

IIIF A/V in Practice: An Overview of IIIF Usage in Avalon Media System

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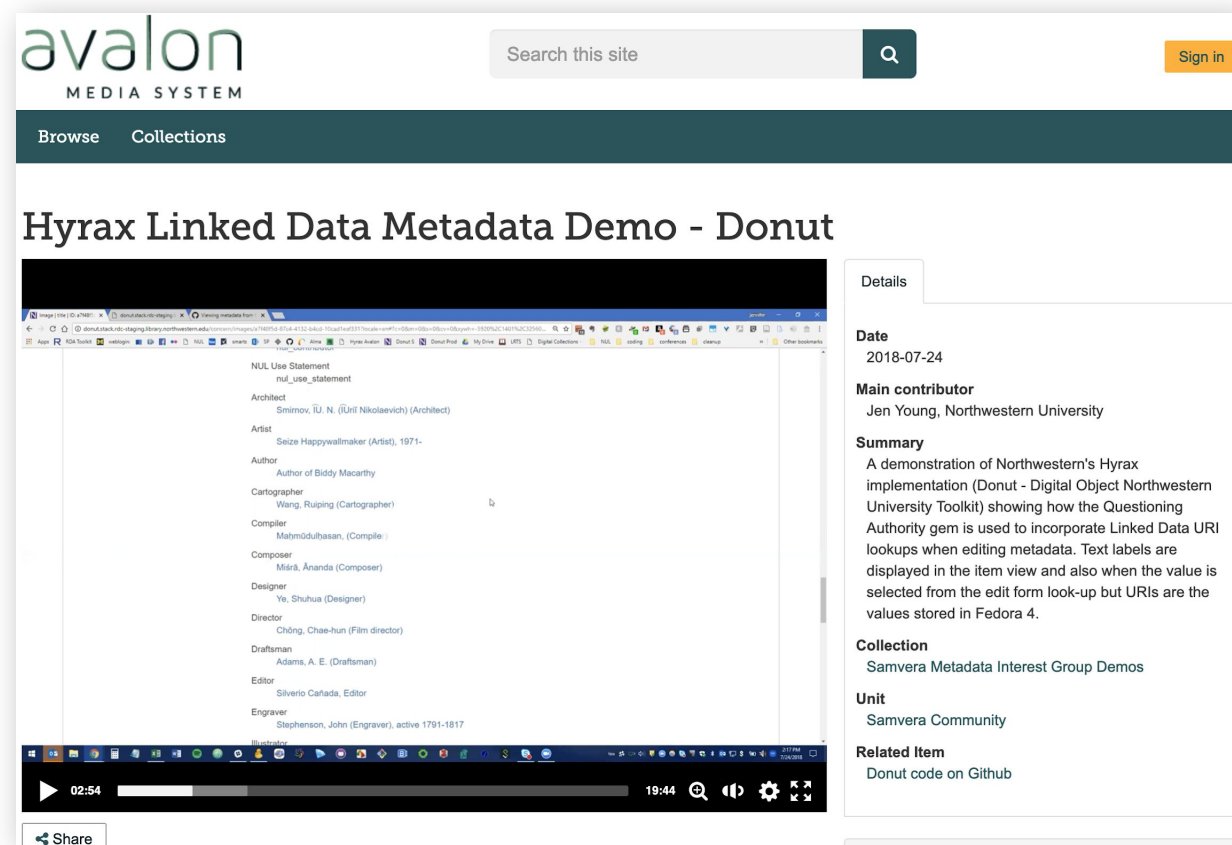
IIIF Annual Conference
June 8, 2022

Outline

- Avalon Media System
- Manifest generation
- Timeliner
- Avalon IIF player

What is Avalon Media System?

