Standards and Best Practices related to the Publication, Exchange, and Usage of Open Data

Marcia Zeng Kent State University Marjorie Hlava & Bob Kasenchak Access Innovations

Jane Greenberg Drexel University Mark Needleman ASIS&T Standards Committee co-Chair

ASIS&T 2017

<u> https://www.asist.org/about/board/committees/standards-committee/</u>



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Standards Committee

Standards Committee

Standards Committee Activities 2017 Standards Committee Activities 2016 Standards Committee Activities 2015 Standards Committee Activities 2014 Standards Committee Activities 2013 The Standards Committee shall advise the Board of Directors and shall represent the Association's interest in matters pertaining to standards. It shall actively identify potential new standards needed by the information community and shall take the necessary steps to initiate development of such needed standards with the appropriate organizations. The Chair, after consultation with the full committee, may vote or comment in accordance with the majority opinion of the committee in the name of the Association on all proposed standards submitted by organizations with which the Association affiliates. All such action and comment must be promptly reported to the Board of Directors; actions and comments proposed should be reported to the board in advance whenever possible.

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Standards Committee Activities 2014

Standards Committee Activities 2013

Standards Committee Activities 2012

Standards Committee Activities 2010-2011

Last updated 10/19/2017

1. Voted **YES** N921, NWIP, Guidelines for Bibliographic reference 42 citations to information

Question:

Do you approve, disapprove, or abstain on this NWIP (New Wo Proposal – ISO TC 46-SC 9, N921, Guidelines for Bibliographic and citations to information resources?

Description:

This International Standard gives guidelines for the preparatio bibliographic references. It also gives guidelines for the prepar citations in Latin scripts in works that are not themselves prim bibliographical. It is applicable to bibliographic references and to all kinds of information resources, including but not limited t monographs, serials, contributions, patents, cartographic mate electronic information resources (including research datasets, computer software and social media), music, recorded sound, photographs, graphic and audiovisual works, and moving imag applicable to machine-parsable citations. It is also not applical citations, which have their own standards.

Last updated

Casted votes 43 times

42. Voted **APPROVE** on ISO TC 46/SC 4, ISO/FDIS 18626 (Ed 2)– Information and documentation, Interlibrary loan transactions

Question:

Do you approve the technical content of the final draft?

Description:

This document specifies the transactions between libraries or libraries and other agencies to handle requests for library items and the following exchange of messages.

43. Voted **YES** on TC46/SC9 Ballot on the withdrawal of ISO/NP 15707, Information and documentation – International Standard Musical Work Code (ISWC)

Question:

Based on this recommendation, should TC46/SC9 withdraw the project to revise ISO 15707 and disband TC46/SC9/WG2?

Description:

Standards and Best Practices related to the Publication, Exchange, and Usage of Open Data

- Data On The Web
- Image-based Resources

Marcia Zeng Kent State University

mzeng@kent.edu

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ASIS&T 2017

PUBLISHING AND SHARING DATA ON THE WEB

The openness and flexibility of the Web have created

- new opportunities &
- new challenges
- Data <u>publishers</u> and data <u>consumers</u> may be unknown to each other.

How to represent, describe, and make data available (by <u>publishers</u>) in a way that it will be easily found, understood, used and re-used (by <u>consumers</u>)?

Are there standards and best practices?



THE IMPORTANCE OF FOLLOWING THE BEST PRACTICES

Providing some information about the datasets and distributions will contribute to <u>trustworthiness</u> and <u>reuse of</u>:

- structural metadata,
- descriptive metadata,
- access information,
- data quality information,
- provenance information,
- license information, and
- usage information.



I. Data On The Web Best Practices W3C Recommendation 31 January 2017

 -- Best Practices related to the publication and usage of data on the Web designed to help support a self-sustaining ecosystem.

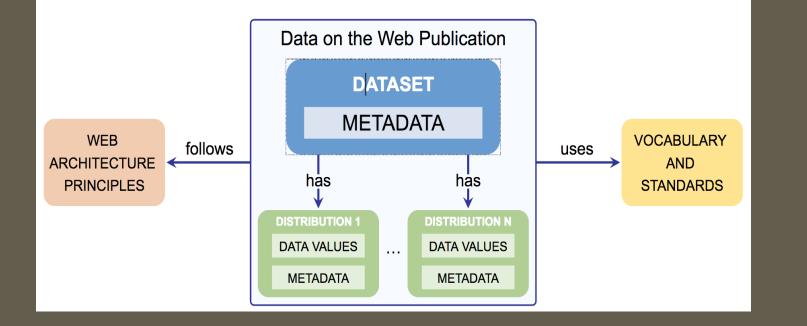


Image source: https://www.w3.org/TR/dwbp/

The Best Practices Running Example Metadata Data Licenses Data Provenance Data Quality Data Versioning Data Identifiers Data Formats Data Vocabularies Data Access Data Access APIs Data Preservation Feedback Data Enrichment Republication

- - 7. Best Practices Summary

Best Practices Template

Namespaces

- 8. The Best Practices
- 8.1 Running Example

Scope

Context

- 8.2 Metadata
- 8.3 Data Licenses
- 8.4 Data Provenance
- 8.5 Data Quality
- 8.6 Data Versioning
- 8.7 Data Identifiers
- 8.8 Data Formats
- 8.9 Data Vocabularies
- 8.10 Data Access
- 8.10.1 Data Access APIs
- 8.11 Data Preservation
- 8.12 Feedback
- 8.13 Data Enrichment
- 8.14 Republication
- 9. Glossary
- 10. Data on the Web Challenges
- 11. Best Practices Benefits
- 12. Use Cases Requirements x Best Practices
- A. Acknowledgements
- B. Change history
- C. References

C.1

Informative references

6. Best Practices Template

This section presents the template used to describe Data on the Web Best Practices.

Best Practice Template

Short description of the BP

Why

This section answers two crucial questions:

- Why this is specifically relevant to publishing or reusing data on the Web?
- · How does this encourage publication or reuse of data on the Web?

A full text description of the problem addressed by the Best Practice may also be provided. It can be any length but is likely to be no more than a few sentences.

Intended Outcome

What it should be possible to do when a data publisher follows the Best Practice.

Possible Approach to Implementation

 (\mathbf{C})

Comprehensio

A description of a possible implementation strategy is provided. This represents the best advice available at the time of writing but specific circumstances and future developments may mean that alternative implementation methods are more appropriate to achieve the intended outcome.

How to Test

Information on how to test the BP has been met. This might or might not be machine testable.

Evidence

Information about the relevance of the BP. It is described by one or more relevant requirements as documented in the Data on the Web Best Practices Use Cases & Requirements document [DWBP-UCR]

Benefits

A <u>benefit</u> represents an improvement in the way how datasets are available on the Web. A Best Practice can have one or more benefits.

