



# OpenTimelineIO

## ASWF Project Review 2024

OTIO Technical Steering Committee:

**Jeff Hodges - Adobe**

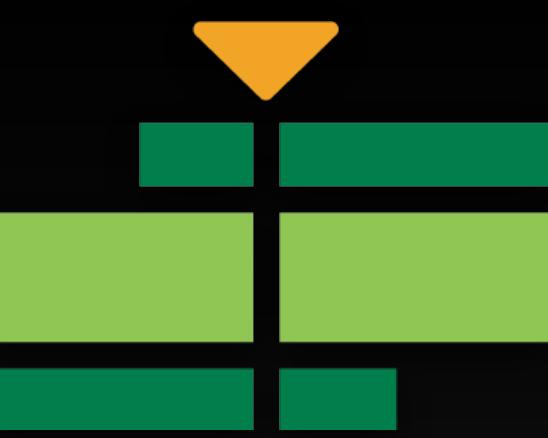
**Joshua Minor - Pixar**

**Roger Nelson - Autodesk**

**Nick Porcino - Pixar**

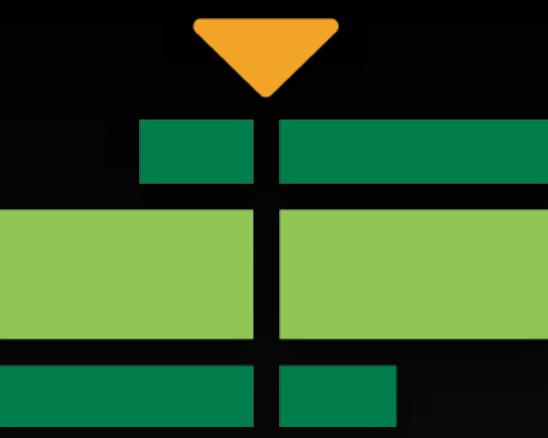
**Eric Reinecke - Netflix**

**Stephan Steinbach - Pixar**



# Outline

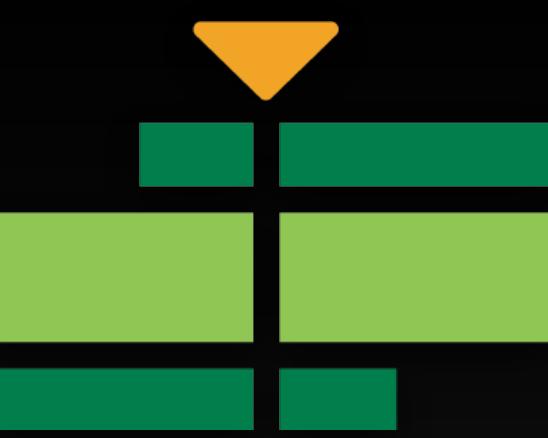
- 2024 Themes
- 2024 Ecosystem Highlights
- 2025 Areas of Focus
- Project Lifecycle in ASWF



# 2024 Focus

(From our 2023 project update)

- Complete Adapter break-out release
- Continue supporting application integrators
- Documentation refresh
- High Demand Schema Enhancements
  - Source Media Stream/Channel selection
  - Progress toward color effects



# Adapter Break-Out

## Beta 17 - Shipped in June

AcademySoftwareFoundation / OpenTimelineIO

Type  to search | +

Code  Issues 191  Pull requests 35  Discussions  Actions  Projects 12  Wiki  Security  Insights  Settings

Releases / v0.17.0

### Beta 17 - June 2024 Pre-release

reinecke released this Jun 24 · 10 commits to main since this release v0.17.0 · o 4440afa

#### Summary

This release is focussed on moving adapters from the OTIO core codebase and the contrib area into independently versioned and installable PyPI packages. ([#1386](#))

If you rely on these adapters, please use the `OpenTimelineIO-Plugins` PyPI package to ensure you continue to receive them after this release.