- Samvera solution bundle for audio and video access
- Features include easy transcoding, granular access control, and much more
- Supported by grants from the Mellon Foundation and IMLS
- Latest release: Avalon 7.3



Avalon as a Project

- Avalon Media System
- Supporting libraries
- Small scripts and tooling applications
- React Components

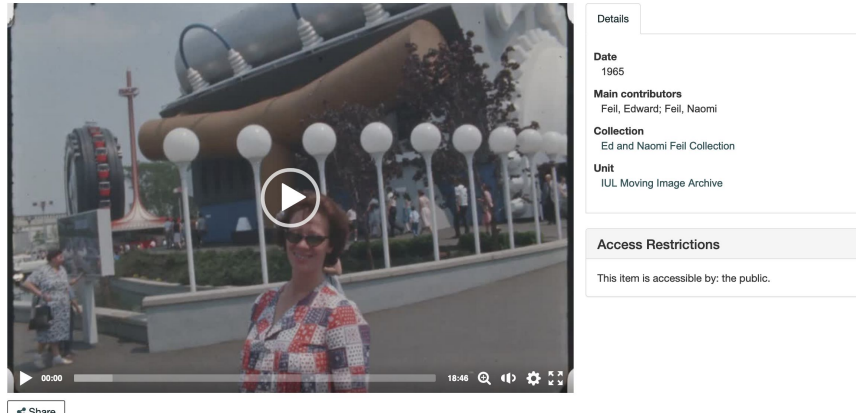
Manifest Generation

- Using the iiif_manifest Samvera community gem
 - https://github.com/samvera/iiif_manifest
- Converts internal models to IIIF
- But...
 - Doesn't quite meet Presentation 3.0
 - Doesn't play well with other consumers
 - Not often used
- Initial implementation of IIIF Auth