 (P)

Benchmarks

- Reuse
- Comprehension
- Linkability
- Discoverability
- Trustiness
- Accessibility
- Interoperability
- Processability

Benefits that data publishers will gain with adoption of the <u>Best Practices</u>

REUSE

All Best Practices

ACCESS

Provide bulk download

Provide Subsets for Large Datasets

Use content negotiation for serving data available in multiple formats

Provide real-time access

Provide data up to date

Make data available through an API

Use Web Standards as the foundation of APIs

Provide Complementary Presentations

PROCESSABILITY

Provide metadata

Provide structural metadata

Use machine-readable standardized data formats

Provide data in multiple formats

Reuse vocabularies, preferably standardized ones

Provide Subsets for Large Datasets

Make data available through an API

Use Web Standards as the foundation of APIs

Enrich data by generating new data

INTEROPERABILITY

Use persistent URIs as identifiers of datasets

Use persistent URIs as identifiers within datasets

Reuse vocabularies, preferably standardized ones

Choose the right formalization level

Make data available through an API

Use Web Standards as the foundation of APIs

Avoid Breaking Changes to Your API

Provide Feedback to the Original Publisher

https://www.w3.org/TR/dwbp/

(cont.) Benefits that data publishers will gain with adoption of the <u>Best Practices</u>

DISCOVERABILITY

Provide metadata

Provide descriptive metadata

Use persistent URIs as identifiers of datasets

Use persistent URIs as identifiers within datasets

Assign URIs to dataset versions and series

Use Web Standards as the foundation of APIs

Cite the Original Publication

TRUST

Provide data license information

Provide data provenance information

Provide data quality information

Provide a version indicator

Provide version history

Assign URIs to dataset versions and series

Reuse vocabularies, preferably standardized ones

Provide an explanation for data that is not available

Provide complete documentation for your API

Avoid Breaking Changes to Your API

Preserve identifiers

Assess dataset coverage

Gather feedback from data consumers

Make feedback available

Enrich data by generating new data

Provide Complementary Presentations

Provide Feedback to the Original Publisher

Follow Licensing Terms

Cite the Original Publication

LINKABILITY

Use persistent URIs as identifiers of datasets

Use persistent URIs as identifiers within datasets

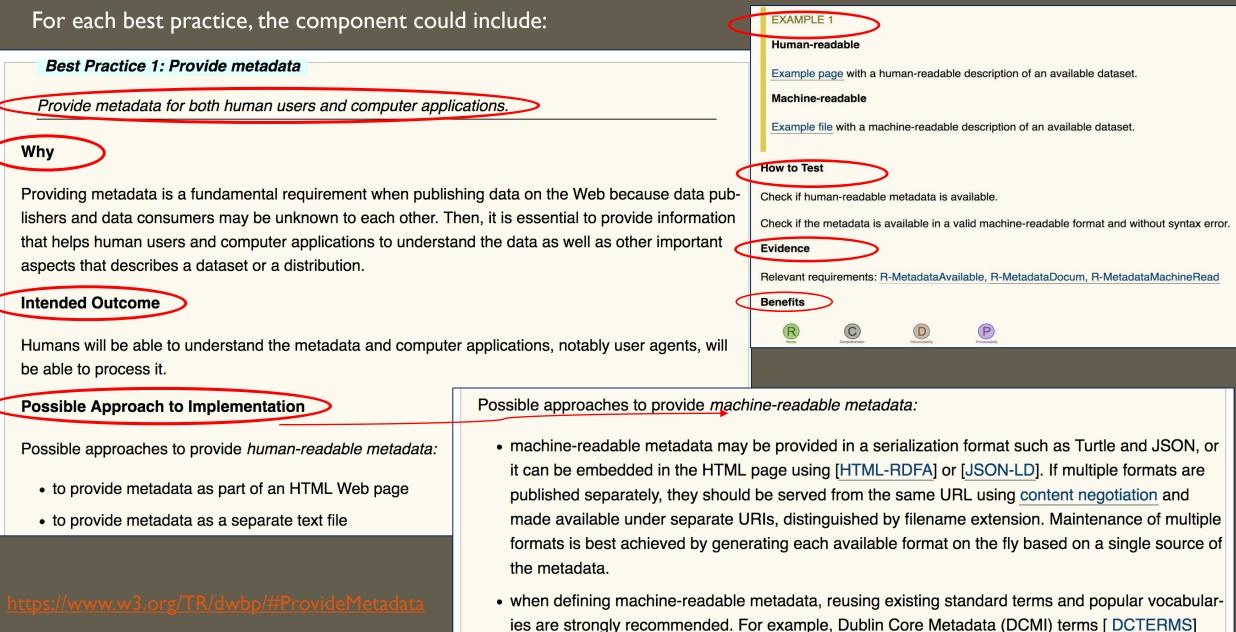
Provide Subsets for Large Datasets

Use Web Standards as the foundation of APIs

COMPREHENSION

Provide metadata Provide descriptive metadata Provide structural metadata Provide data provenance information Use locale-neutral data representations Reuse vocabularies, preferably standardized ones Choose the right formalization level Gather feedback from data consumers Enrich data by generating new data Provide Complementary Presentations

https://www.w3.org/TR/dwbp/



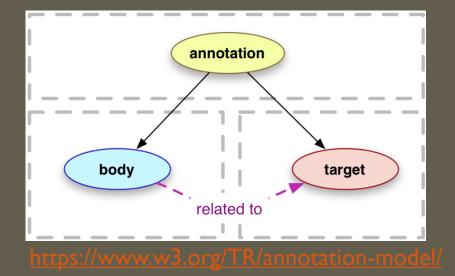
ies are strongly recommended. For example, Dublin Core Metadata (DCMI) terms [<u>DCTERMS</u>] and Data Catalog Vocabulary [<u>VOCAB-DCAT</u>] can be used to provide descriptive metadata. Such vocabularies are designed to be very flexible so it is often helpful to use a specific *profile* of a vocabulary such as the European Commission's <u>DCAT-AP</u> <u>https://www.w3.org/TR/dwbp/</u>

2. WEB ANNOTATION

Annotations are typically used to convey <u>information about</u> a resource or <u>associations between</u> resources. Simple examples include *a comment or tag* on a single web page or image, or *a blog post* about a news article.

Web Annotation Data Model

- W3C Recommendation 23 February 2017
 - -- a structured model and format to enable annotations to be shared and reused across different hardware and software platforms.



Web Annotation Vocabulary

- W3C Recommendation 23 February 2017
- -- specifies the set of <u>RDF classes</u>, <u>predicates and named entities</u> that
 are used by the Web Annotation Data Model.

Web Annotation Protocol

- W3C Recommendation 23 February 2017
- -- The Protocol describes the transport mechanisms for creating and managing annotations in a <u>method</u> that is consistent with the Web Architecture and REST best practices.

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W3C Recommendation

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- 3. Web Annotation Framework Annotations 3.1 3.2 Bodies and Targets 3.2.1 **External Web Resources** 3.2.2 Classes 3.2.3 Segments of External Resources 3.2.4 Embedded Textual Body 3.2.5 String Body 3.2.6 Cardinality of Bodies and Targets 3.2.7 **Choice Between Bodies** 3.3 **Other Properties** 3.3.1 Lifecycle Information 3.3.2 Agents 3.3.3 Intended Audience 3.3.4 Accessibility of Content
 - 3.3.5 Motivation and Purpose
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 - 3.3.7 Other Identities

3.3.5 Motivation and Purpose

In many cases it is important to understand the reasons why the Annotation was created, or why the Textual Body was included in the Annotation, not just the times and agents involved. These reasons are provided by declaring the motivation for the Annotation's creation or the purpose for the inclusion of the Textual Body in the Annotation; the "why" rather than the "who" and "when" described in the previous sections.

Example Use Case: Noelle annotates a resource intending to bookmark it for future reference, and provides a description and a tag to make it easier to find again. Her client adds the right motivations to the Annotation and the Textual Body resources to capture this.

