



International
Image
Interoperability
Framework*

*** Now with AV!**

Andy Irving, British Library



A **model** for presenting and annotating
digital representations of objects

(with lots of other benefits)



A Community
that develops **shared APIs**,
implements them in **software**,
and exposes interoperable **content**

A Global Community



Why IIIF AV?

- Can we do for time-based media what IIIF already does for images and things made up of images?
- Describe complex AV works in an interoperable way, via a **manifest**
 - Access, viewing
 - Annotation
 - Search...
- Use IIIF to present time-based media consistently with image-based objects
- Benefit from same IIIF mechanisms for **linking**, **metadata**, **content search**, **access control**

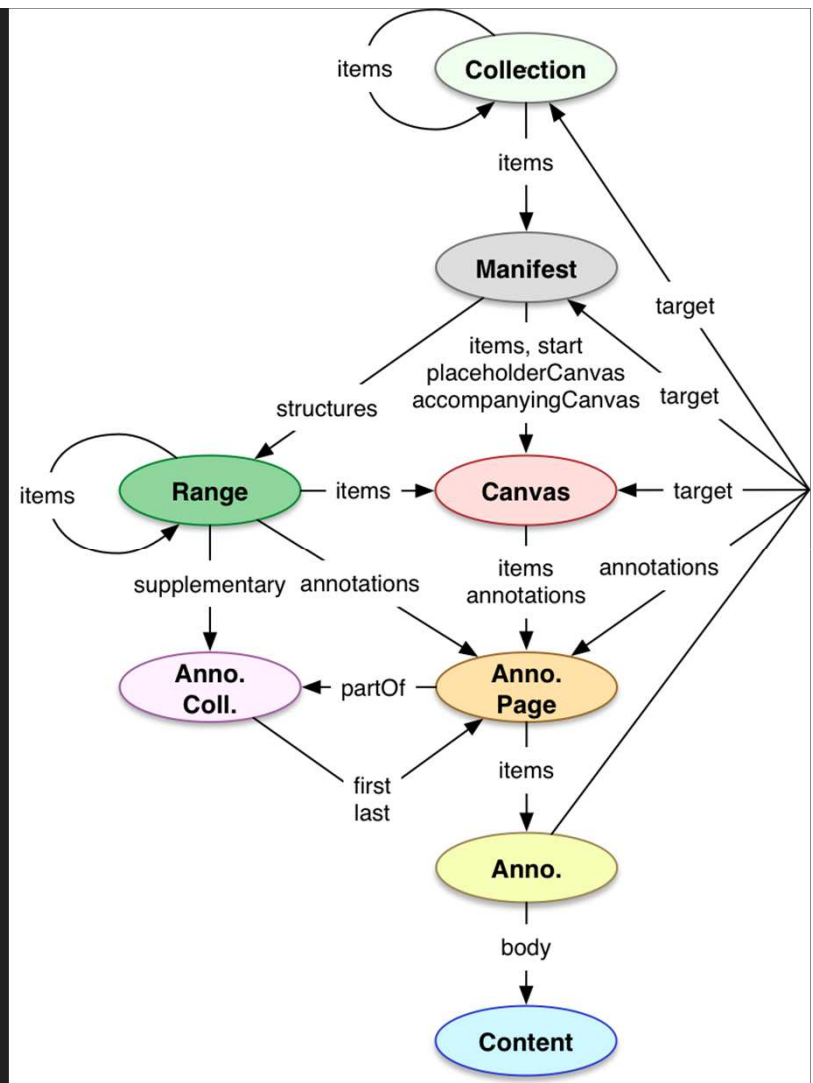
IIF Presentation API

Collection & **Manifest** are just *units of distribution*

Canvas describes an abstract space

Annotations all the way down

Range describes structure



For all that image and text content, we do this by assembling content on a 2D Canvas:

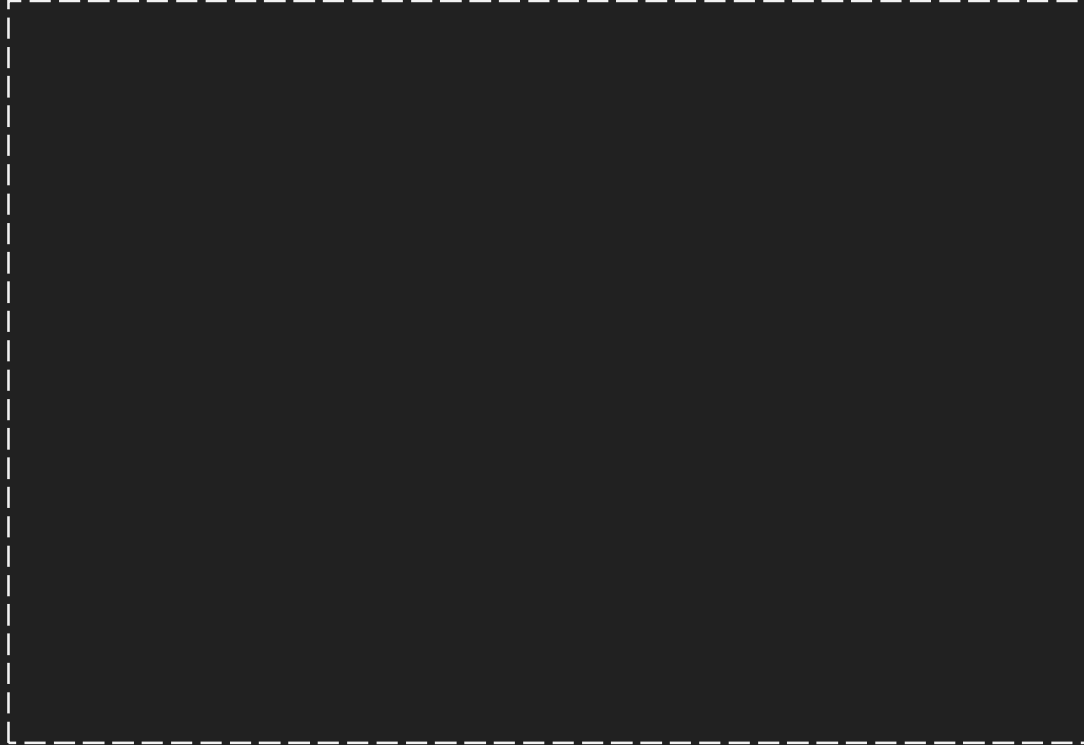
(0,0)



(3110, 2102)

Canvases can now have duration

(0,0)



(3110, 2102)



```
{  
  "id": "https://example.org/iiif/canvas-1",  
  "type": "Canvas",  
  "label": "My spatial and temporal canvas",  
  "width": 3110,  
  "height": 2102,  
  "duration": 3611.56  
}
```


What does that mean?

- It means the simplest (and most common) use case...
 - Just play the audio
 - Just play the video
- ...is as easy as its 2D equivalent – one image of a painting, etc.
- The content just fills the *canvas time* – the duration.
- But we also have the same toolkit for complex content association and description.
- And we NEED IT!

Features



Zoomable

OpenSeadragon image zooming using the [IIIF image API](#)



Embeddable

YouTube-style embedding with deep links to specific pages/zoom regions.



Themable

Fork the [UV theme](#) on github to create your own.



Configurable

The UV is highly configurable with an array of customisable settings.



Extensible

Supports **3D**, **audio**, **video**, and **pdf** viewing experiences.



Searchable

Supports **search** and **autocomplete** service integration with overlaid search results.



Translatable

Internationalised UI using [transifex.com](#)

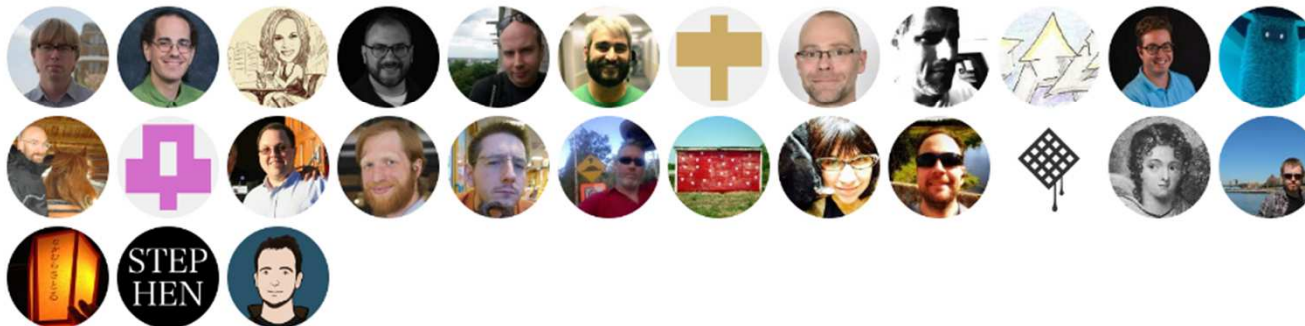


Securable

The UV supports the [IIIF Auth API](#), so your content can be password protected.