The OpenTimelineIO native file format adapters will still be present in the `opentimelineio` python package. These adapters are:

- `otio_json`
- `otiod`
- `otioz`

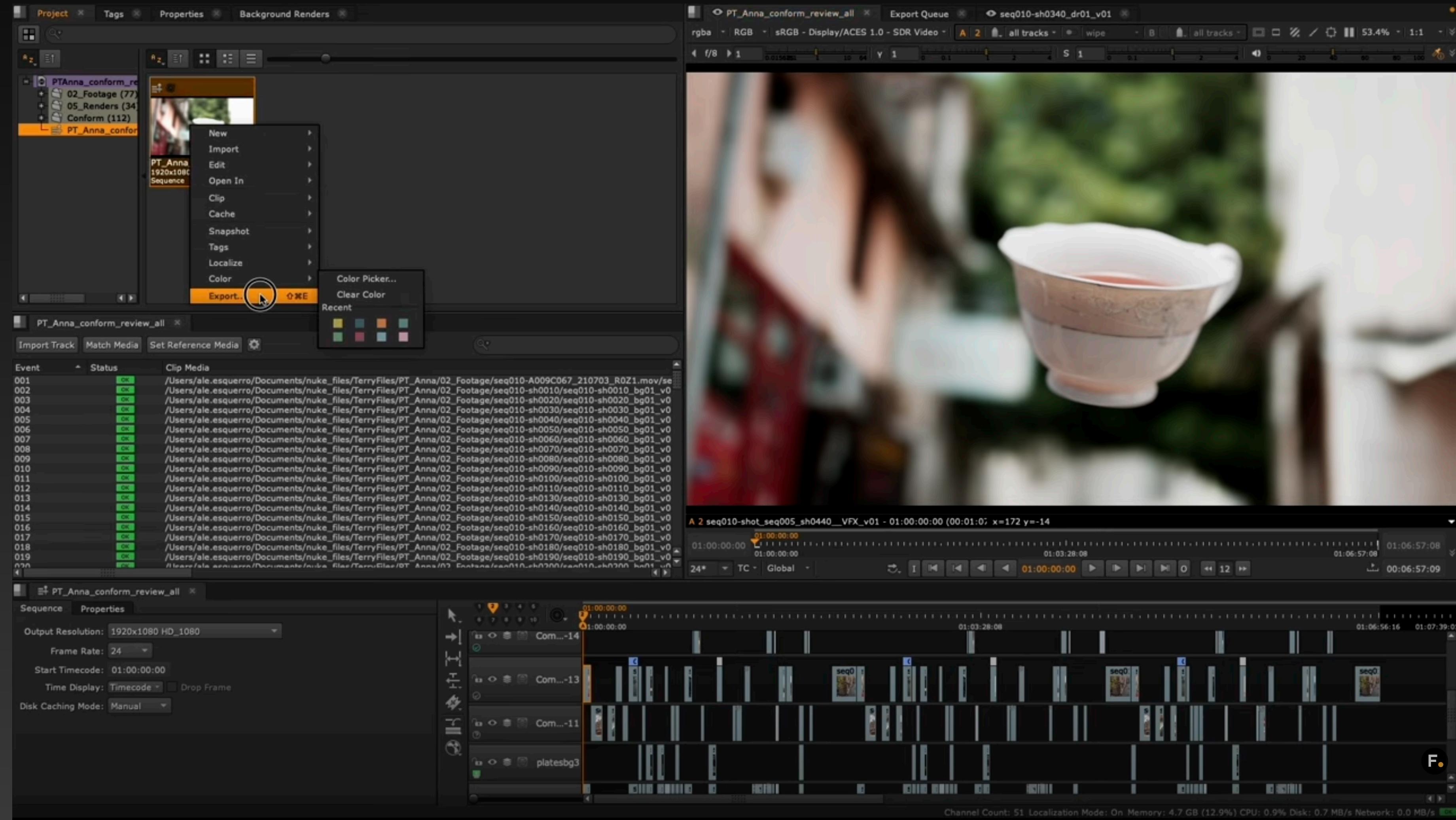
To get the full set of OTIO adapters, use the `OpenTimelineIO-Plugins` python package. In addition to the OpenTimelineIO native adapters, you'll also get:

- AAF
- ale
- burnins



# Support Vendor Adoption

## Nuke Studio Round-Trip Support





# Support Vendor Adoption

## Beta/Preview Releases



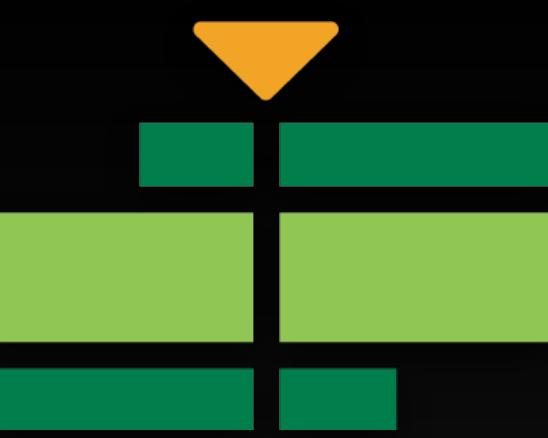
Preview

Avid Media Composer



Beta

Adobe Premiere Pro



# Documentation Refresh

 OpenTimelineIO

Search  

Features Apps and Tools Documentation

OTIO\_Introduction\_v01.otio

## OpenTimelineIO

### Bridging Editorial Workflows Across Platforms

An open-source API and interchange format for managing timeline data in media production pipelines.

<!-- -->

#### What is OpenTimelineIO?

OpenTimelineIO (OTIO) is an open-source tool built for managing and exchanging editorial timeline data across a variety of editing tools and media formats, enabling seamless data interchange in film, animation, and VFX production.

Intro Video <https://www.youtube.com/watch?v=6vTmNz8igbE>

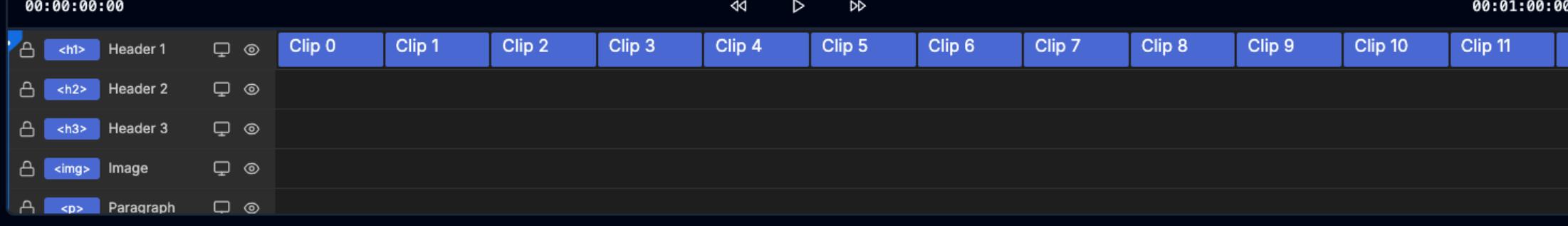
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#### Key Features

- **Interchange Format:** Effortlessly exchange timeline data across platforms.
- **Python & C++ Integrations:** Robust support for developers.
- **Adaptable:** Custom adapters for flexible workflows.

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#### OTIO Supporting Apps & Integrations



 OpenTimelineIO

Search  

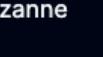
## Apps and Integrations

Find out if your favorite app already supports OTIO, and search for new tools!

Search tools... 

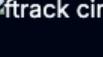
Categories

- Media
- Review
- Management
- Player

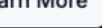
**Cezanne**

Media player and review tool

Cezanne 

**ftrack cineSync Play**

Frame-accurate playback & review & tool

ftrack 

**Hiero**

Multi-shot management, conform, editorial, review and distribution workflows tool

Foundry 

**mrViewer**

flipbook, video and audio player, with OTIO support demonstrated here

mrViewer 

**OpenRV**

A digital review tool for film, TV, and games

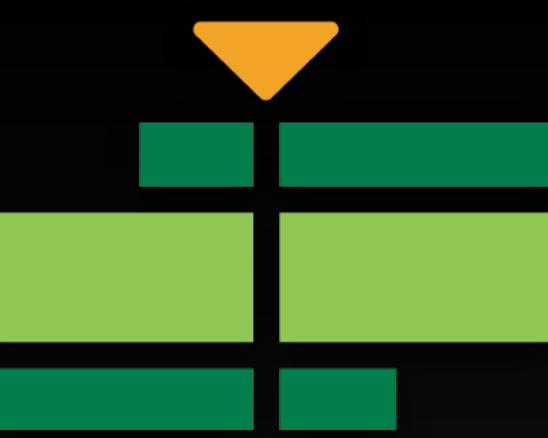
OpenRV 

**Hiero**

Multi-shot management, conform, editorial, review and distribution workflows tool

Foundry 

Sneak Peek!