Web Annotation Data Model

//www.w3.org/TR/annotation-model/

the Textual Bo	ody resources t	to capture this.				
Model			assessing	1		
Term	Туре	Description				
motivation	Relationship	The relationship between an Annotation and a Motivation. There should be exactly 1 motivation for each Annotation, and	bookmarkin	; I		
		than 1.	classifying	ľ		
purpose	Relationship	The reason for the inclusion of the Textual Body within the Annot There may be 0 or more purposes associated with a Textual Bo	commenting	1		
Motivation						
		to a related resource.	editing			
_	Example EXAMPLE	15: Motivation and Purpose	highlighting	l		
		annotation	identifying	I		
			linking	I		
			moderating	I		
	boo	dy target ptio	questioning	I		
		related to	replying	I		
			tagging	I		

		Motivations
sing	Instance	The motivation for when the user intends to assess the target resource in some way, rather than simply make a comment about it. For example to write a review or assessment of a book, assess the quality of a dataset, or provide an assessment of a student's work.
narkin	Instance	The motivation for when the user intends to create a bookmark to the Target or part thereof. For example an Annotation that bookmarks the point in a text where the reader finished reading.
fying	Instance	The motivation for when the user intends to classify the Target as something. For example to classify an image as a portrait.
enting	Instance	The motivation for when the user intends to comment about the Target. For example to provide a commentary about a particular PDF document.
ibing	Instance	The motivation for when the user intends to describe the Target, as opposed to (for example) a comment about it. For example describing the above PDF's contents, rather than commenting on their accuracy.
9	Instance	The motivation for when the user intends to request a change or edit to the Target resource. For example an Annotation that requests a typo to be corrected.
ghting	Instance	The motivation for when the user intends to highlight the Target resource or segment of it. For example to draw attention to the selected text that the annotator disagrees with.
iying	Instance	The motivation for when the user intends to assign an identity to the Target. For example to associate the IRI that identifies a city with a mention of the city in a web page.
3	Instance	The motivation for when the user intends to link to a resource related to the Target.
rating	Instance	The motivation for when the user intends to assign some value or quality to the Target. For example annotating an Annotation to moderate it up in a trust network or threaded discussion.
ioning	Instance	The motivation for when the user intends to ask a question about the Target. For example to ask for assistance with a particular section of text, or question its veracity.
ng	Instance	The motivation for when the user intends to reply to a previous statement, either an Annotation or another resource. For example providing the assistance requested in the above.
ıg	Instance	The motivation for when the user intends to associate a tag with the Target.

3. OTHER NOTABLE W3C RECOMMENDATIONS

3.1 Webmention

- W3C Recommendation 12 January 2017
- -- a simple way to notify any URL <u>when you</u> <u>mention it on your site</u>.
- -- From the receiver's perspective, it's a way to request notifications when other sites mention it.

3.2 Micropub

- W3C Proposed Recommendation 13 April 2017
- -- the protocol is used to <u>create</u>, <u>update and delete</u> <u>posts</u> on one's own domain using third-party clients.
- -- Web apps and native apps (e.g., iPhone, Android) can use Micropub to <u>post and edit</u> articles, short notes, comments, likes, photos, events or other kinds of posts on your own website.

(CONT.) 3. OTHER NOTABLE RECOMMENDATIONS

3.3 Linked Data Notifications

W3C Recommendation 2 May 2017

- -- a protocol that describes
 - how servers <u>(receivers)</u> can have messages pushed to them by applications <u>(senders)</u>,
 - how other applications <u>(consumers)</u> may retrieve those messages.
- Any resource can advertise a receiving endpoint (Inbox) for the messages.
 - Messages are expressed in RDF, and can contain any data.

3.4 Subresource Integrity

W3C Recommendation 23 June 2016

 -- a mechanism by which user agents may verify that a fetched resource has been delivered without unexpected manipulation.

4. International Image Interoperability Framework (IIIF)

http://iiif.io/

The following slides are based on:

- Sanderson, Rob (2015) "Introduction to the Presentation API" <u>http://www.slideshare.net/azaroth42/iiif-presentation-api</u>;
 "Introduction to IIIF" <u>http://www.slideshare.net/azaroth42/introduction-to-iiif</u>;
- Warner, Simeon (2015) "IIIF Introduction and Opportunities at Cornell" <u>http://www.slideshare.net/simeonwarner/2015-01-</u> <u>cornellvrwgiiif</u>;
- Robson, Glen (2017) "Introduction to Annotation, Content Search, and IIIF Authentication from the IIIF Conference The Vatican" <u>https://www.slideshare.net/GlenRobson/introduction-to-annotation-content-search-and-iiif-authentication-from-the-iiif-conference-the-vatican</u>
- Cramer, Tom (2017) "03 Introduction to IIIF" <u>https://www.youtube.com/watch?v=EE1YskDrzPs</u>
- IIIF Website specifications & showcases and <u>https://www.youtube.com/channel/UClcQlkLdYra7ZnOmMJnC5OA</u>

International Image Interoperability Framework



Image-based Resources

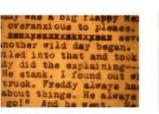


Books



Art / Vis. Resources





Archival Materials



Newspapers

Maps

No. add avantag STEESSON DURA 100 000 - -----この シンシンシンシンシン בבל ללל אמלטטל הללי ------CHARGE STREET, and the house of the set bearing an and south inwithing debetrated and いいの方形の方形になったが a first prophy page pla

(Sheet) Music



STEM Imagery

IIIF Vision

Create a global framework by which image-based resources (images, books, maps, scrolls, manuscripts, musical scores, etc.)

... from any participating institution can be delivered in a standard way

...via any compatible image server

... for display, manipulation and annotation in any application,

... to any user on the Web.



API= application programming interface, a set of routines, protocols, and tools for building software applications.

1.2.Image APIPresentation API

Get images via a simple, RESTful, web service.

Support for tiles needed for pan-zoom viewers.

Just enough metadata to drive a remote viewing experience.

(e.g. sequence, labels, attribution, license)

3. Authentication API

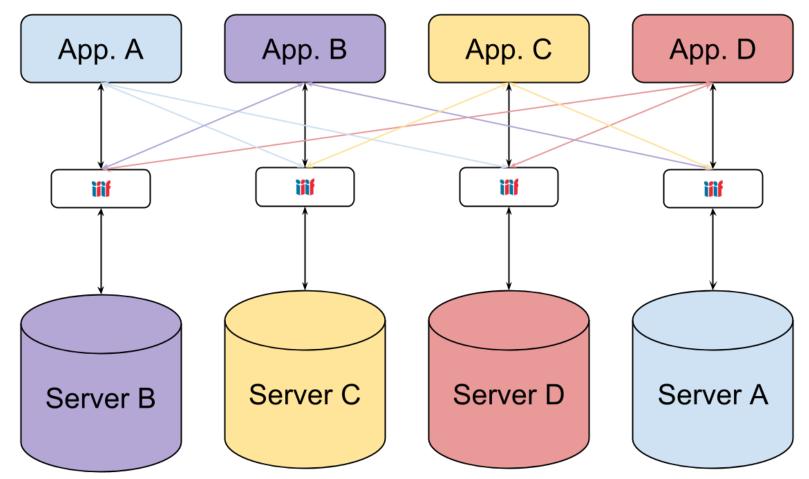
A set of workflows for guiding the user through an *existing* access control system.

4. Content Search API

Searching annotation content, not metadata.