Contributors



The Universal Viewer is a community-developed open source project on a mission to help you share your content with the world <http://universalviewer.io>

Budget

See how money openly circulates through universalviewer. All contributions and all expenses are published in our transparent public ledger. Learn who is donating, how much, where is that money going, submit expenses, get reimbursed and more!

	Community Sprint #2 work PAID	- \$6,408.06 USD
	Mnemoscene 11/07/2019 View Details	
	Monthly donation to universalviewer (Backers)	+ \$5.00 USD
	Shaun Ellis 11/02/2019 View Details	
	Monthly donation to universalviewer (Sponsors)	+ \$100.00 USD
	Mnemoscene 11/01/2019 View Details	

TODAY'S BALANCE

\$1,770.87 USD

ESTIMATED ANNUAL BUDGET

~ \$16,438.70 USD

[View all transactions](#)
[View all expenses](#)

universalviewer is all of us

Our contributors 10

Everyone who has supported universalviewer. Individuals and organizations that believe in –and take ownership of– our purpose.

[All contributors](#)
[Core contributors](#)
[Financial contributors](#)

Say hello to my friend Ed

Lead developer of the Universal Viewer

Also wrote a helpful tool



edsilv / **biif**

Used by 11 Watch 6 Star 52 Fork 6

Code Issues 14 Pull requests 2 Actions Projects 0 Wiki Security Insights













Organise your files according to a simple naming convention to generate IIIF Presentation API json using nodejs (Dat and IPFS compatible)

iiif nodejs

301 commits 3 branches 0 packages 22 releases 1 contributor MIT

Branch: master New pull request

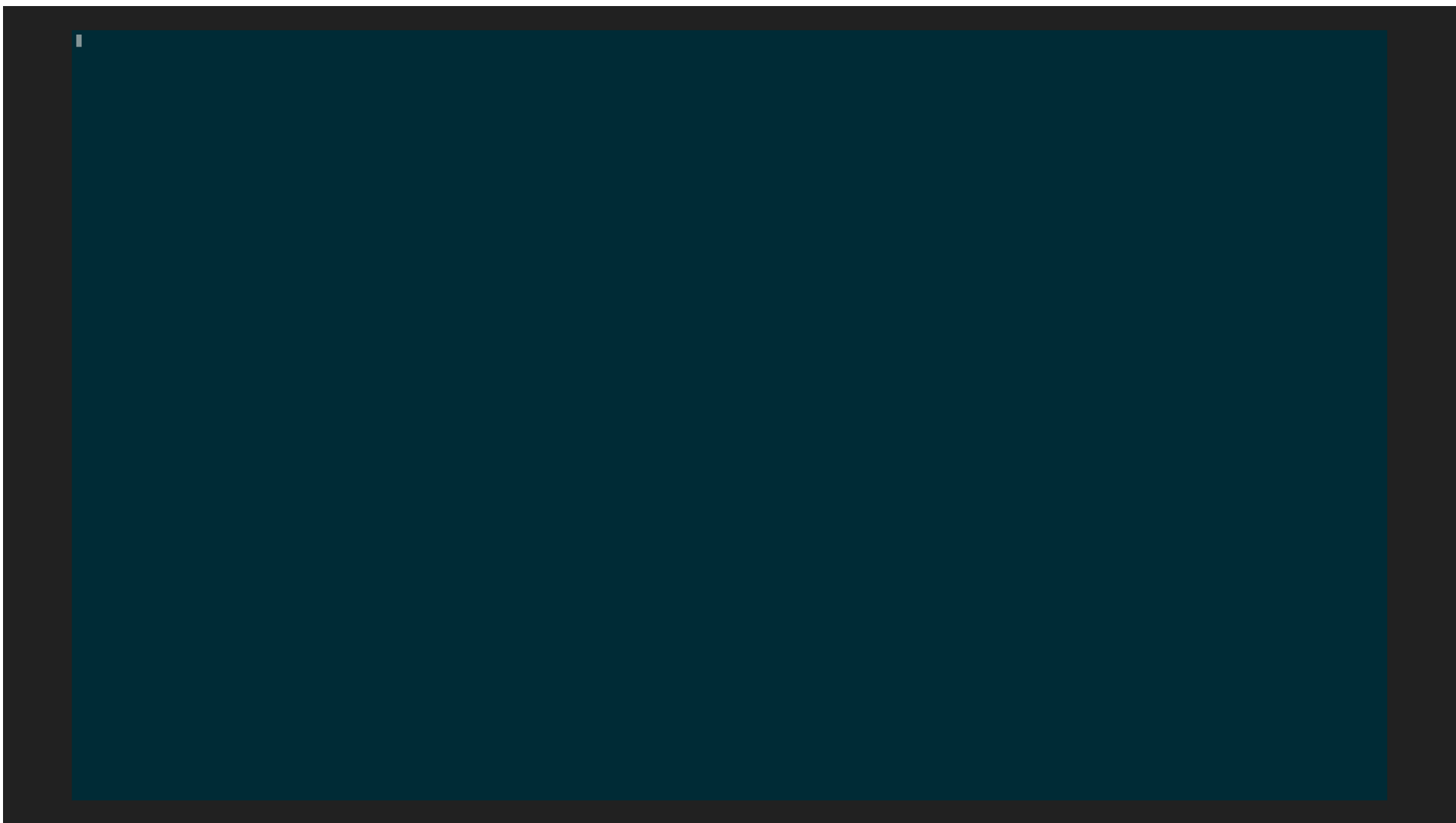
Create new file Upload files Find file Clone or download