# Documentation Refresh

Sneak Peek!

**Raven - OTIO Viewer**

An experimental re-write of OpenTimelineIO's `otioview` timeline viewer application.

This tool aims to replace `otioview` but it is missing a few essential features (see "Help Wanted" and "To Do" below). Contributions are welcome!

build  
 screenshot  
 demo

**Dependencies**

**1. First step**

**2. Second step**

macOS:

- Standard Apple developer toolchain (installed with Xcode)
- A recent version of CMake
  - You can get this via `brew install cmake` or by downloading from <https://cmake.org/download/>

Windows:

- Standard Microsoft developer toolchain (installed with Visual Studio)
- A recent version of CMake

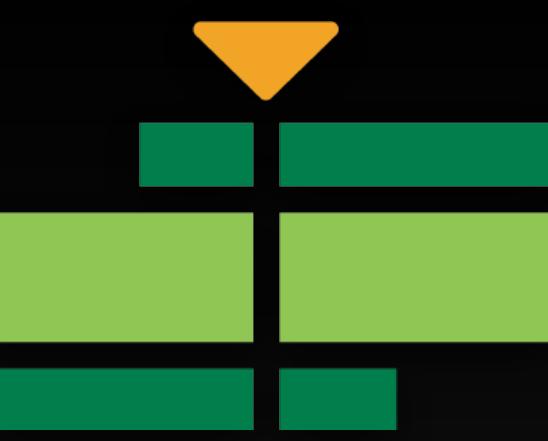
Linux (Ubuntu, or similar):

- `sudo apt-get install libglibfw3-dev libgtk-3-dev`
- A recent version of CMake

**Timeline Format Support**

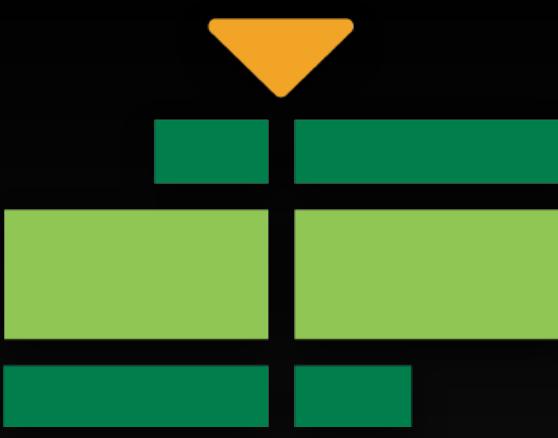
Different timeline formats have different features. This table shows which features are supported by each format.

Feature	OpenTimelineIO	AAF	ALE	EDL
User metadata Fields	✓	✓	P	
Arbitrary structured metadata on any object	✓	✗	✗	
Long source (reel/tape) names	✓	✓	✗	
Unicode	✓	✓	?	
Mixed Frame Rates	✓	✓	P	
Bins	✓	✓	✗	
Clips	✓	✓	✓	
URL-based sources	✓	✗	✗	
Image sequence sources	✓	✗	✗	
Generator Sources	Black/Bars Only	✗	Black/Bars Only	
Standard Library of Generators	Black/Bars Only	✗	Black/Bars Only	
Timelines	✓	✗	✓	
Multi-track timelines	✓	✗	✗	



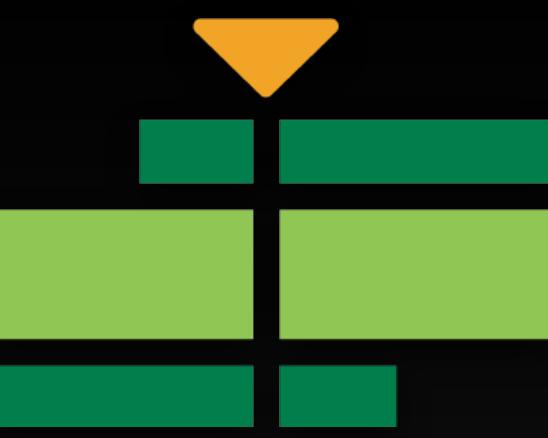
# High-Demand Schema Enhancements

- Source Media Stream/Channel selection
- Progress toward color effects
- Spatial Transform Effects