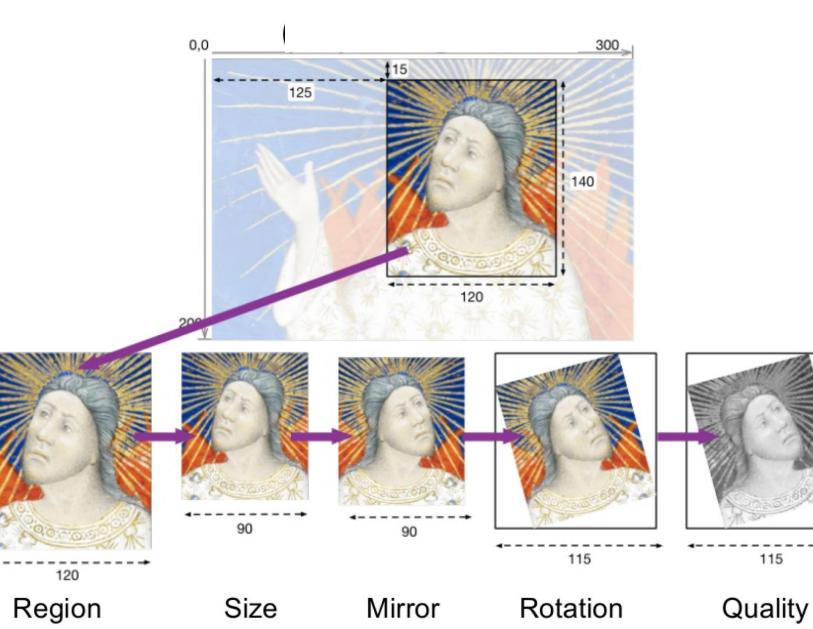


Facilitate distributed access over standard APIs



Allowing distributed access over standard APIs allows users to reuse and remix content, and supports an ecosystem of applications. Strong IIIF community: national libraries, research institutions, museums, aggregators, projects.





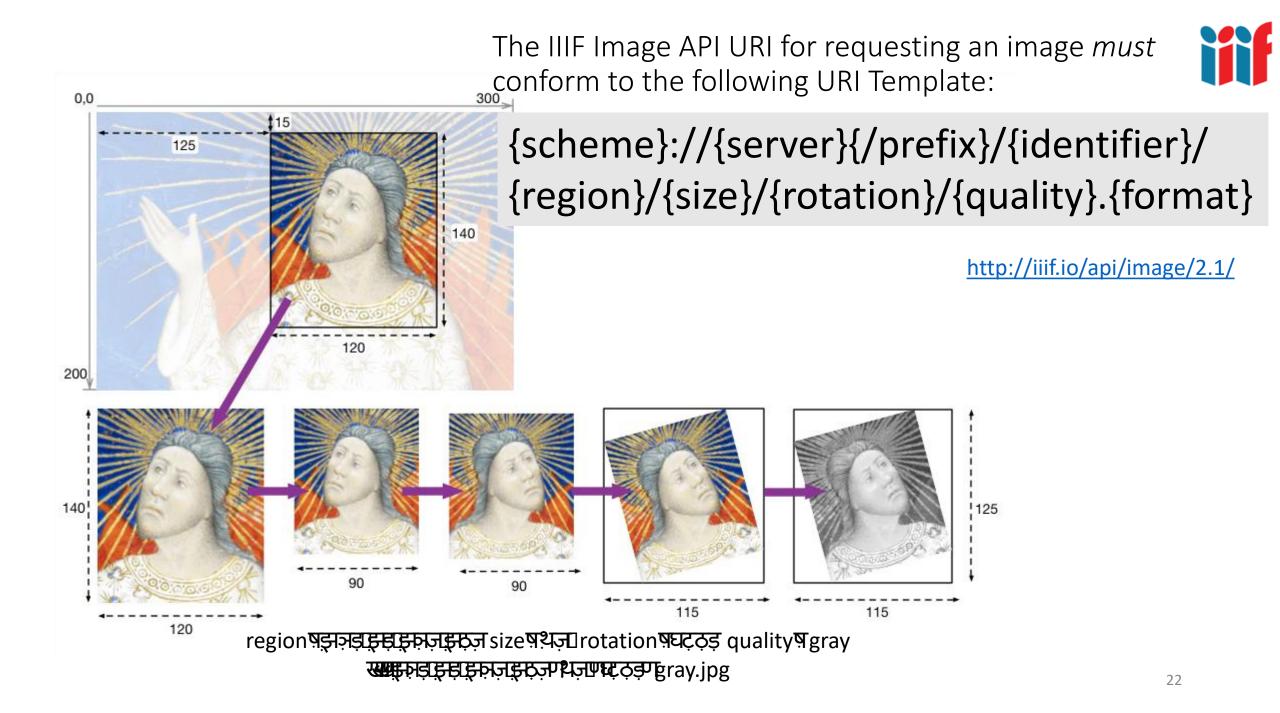
140

IIIF Image API

125

 specifies a web service that returns an image in response to a standard HTTP or HTTPS request.

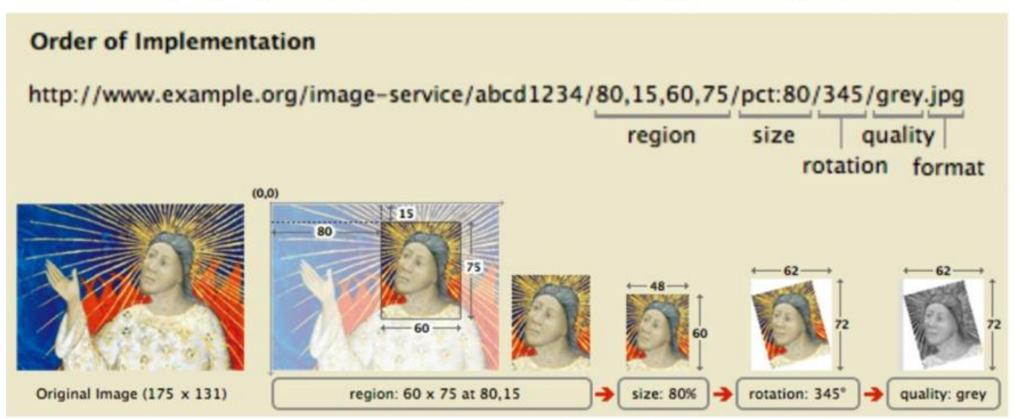
The URI can specify the region, size, rotation, quality characteristics and format of the requested image.





Base URL: {scheme}://{host}{/prefix}/{identifier}
Image Resource:

{base}/{region}/{size}/{rotation}/{quality}.{format}



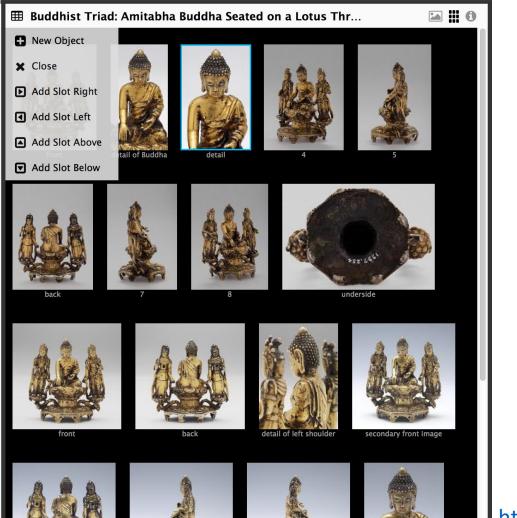
Not just scanned pages: Images of 3D objects

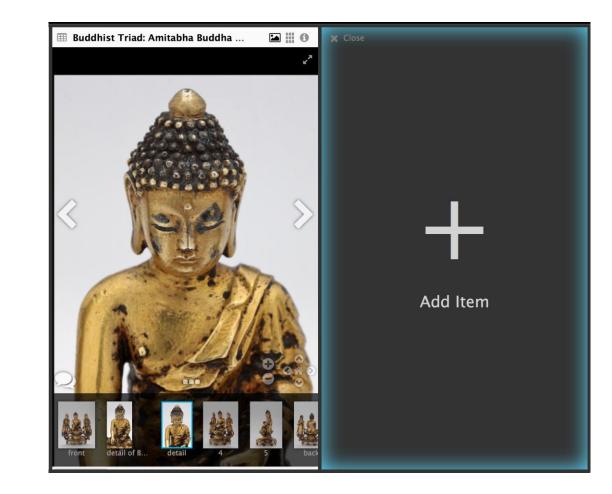




Photo: Jeffrey Emanuel Thanks to Harvard's Fogg Museum and Rashmi Singhal







https://github.com/IIIF/mirador

http://projectmirador.org/demo/#aba693db-5073-4bcc-a855-9925fa3168d4

IIIF PRESENTATION API

2.1. Basic Types

This specification makes use of the following primary resource types:

Manifest

The overall description of the structure and properties of the digital representation of an object. It carries information needed for the viewer to present the digitized content to the user, such as a title and other descriptive information about the object or the intellectual work that it conveys. Each manifest describes how to present a single object such as a book, a photograph, or a statue.