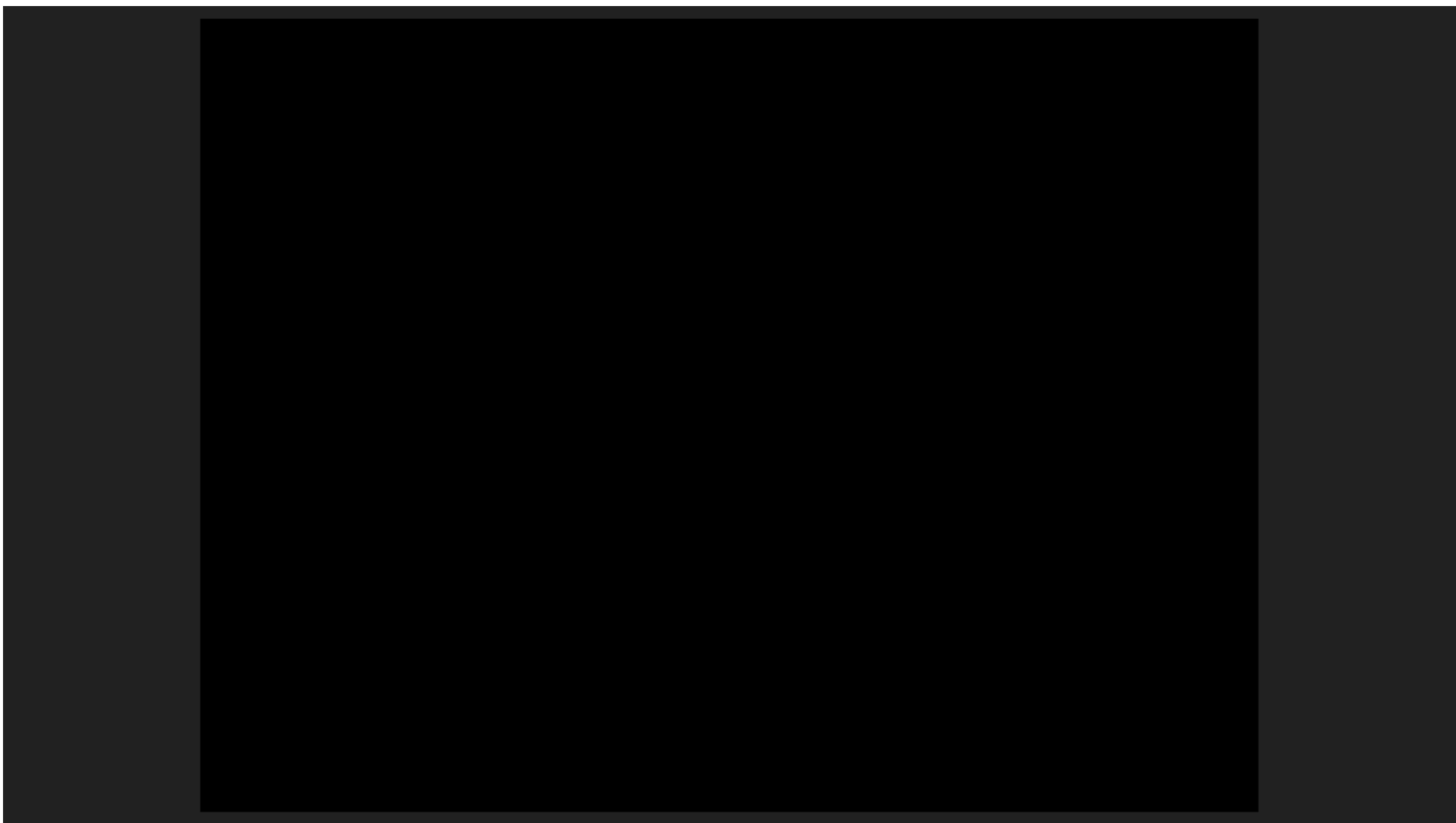
	edsilv updated readme	Latest commit 0511587 10 days ago
	.vscode include .vscode config	2 years ago
	boilerplate added test fixtures	last year
	test added epub support	10 days ago
	.gitignore added promises test, use Utils in tests to check files exist	2 years ago
	.npmignore npmignore vscode	2 years ago
	.travis.yml add dot	2 years ago
	Canvas.ts use @iiif/vocabulary commonjs distribution, use import instead of req...	7 months ago
	Directory.ts added epub support	10 days ago
	IConfigJSON.ts use @iiif/vocabulary commonjs distribution, use import instead of req...	7 months ago
	LICENSE.txt added license	2 years ago
	README.md updated readme	10 days ago