Manifest Generation

https://media.dlib.indiana.edu/media_objects/qj72p820d

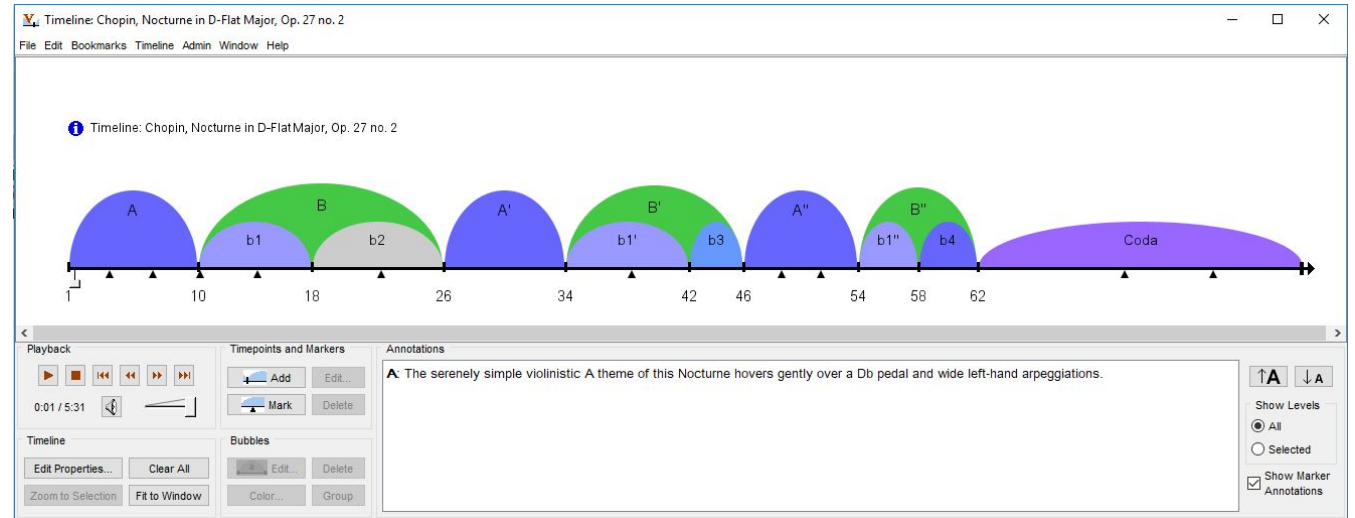
NY World's Fair Home Movies 1964-1965



https://media.dlib.indiana.edu/media_objects/qj72p820d/manifest

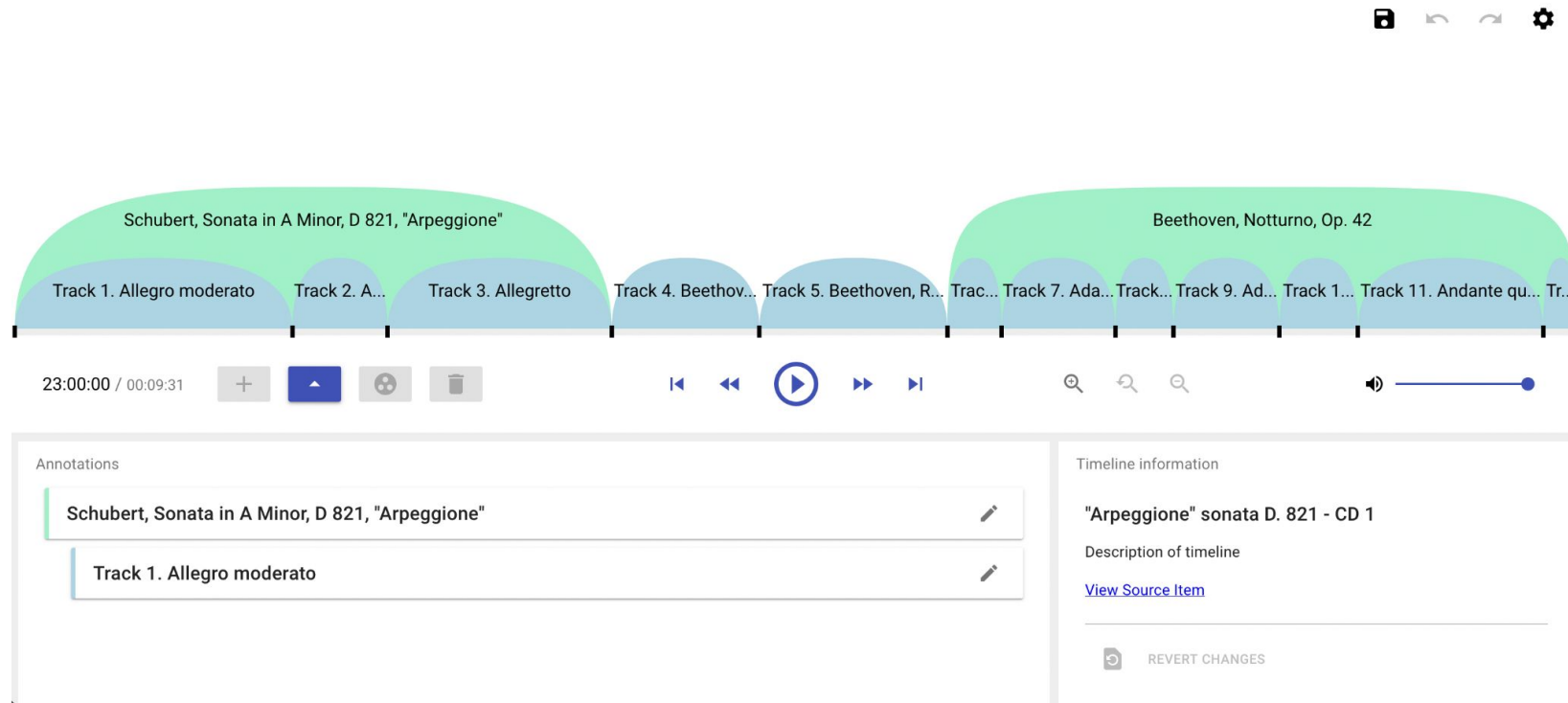
[illegible]

Timeliner



- An audio annotation and analysis tool for creating and labeling bubble diagrams
- Development by Digirati
- Reimplementation of Variations Audio Timeliner
- <https://github.com/IUPLibTech/timeliner>