Sequence

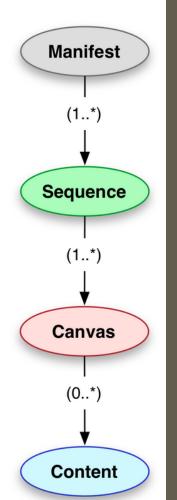
The order of the views of the object. Multiple sequences are allowed to cover situations when there are multiple equally valid orders through the content, such as when a manuscript's pages are rebound or archival collections are reordered.

Canvas

A virtual container that represents a page or view and has content resources associated with it or with parts of it. The canvas provides a frame of reference for the layout of the content. The concept of a canvas is borrowed from standards like PDF and <u>HTML</u>, or applications like Photoshop and Powerpoint, where the display starts from a blank canvas and images, text and other resources are "painted" on to it.

Content

Content resources such as images or texts that are associated with a canvas.

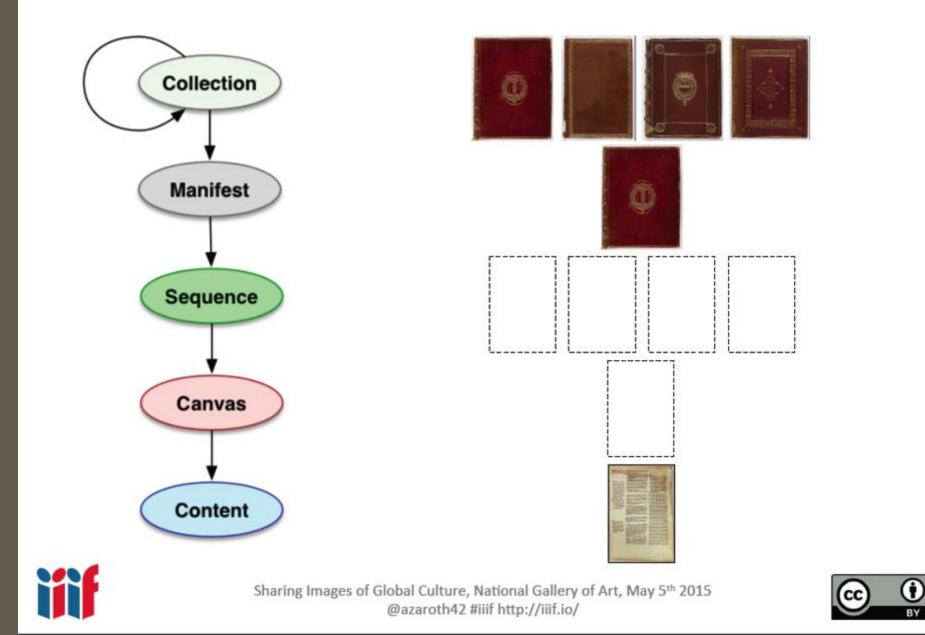




Just enough metadata to drive a remote viewing experience.

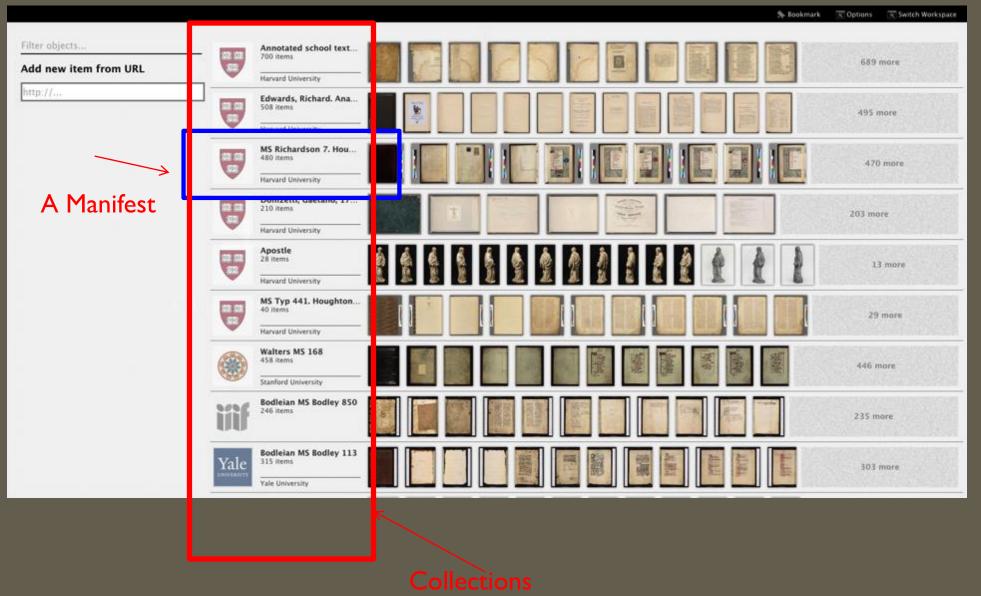
(e.g. sequence, labels, attribution, license)