Scenario 1: Should be a cakewalk

I HAVE AN ACCESS COPY OF MY VIDEO

Copyright? YOLO!





Scenario 2: I don't want to get sued

Hey, aren't closed captions great?

```
1  WEBVTT
2
3  1
4  00:00:01.000 --> 00:00:03.000
5  Welcome Nicholas Cage
6
7  2
8  00:00:03.500 --> 00:00:17.000
9  [Some sweet music plays, with applause]
10
11  3
12  00:00:17.000 --> 00:00:19.000
13  Yeah!
14
15  4
16  00:00:22.000 --> 00:00:26.000
17  Well under... understatement's the watch word
18
```

JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

```
▼ items:
  ▼ 0:
    ▼ id: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario2/index.json/canvas/0/annotationpage/0"
    type: "AnnotationPage"
    ▼ items:
      ▼ 0:
        ▼ id: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario2/index.json/canvas/0/annotation/0"
        type: "Annotation"
        motivation: "painting"
        ▼ body:
          ▼ 0:
            ► id: "https://demo.tatsumakise...scenario2/_cage/cage.mp4"
            type: "Video"
            format: "video/mp4"
            ► label: {...}
          ▼ 1:
            ► id: "https://demo.tatsumakise...ario2/_cage/captions.vtt"
            type: "Text"
            format: "text/vtt"
            ► label: {...}
          ▼ target: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario2/index.json/canvas/0"
        ▼ label:
```

BBC



Well under... understatement's the watch word

Scenario 3: Behold my beautiful metadata

Clips are easy and this isn't better than youtube or vimeo, is it?