Timeliner



- Also available as a standalone application
- timeliner.dlib.indiana.edu

Timeliner Integration

Timelines (17 total)

Showing 1 to 10 of 17 entries

Import Variations Timeline

Search: Filter:

Name	Description	Visibility	Last Updated	Tags	Actions
"1812" overture - CD 1		Private	8 months ago		Copy Edit Details Delete
"Arpeggione" sonata D. 821 - CD 1		Private	about 2 years ago		Copy Edit Details Delete
"Dear Brecht - " : Tondokumente einer Zusammenarbeit : Hollywood/New York 1944-1947 = Audio documents of a collaboration - Side 1		Private	7 months ago		Copy Edit Details Delete
Organ Symphony No. 10 "Romane" D Major, Op. 73, IV. Final (Alle	Victimae paschali text potentially offers a program for this movement and the symphonoud	Private	over 2 years ago		Copy Edit Details Delete
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Organ Symphony No. 10 "Romane" D Major, Op. 73, IV. Final (Alle	Victimae paschali text potentially offers a program for this movement and the symphonoud	Private	over 2 years ago		Copy Edit Details Delete

IIIF Media Player Beginnings

Avalon of the past – upgrading the media player was a chore!

IIIF provides us a single manifest.

May 2018 – repository created

November 2020 - community sprint

Samvera Virtual Connect 2020 Presentation

IIIF React Media Player (a component library)

The screenshot shows a Zoom presentation window. In the top right corner, there is a small video feed of a man with glasses, identified as 'Dananji Witha...'. The main content area displays a slide titled 'Exports'. The slide compares two ways of importing components from the 'react-iiif-media-player' package. On the left, under 'Single Component', the code is:

```
import { IIIFPlayer } from "react-iiif-media-player"
```

. Below this, a diagram shows a large blue box labeled 'IIIFPlayer' containing two smaller yellow boxes labeled 'MediaPlayer' and 'StructuredNavigation'. An arrow points to the right, where the 'Component Library' section shows the code:

```
import { IIIFPlayer, MediaPlayer, StructuredNavigation } from "@samvera/iiif-react-media-player";
```

. Below this, three separate blue boxes are shown, each labeled 'IIIFPlayer', 'MediaPlayer', and 'StructuredNavigation' respectively. At the bottom of the slide, the text 'avalon EMORY MEDIA SYSTEM' is visible. The Zoom interface at the bottom shows a progress bar at 41:36 / 2:56:59 and various control icons.

<https://youtu.be/anb4BJEPwMM?t=2401>

Where's the Code?

- Switched from Avalon's Github organization to Samvera Labs
- Under Samvera namespace in NPM
- <https://www.npmjs.com/package/@samvera/iiif-react-media-player>
- <https://samvera-labs.github.io/iiif-react-media-player/>



<https://github.com/samvera-labs/iiif-react-media-player>

Avalon 7 and Avalon on Hyrax

Avalon 7

- Endpoint for IIIF Presentation 3.0 manifests
- Won't use the IIIF player

Avalon on Hyrax

- Always use IIIF manifests to feed player

Avalon IIF Media Player Goals

Universal Viewer

- Very robust and feature-rich
- Meant for more than just video

Our player:

- AV focused
- Very light (other than React)
- Components can render anywhere on the page

Avalon IIF Media Player

- React
- VideoJS
- manifesto



Lunchroom Manners
Washing Hands
 [Using Soap](#)
 [Rinsing Well](#)
After Washing Hands
 [Drying Hands](#)
 ▶ [Getting Ready](#)
In the Lunchroom
At the Counter
 [Getting Tray](#)
 [Choosing Food](#)

WebVTT Transcript

[Download this transcript](#)

[00:02:31] Inside the boys' room, Phil was surprised to see some of his friends washing their hands too.

[00:02:37] Phil washed his hands well with lots of soap.

[00:02:45] Then he rinsed the soap off.

[00:02:51] Phil dried his hands well too. When he was finished, he threw the paper towel in the basket where it belonged.

[00:02:59] And then he made sure that his hair looked neat.