Structure

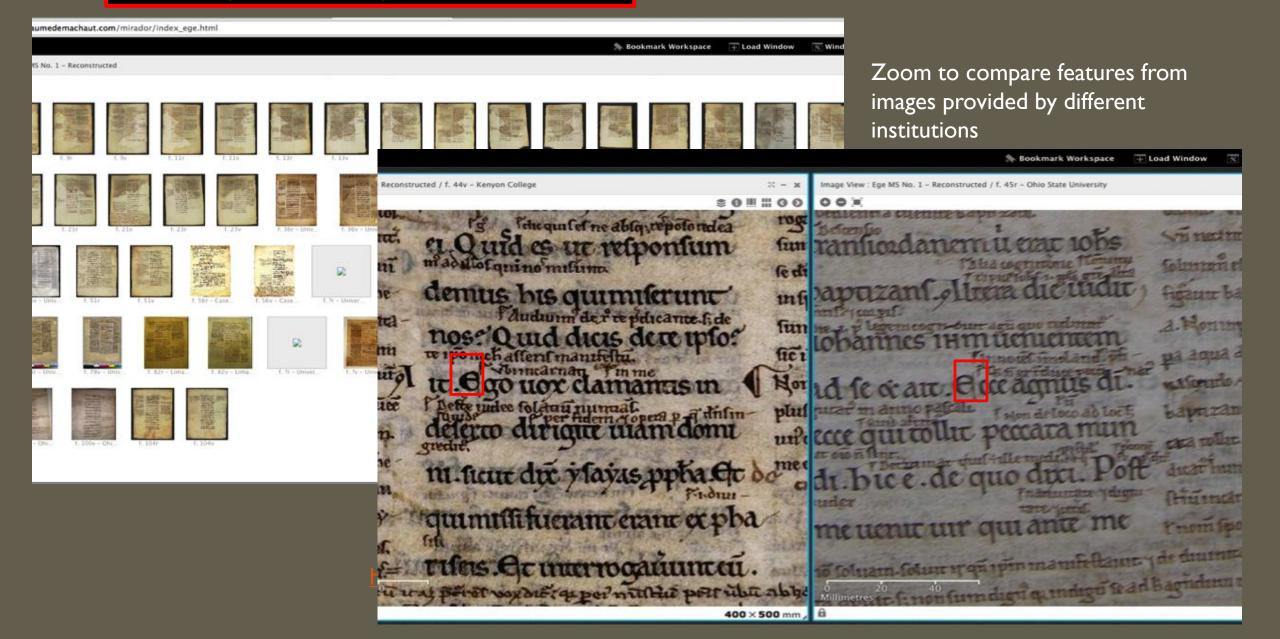


BY

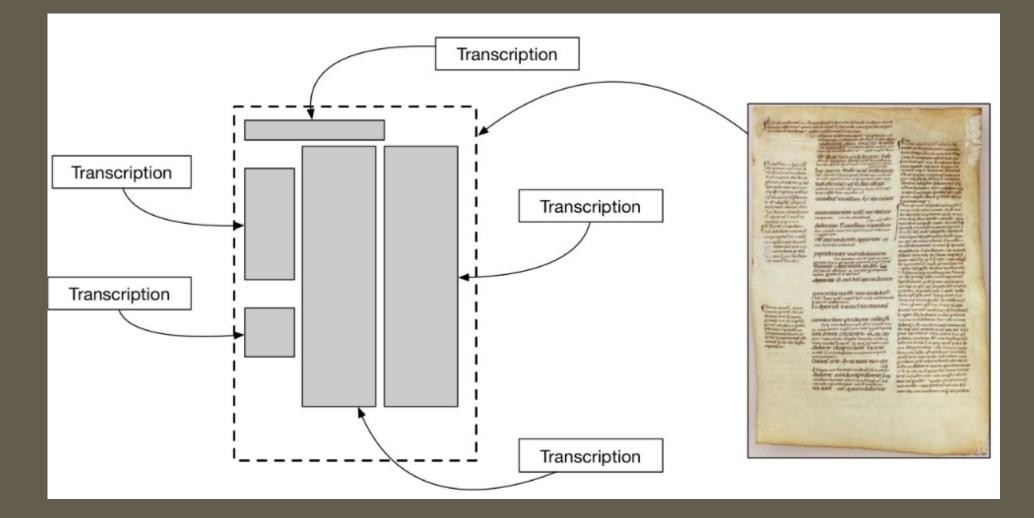
COLLECTIONS, MANIFESTS



Mirador viewer showing images from 16 institutions, each serving their own images

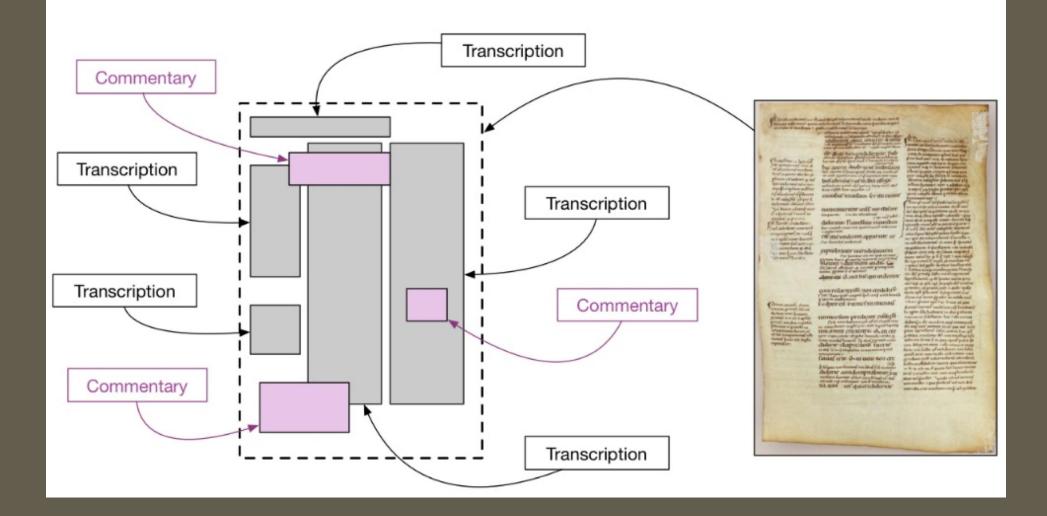


SHARED CANVAS



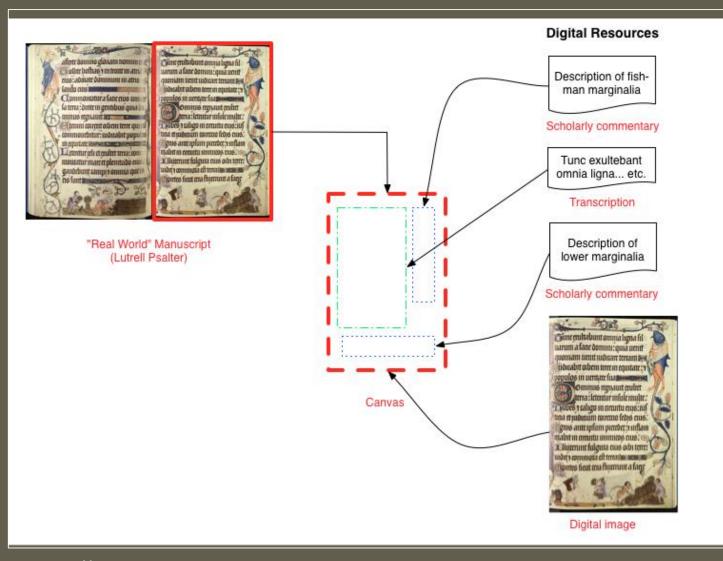
Each part is identifiable; transcription can be conducted for each part.

SHARED CANVAS



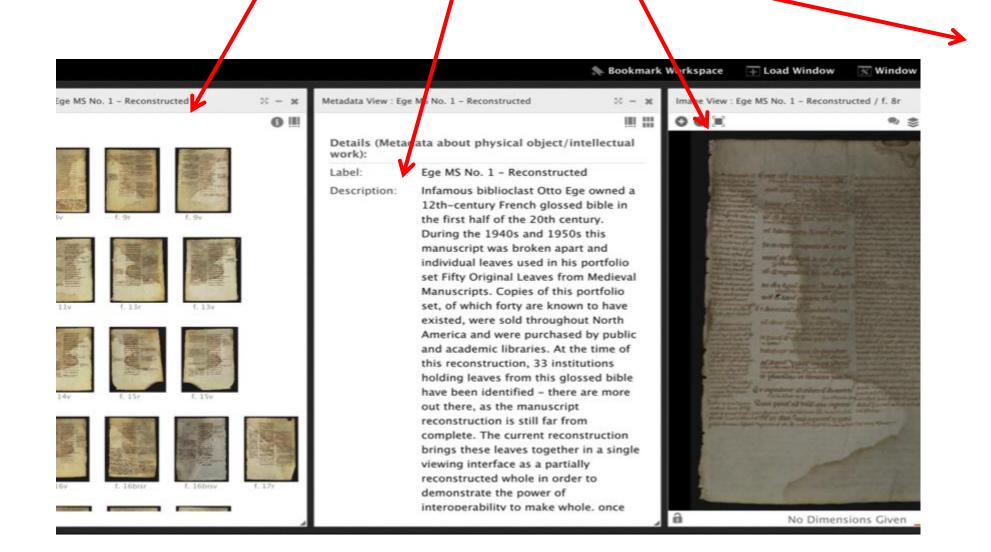
Each part is identifiable; transcription can be conducted for each part. Annotations by experts or other contributors can be added into the canvas.