Generate Ranges #22

edsilv opened this issue on Apr 23, 2018 · 1 comment



edsilv commented on Sep 19, 2018

Owner

Author



targeting time-based media:

structures:

- Stories
 - _video1#t=100,200
 - _video1#t=200,300
 - _video1#t=300,400

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to join this conversation on GitHub. Already have an account? [Sign in to comment](#)



JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

```
0: "The majesty of Nicholas Cage"
▼ items:
  ▼ 0:
    ▼ id: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario3/index.json/range/1"
    type: "Range"
    ▼ label:
      ▼ @none:
        0: "Terry Wogan Introduces Nicholas Cage"
      ▼ items:
        ▼ 0:
          ▼ id: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario3/index.json/canvas/0#t=0,25.32"
          type: "Canvas"
        ▼ 1:
          ▼ id: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario3/index.json/range/2"
          type: "Range"
          ▼ label:
            ▼ @none:
              0: "Nicolas Cage in Never on Tuesday"
            ▼ items:
              ▼ 0:
                ▼ id: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario3/index.json/canvas/1#t=0,62.863"
                type: "Canvas"
```


CONTENTS



Nicolas Cage in Never on Tuesday

[Index](#)

[Thumbnails](#)

- ▣ The majesty of Nicholas Cage
 - Terry Wogan Introduces Nicholas Cage
 - [Nicolas Cage in Never on Tuesday](#)



⌵ MORE INFORMATION




00:31 / 01:29



00:34



You can always go “Full BL”



Loose Ends

There's

Song of

News

Saturday Review

My Dear Jim

News


The Archive Hour

Index


Thumbnails

- Loose ends 17/7/99
- Loose ends
 - There's a touch
 - Song of dreams
- [News May 2001]
- Saturday review
- My dear Jim - Letters to a friend [2]
- [News May 2001]
- The archive hour: Humph at 80

Side 1



Side 2



JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

```
▼ label:
  ▼ en:
    0: "There's a touch"
  ▶ metadata: [...]
  ▶ rendering: [...]
  ▼ items:
    ▼ 0:
      ▶ id: "https://api.bl.uk/metada...95.0x000004#t=560,741.28"
      type: "Canvas"
    ▶ 2: {}
  ▼ 3:
    ▼ id: "https://api.bl.uk/metadata/iiif/ark:/81055/vdc_100052359795.0x000008"
    type: "Range"
    ▼ label:
      ▼ en:
        0: "Song of dreams"
    ▶ metadata: [...]
    ▶ rendering: [...]
    ▼ items:
      ▼ 0:
        ▶ id: "https://api.bl.uk/metada...000004#t=1700.36,1914.84"
        type: "Canvas"
```

