Introduction to the International Image Interoperability Framework

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National Library of Finland Kirjastoverkkopäivät (Library Network Days), Helsinki, Finland, 2017-10-26, 14:30-16:00

Credits – There are no original IIIF slide decks!

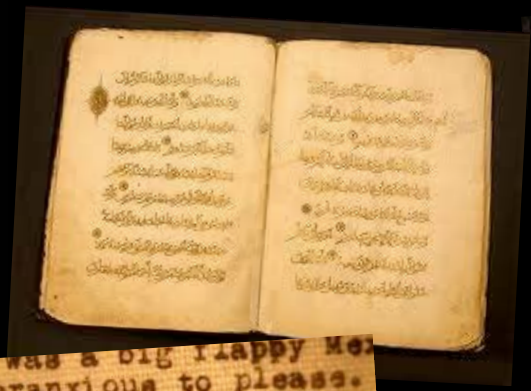
- These slides follow most closely the presentation of the IIIF Tutorial at Open Repositories 2017 (Brisbane, Australia) given in collaboration with Mike Appleby Jon Stroop, Sheila Rabun & Tom Cramer
- Introduction slides taken from a set last arranged by Tom Cramer
- They also include content from many others including Rob Sanderson, Tom Crane, ...

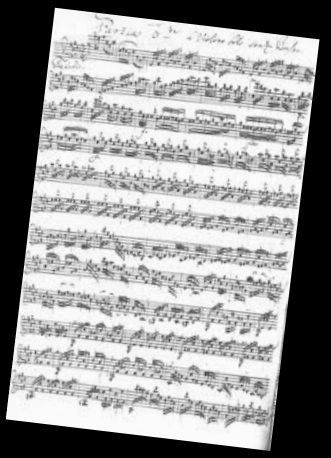
Agenda

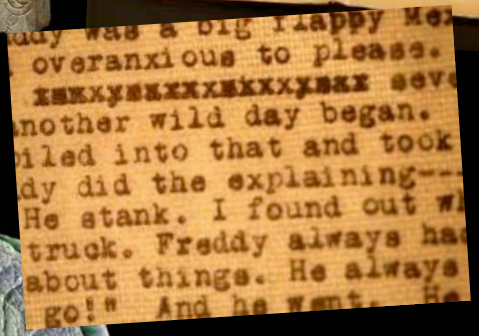
- Introduction to IIIF
- Overview of IIIF APIs
- API Specifications Roadmap
- Short break (I think I will need it even if you don’t)
- `IIIF Implementations & Demonstrations`
- IIIF Community
- Do try this at home
- Discussion

Introduction to IIIF

Images are fundamental information carriers for cultural heritage







But image delivery is…

…too hard

…too slow

…too idiosyncratic

…too disjointed

…too ugly

…and we all suffer because of it.

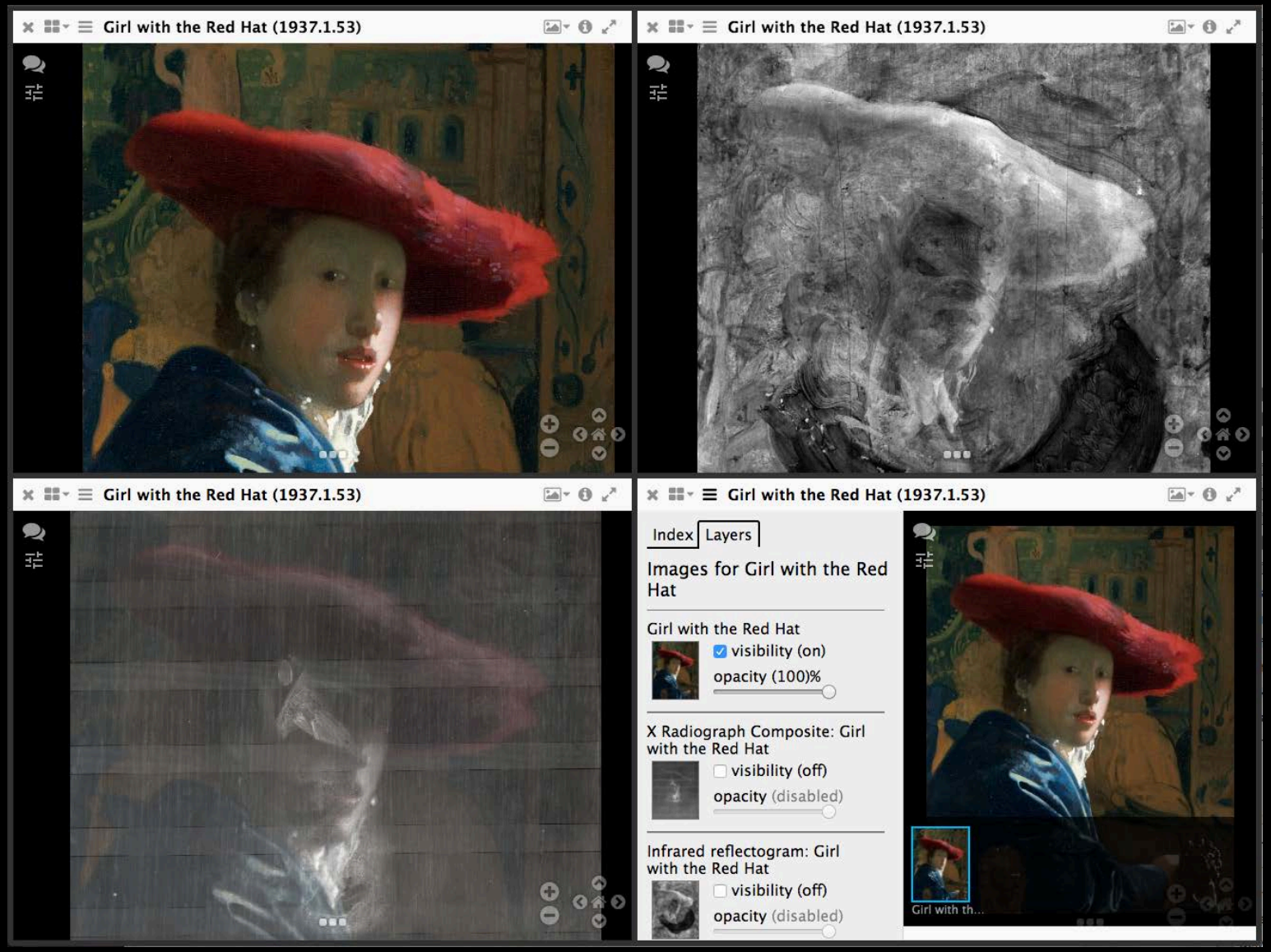
What if?