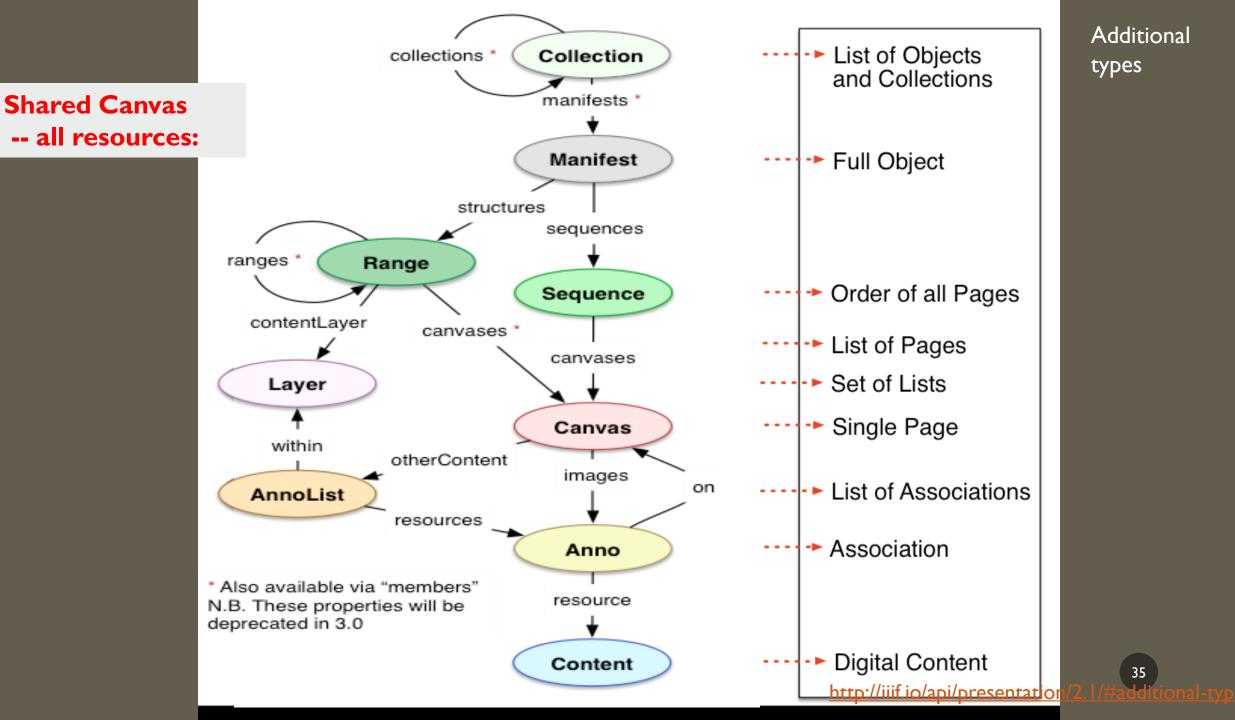
SHARED CANVAS



http://www.shared-canvas.org

mix <u>overview images</u>, <u>descriptions</u>, <u>page views</u>, <u>detail views</u> etc.





B. Summary of Metadata Requirements

http://iiif.io/api/image/2.1/

Field	Meaning
0	Required
	Recommended
0	Optional
\bigcirc	Not Allowed

Descriptive and Rights Properties

	label	metadata	description	thumbnail	a	Canva	IS
Collection	0	•	•			Annot	ation
Manifest	0		•		(Annot	ationLis
Sequence	0	0	0	0	(Range	•
Canvas	()	0	0	•	(Layer	
Annotation	0	0	0	0	(Image	Content
AnnotationList	0	0	0	0	(Other	Content
Range	()	0	0	0	C		0
Layer	()	0	0	0	0		0
Image Content	0	0	0	0	0		0
Other Content	0	0	0	0	0		0

Technical Properties

O

Ο

0

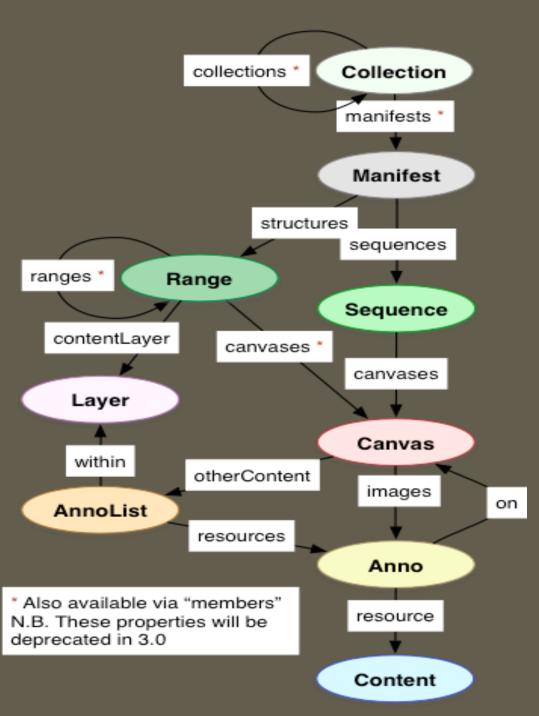
	@id	@type	format	height	width	viewingDirection	viewingHint	navDate
Collection	0	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0	0
Manifest	0	0	\bigcirc	\bigcirc	\bigcirc	0	0	0
Sequence	0	0	\bigcirc	\bigcirc	\bigcirc	0	0	\bigcirc
Canvas	()	0	\bigcirc	0	0	\bigcirc	0	\bigcirc
Annotation		0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc
AnnotationList	0	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc
Range	()	()	\bigcirc	\bigcirc	\bigcirc	0	0	\bigcirc
Layer	0	0	\bigcirc	\bigcirc	\bigcirc	0	0	\bigcirc
Image Content	0	0	0	0	0	\odot	0	\bigcirc
Other Content	()	0	0	0	0	\bigcirc	0	\bigcirc

See more properties for **linking, paging, structural, protocol behavior**, at the website

Recommended URI Patterns

Resource	URI Pattern
Collection	{scheme}://{host}/{prefix}/collection/{name}
Manifest	{scheme}://{host}/{prefix}/{identifier}/manifest
Sequence	{scheme}://{host}/{prefix}/{identifier}/sequence/{name}
Canvas	{scheme}://{host}/{prefix}/{identifier}/canvas/{name}
Annotation	{scheme}://{host}/{prefix}/{identifier}/annotation/{name}
AnnotationList	{scheme}://{host}/{prefix}/{identifier}/list/{name}
Range	{scheme}://{host}/{prefix}/{identifier}/range/{name}
Layer	{scheme}://{host}/{prefix}/{identifier}/layer/{name}
Content	{scheme}://{host}/{prefix}/{identifier}/res/{name}.{format}

http://iiif.io/api/image/2.1/



Format

The Shared Canvas data model and JSON-LD are leveraged to create an easy-to-implement, JSON-based format.