[00:03:05] Now Phil and his friends were ready for lunch.

Release

- 1.1 release (May 2021)
- Quality selection
- Audio UI changes
- Parser update for new caption presentation in IIIF manifests
- Improved structure navigation within player (with time-rail highlights for media fragments)
- Better visualization for nested structures



<https://github.com/samvera-labs/iiif-react-media-player>

Continued Involvement with IIIF



- Helping to write cookbook recipes for Presentation 3.0
- Maria Whitaker – former member of the IIIF Editorial Committee
- Working to model transcripts, media information, and auth within the latest IIIF spec

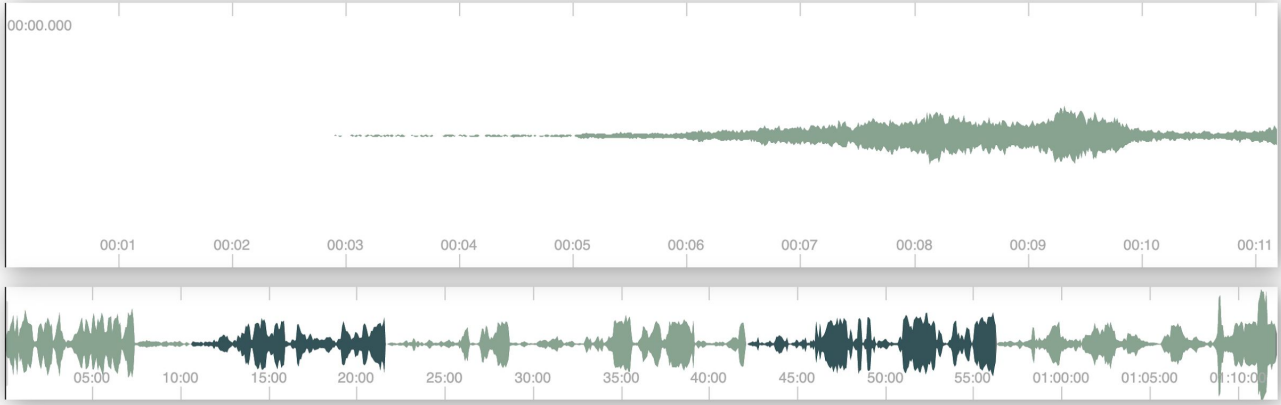
IIIF Player TBD

- Playlists
 - How can we model these in IIIF?
- Annotations
 - Respect/store/display?
- What lives as annotations in the manifest, and what are related files?

Other Future IIIF Possibilities

Structural Metadata Editor

Edit Structure ✕



The interface displays two audio waveforms. The top waveform is a zoomed-in view of the first 11 seconds, with a time scale from 00:00.000 to 00:11. The bottom waveform shows the full duration of the audio, with a time scale from 05:00 to 01:10:00. Below the waveforms is a volume slider and playback controls (play, pause, zoom in, zoom out). Below the controls are two input fields: "Add a Heading" and "Add a Timespan". At the bottom, there is a list of tracks under the heading "CD 1".

00:00.000

00:01 00:02 00:03 00:04 00:05 00:06 00:07 00:08 00:09 00:10 00:11

05:00 10:00 15:00 20:00 25:00 30:00 35:00 40:00 45:00 50:00 55:00 01:00:00 01:05:00 01:10:00

Speaker icon | Volume slider

Play | Pause | Zoom In | Zoom Out

Add a Heading

Add a Timespan

CD 1 ✎

Track 1. Modest Mussorgsky, Night on Bald Mountain, op. post. (00:00:00.000 - 00:10:36.000) ⏵ ✎ 🗑

Track 2. Alexander Borodin, Prince Igor, Polovtsian Dances (00:10:36.000 - 00:21:42.000) ⏵ ✎ 🗑

Future Possibilities

- Transcript storage and delivery

Get in Touch With Us

- #avalon channel on Samvera Slack
- avalon-discuss-l@iu.edu list
- More at avalonmediasystem.org/connect