# 2024 Ecosystem Highlights

- Participated in the ASWF Panel at the HPA tech retreat
- NAB OpenTimelineIO Vendor working group meeting
- Dev Days 2024!
- Two new affiliated projects contributed by community members



# Dev Days 2024

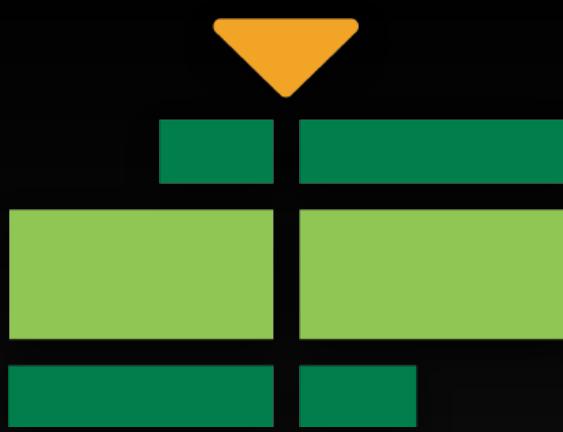
- 10 PRs submit
- 7 Merged
- Most attention on Raven - the OpenTimelineIO viewer app
- Honorable Mention: Two fixes for documentation and build modernization

The screenshot shows a software interface for project management, specifically for animation sequences. The top navigation bar includes links for Inbox, My Tasks, Media, Projects, All Pages, People, Apps, Resource Planning, and a search bar. The main title 'EMO: ANIMATION' is displayed above a menu bar with options like Overview, Custom Overview Page, Media, Assets, Shots, Tasks, Draft, Other, and Project Pages. Below the menu is a toolbar with buttons for Add Sequence, Sort, Group, Details, More, Pipeline, and a dropdown for Example. The main content area displays a table with columns: Sequence Code, Title, Status, Description, Assets, and Shots. A single row is visible, labeled 'Example Sequence' under Sequence Code, 'Title' under Title, 'Active' under Status, and 'Description' under Description. The Assets and Shots columns are empty. The bottom of the interface features a footer with links for Examples, Resources, and Help.

Sequence Code	Title	Status	Description	Assets	Shots
Example Sequence	Title	Active	Description		

# Full Sequence Example

# 2024 New Subprojects



OpenTimelineIO

Type / to search

Overview Repositories 25 Projects 1 Packages Teams 4 People 13 Insights Settings

Unfollow

OpenTimelineIO Editorial Interchange format and associated projects.

38 followers http://opentimeline.io otio-discussion@lists.aswf.io

README.md

View as: Public

You are viewing the README and pinned repositories as a public user.

Get started with tasks that most successful organizations complete.

Discussions

Set up discussions to engage with your community!

Turn on discussions

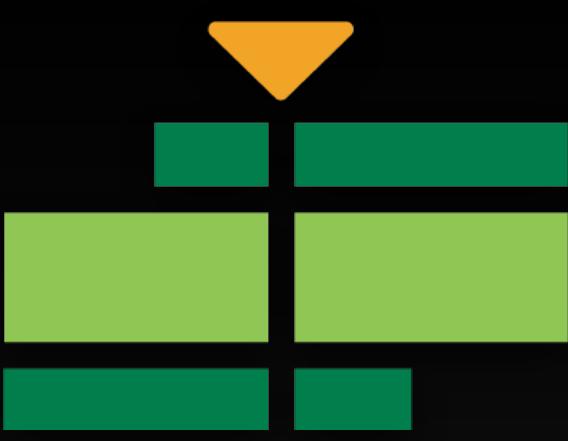
People

OpenTimelineIO

OpenTimelineIO is an interchange format and API for editorial cut information. OTIO contains information about the order and length of cuts and references to external media. It is not however, a container format for media.

The OpenTimelineIO github organization is a federation of repos relating to the [OpenTimelineIO core](#) project.

Repositories stored in this organization include adapters, language bindings (except python, which is [part of the core](#)), examples, and more.