Example: **Sequence**

6.2. Sequence

Recommended URI pattern:

{scheme}://{host}/{prefix}/{identifier}
/sequence/{name}

The sequence conveys the ordering of the views of the object. The default sequence (and typically the only sequence) MUST be embedded within the manifest, and MAY also be available from its own URI. The default sequence MAY have a URI to identify it. Any additional sequences MUST be referred to from the manifest, not embedded within it, and thus these additional sequences MUST have an HTTP URI.

The new {name} parameter in the URI structure MUST distinguish it from any other sequences that may be available for the physical object. Typical default names for sequences are "normal" or "basic". Names SHOULD begin with an alphabetical character.

```
// Metadata about this sequence
"@context":"http://iiif.io/api/presentation/2/context.json",
"@id":"http://www.example.org/iiif/book1/sequence/normal",
"@type":"sc:Sequence",
"label":"Current Page Order",
```

```
"viewingDirection":"left-to-right",
"viewingHint":"paged",
"startCanvas": "http://www.example.org/iiif/book1/canvas/p2",
```

```
// The order of the canvases
"canvases": [
```

// ...

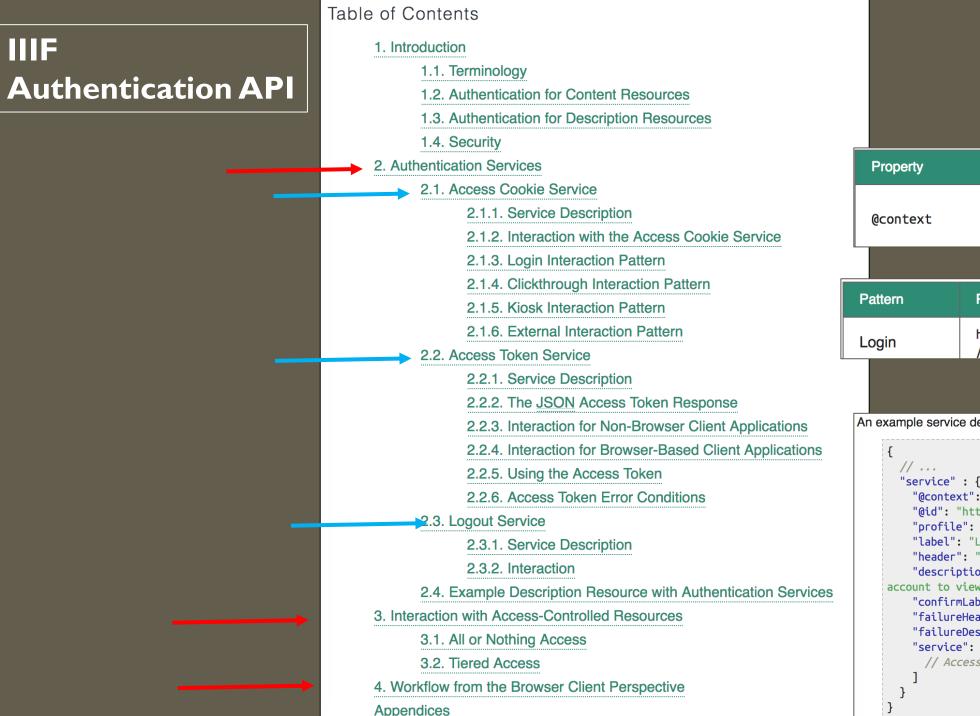
},

},

```
"@id":"http://www.example.org/iiif/book1/canvas/p1",
"@type":"sc:Canvas",
"label":"p. 1"
```

```
"@id":"http://www.example.org/iiif/book1/canvas/p2",
"@type":"sc:Canvas",
"label":"p. 2"
// ...
```

```
"@id":"http://www.example.org/iiif/book1/canvas/p3",
"@type":"sc:Canvas",
"label":"p. 3"
// ...
```





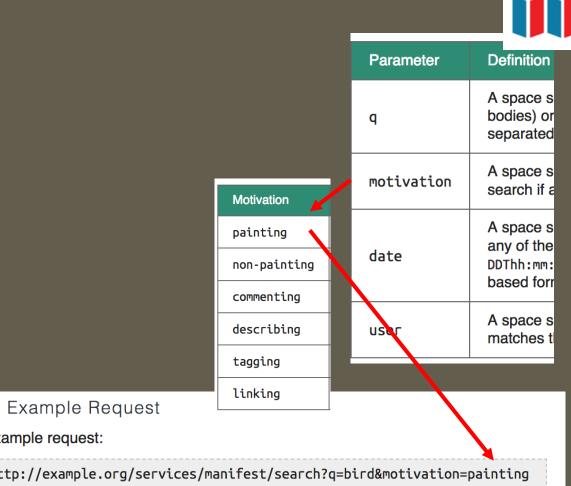
Description

The context REQUIRED API. The value /1/context. **Profile URI** Description http://iiif.io/api/auth The user will b with a UI provi /1/login An example service description for the Login interaction pattern: "@context": "http://iiif.io/api/auth/1/context.json", "@id": "https://authentication.example.org/login", "profile": "http://iiif.io/api/auth/1/login", "label": "Login to Example Institution", "header": "Please Log In", "description": "Example Institution requires that you account to view this content.", "confirmLabel": "Login", "failureHeader": "Authentication Failed", "failureDescription": "<a href=\"http://example.org/po "service": [// Access token and Logout services ...

Required?

IIIF Search API

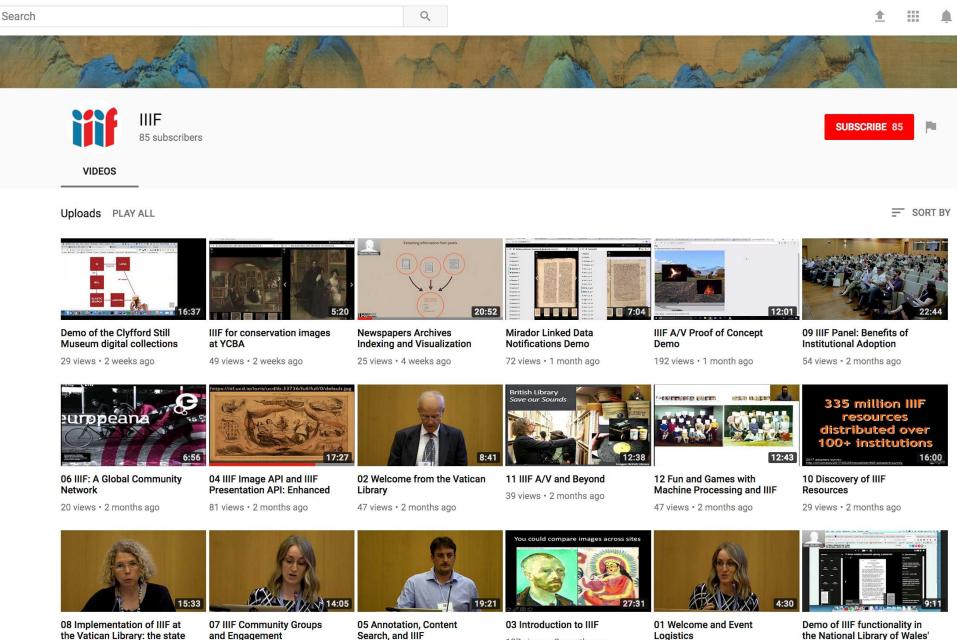
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Nould search for annotations with the word "bird" in their textual content, and have the motivation of painting. It would search annotations within the resource the service was associated with.

Related: Web Annotation Data Model W3C Recommendation 23 February 2017

Learn more: https://www.youtube.com/channel/UClcQlkLdYra7ZnOmMJnC5OA/videos



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mzeng@kent.edu

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