreat center, On the Bay. | 7:24 |
| | My professor, Edwina Hunter, was with me there | 7:37 |
| | and then she was called to teach in New York at Union. | 7:46 |
| | | 7:53 |
| | | 7:59 |

Expand

WebVTT caption files uploaded as file datastore
CC button in video; captions render in player UI
Interactive transcript: caption parsed to HTML via webvtt-ruby gem

Embedding

Fugees

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ITEM INFO

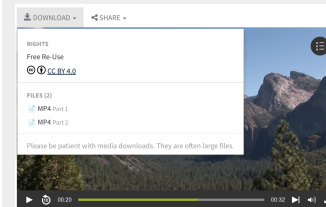
Title: `<iframe src="https://idn.duke.edu/ark:/87924/t48050g357" width="100%" height="100%" frameborder="1"></iframe>`

Speaker: `https://idn.duke.edu/ark:/87924/t48050g35`

Jean, Wyclef

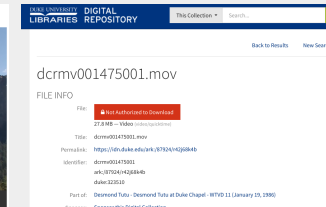
Embed code (iframe) copyable from Share menu
Shortcode support for embeds in any Sites@Duke Wordpress site
Embedded view is responsive; includes some metadata, permalink

Rights



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

OVERVIEW

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 (Fedora 3 based) Samvera Hydra head Rails engine.

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

GOALS / NEXT STEPS

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

Next Steps

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

LIMITATIONS

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)

LEARN MORE

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Visit
repository.duke.edu

Code
github.com/duke-libraries

Project Blog
blogs.library.duke.edu/bitstreams/