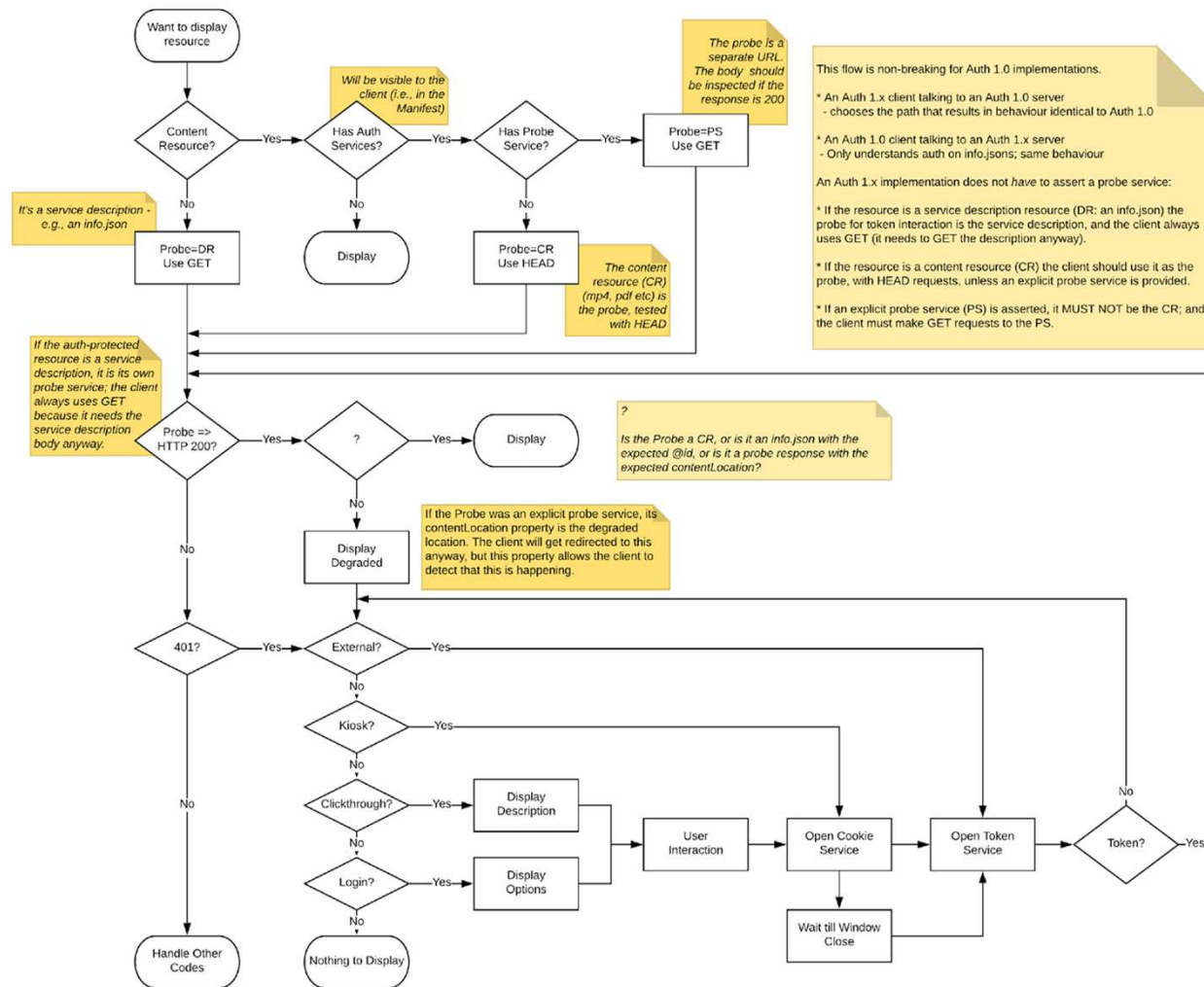
JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

```
    0: {}
  1: {}
  2:
    id: "https://api.bl.uk/metadata/iiif/ark:/81055/vdc_100052359795.0x00000e"
    type: "Range"
    label:
      en:
        0: "Saturday review"
    metadata: [...]
    rendering: [...]
    items:
      0:
        id: "https://api.bl.uk/metadata/iiif/ark:/81055/vdc_100052359795.0x000004#t=2661.56,3723.4"
        type: "Canvas"
      1:
        id: "https://api.bl.uk/metadata/iiif/ark:/81055/vdc_100052359795.0x000005#t=0,1585.16"
        type: "Canvas"
  3:
    id: "https://api.bl.uk/metadata/iiif/ark:/81055/vdc_100052359795.0x000011"
    type: "Range"
    label:
      en:
```

Scenario 4: I don't want to get sued, part 2

Probably not a great idea to make this open access without rights clearing it first, eh?



This flow is non-breaking for Auth 1.0 implementations.

* An Auth 1.x client talking to an Auth 1.0 server
- chooses the path that results in behaviour identical to Auth 1.0

* An Auth 1.0 client talking to an Auth 1.x server
- Only understands auth on info.json; same behaviour

An Auth 1.x implementation does not have to assert a probe service:

* If the resource is a service description resource (DR: an info.json) the probe for token interaction is the service description, and the client always uses GET (it needs to GET the description anyway).

* If the resource is a content resource (CR) the client should use it as the probe, with HEAD requests, unless an explicit probe service is provided.

* If an explicit probe service (PS) is asserted, it MUST NOT be the CR; and the client must make GET requests to the PS.



Please can I see this content?



Just a straight yes/no



Please can I see this content?



“Degraded” workflow

Fine I will log in and/or
move to Canada





Please can I see this content?



Having satisfied the requirements

Going further

Remember how everything is just an annotation?

JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

```
    type: "TextualBody"
    language: "en"
    value: "Welcome Nicholas Cage"
  ▼ target: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario4/index.json/canvas/0#t=0,3"
▼ 1:
  ▼ id: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario4/index.json/canvas/0/annotation/text/1"
  type: "Annotation"
  motivation: "painting"
  ▼ body:
    type: "TextualBody"
    language: "en"
    value: "[Some sweet music plays, with applause]"
  ▼ target: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario4/index.json/canvas/0#t=3.5,17"
▼ 2:
  ▼ id: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario4/index.json/canvas/0/annotation/text/2"
  type: "Annotation"
  motivation: "painting"
  ▼ body:
    type: "TextualBody"
    language: "en"
    value: "Well under... understatement's the watch word"
  ▼ target: "https://demo.tatsumakisenpuukyaku.com/nttw/scenario4/index.json/canvas/0#t=22,16"
```

Étude in F Minor

Page 1 Page 2 Page 3 Page 4

01:25

01:55

Sources

Valentina Lisitsa



41 *cresc.*

45 *con forza* *fz*

49 *cre-scen-do* *e stretto*

53

Simple IIIF Interactive Transcript - BBC TextAV

Get Random Manifest

<https://tomcrane.github.io/bbctextav/iiif/ID19409900.json>

Parse Manifest

View Manifest

12.12.2017: 4. Sitzung, TOP: 9, ZP 3, 4: Glyphosat



00:01 - 00:03

Vielen Dank. –

00:03 - 00:07

Ich bin direkt angesprochen worden und will hier etwas korrigieren.

00:07 - 00:09

Es ist eben vorgetragen worden,

00:09 - 00:12

dass die Kommission Tallowamin als Beimittel für Glyphosat verboten habe.

00:12 - 00:13

Das ist nicht richtig.

00:13 - 00:15

Sie hat lediglich das Verbot empfohlen.

JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

```
  id: "https://tomcrane.github.io/bbctextav/iiif/text-3"
  motivation: "supplementing"
  ▼ target: "https://tomcrane.github.io/bbctextav/iiif/ID191002001/canvas#t=26.32,27.44"
  type: "Annotation"
  ▼ 3:
    ▼ body:
      language: "de"
      type: "TextualBody"
      value: "Herr Bundespräsident,"
    id: "https://tomcrane.github.io/bbctextav/iiif/text-4"
    motivation: "supplementing"
    ▼ target: "https://tomcrane.github.io/bbctextav/iiif/ID191002001/canvas#t=27.44,44.92"
    type: "Annotation"
  ▼ 4:
    ▼ body:
      language: "de"
      type: "TextualBody"
      ▼ value: "dass Sie unter uns sind und dieser Konstituierung beiwohnen."
    id: "https://tomcrane.github.io/bbctextav/iiif/text-5"
    motivation: "supplementing"
    ▼ target: "https://tomcrane.github.io/bbctextav/iiif/ID191002001/canvas#t=44.92,49.64"
    type: "Annotation"
```


HIGH PERFORMANCE SOUND TECHNOLOGIES FOR ACCESS AND SCHOLARSHIP



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AudiAnnotate

[History](#) | [Overview](#) | [Collaborators and Advisory Board](#)

The AudiAnnotate Project has been awarded a [2019 Digital Extension Grant from the American Council of Learned Societies](#) to build on existing efforts by the HiPSTAS project and [Brumfield Labs](#) to produce and share (1) a web application to help scholars to create IIIF-AV annotations; (2) documentation that describes three different use cases that leverage this workflow in scholarship on poetry performance recordings; and (3) a workshop for sharing this work. The developed application and workflows will help users to translate their own analyses of audio recordings into media annotations that will be publishable as

Contact

[hipstasinfo\[at\]utlists.utexas.edu](mailto:hipstasinfo[at]utlists.utexas.edu)

Search

To search, type and hit enter

Recent Posts

- [Introducing the HiPSTAS Audio Toolkit Workflow: Audio Labeling](#)
- [Using ARLO in the History of Modern Latin America Archives](#)
- [HiPSTAS NEH Institute Final White Paper](#)

Please get involved!

<https://iiif.io/>

Join in the discussion group!

<https://groups.google.com/forum/#!forum/iiif-discuss>

Join the discussion on slack!

<http://bit.ly/iiif-slack>

Join in our bi-weekly community call

<https://iiif.io/community/call>

And in UV too!

Join the slack!

<https://universalviewerinvite.herokuapp.com/>

Sponsor the project!

<https://opencollective.com/universalviewer>

Or just feel free to help!

<https://github.com/UniversalViewer/universalviewer>

Thanks!
Questions?