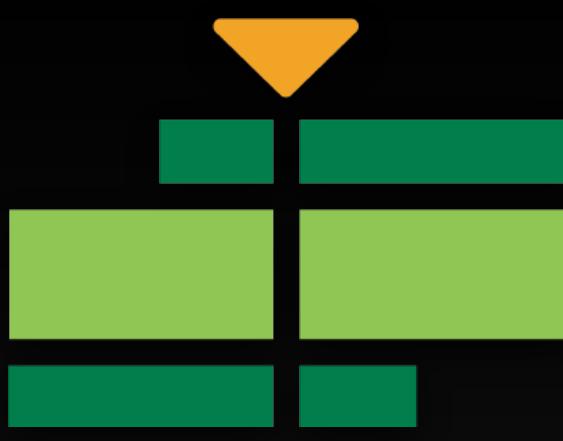
# Toucan

## Software OTIO Renderer

### by Darby Johnston



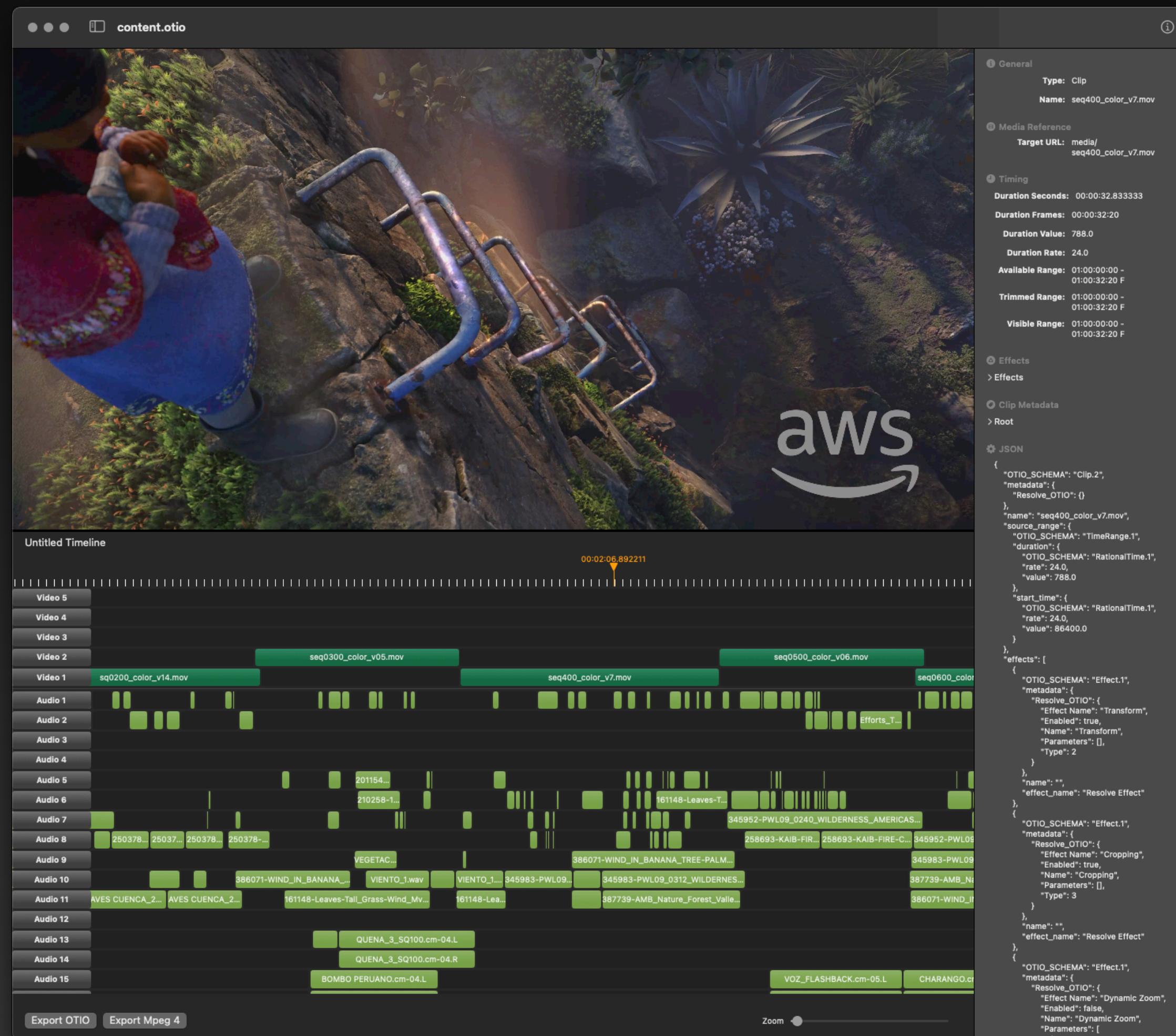
The screenshot shows the `toucan-view` application interface. The main view displays a large yellow circle containing the number "5". The interface includes a menu bar with File, Edit, Time, Playback, View, and Window options. A toolbar at the bottom has icons for play, stop, and frame navigation. The timeline at the bottom shows frames from 0 to 7, with frame 4 highlighted in yellow. The Graph tab in the Inspector panel shows a node graph for the "5" effect, starting with "Read: Counter.0.png" and "toucan:Fill", followed by "toucan:Invert", "toucan:Dissolve", and finally "Comp". The Counter track in the timeline is also labeled "Color".

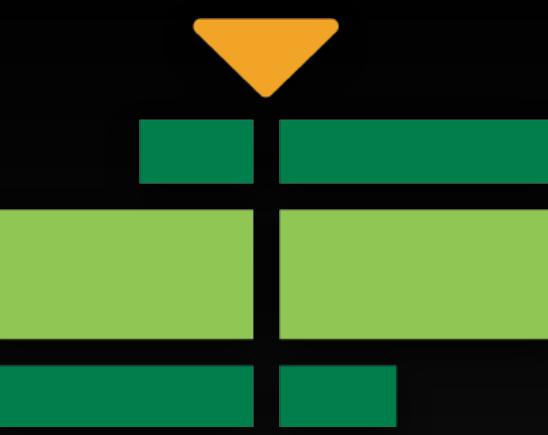


# OpenTimelineIO-AVFoundation

## Apple AVFoundation Framework Integration

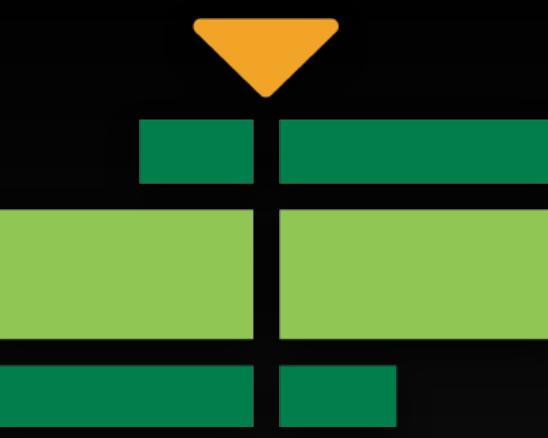
### by Anton Marini





# 2025 Focus

- Meet Requirements for ASWF Adoption
- Deliver Major Schema Enhancements
  - Basic Color Pipeline Modeling (CDL, LUT Reference, colorspaces)
  - Spatial Transforms
  - Input/Output Stream and Channel Mapping
- Create documentation for people other than engineers and TDs
- Begin discussing a future where EDL/ALE are no longer needed



# ASWF Project Lifecycle

## Incubation -> Adopted

- ✓ Demonstrate a substantial ongoing flow of commits and merged contributions, authored by a healthy number of diverse contributors\*.
- ✓ Demonstrable roadmap progress.
- ✓ A healthy number of public adopters that are identified within the project
  - ✓ ( using an ADOPTERS file or showcased on the project's website ).
- ✗ Have achieved and maintained a Core Infrastructure Initiative Best Practices Gold Level Badge

Currently at 90% Passing (*up from 82% last year*)

- ✓ Have a technical lead appointed for voting representation of the project to the TAC.
- 🙏 Be deemed by the TAC to add value to the mission of ASWF.
- 🙏 Obtain both a 2/3 supermajority vote of the TAC and an affirmative majority vote of the Governing Board



# A Sentimental Note...

Document details X

Location —

Owner Stephan Steinbach

Modified Jul 27, 2015 by Stephan Steinbach

Created Mar 3, 2014



OpenTimelineIO