Deep zoom were standard (and fast)

With even the largest of images

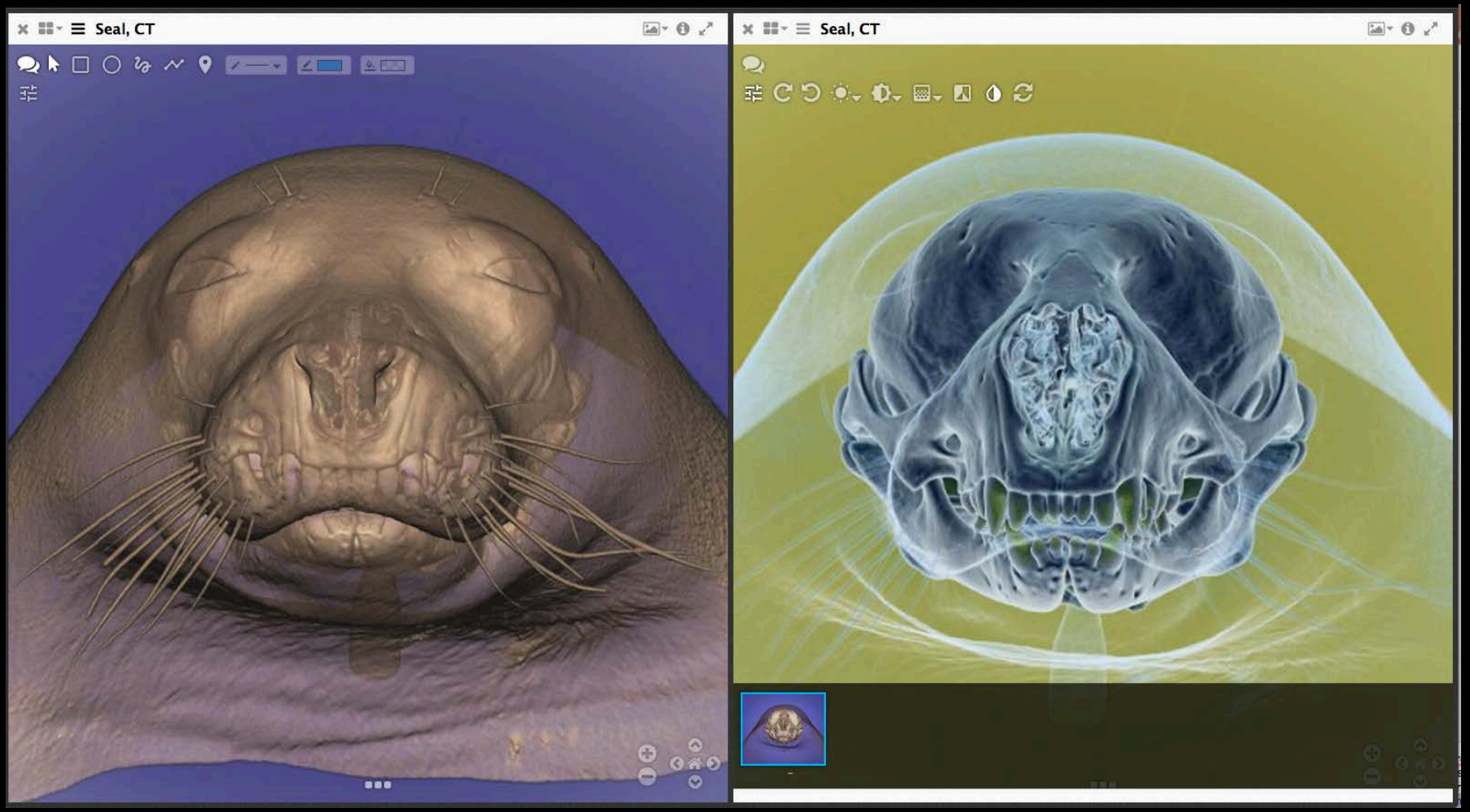
https://purl.stanford.edu/hs631zg4177

Analyze layers



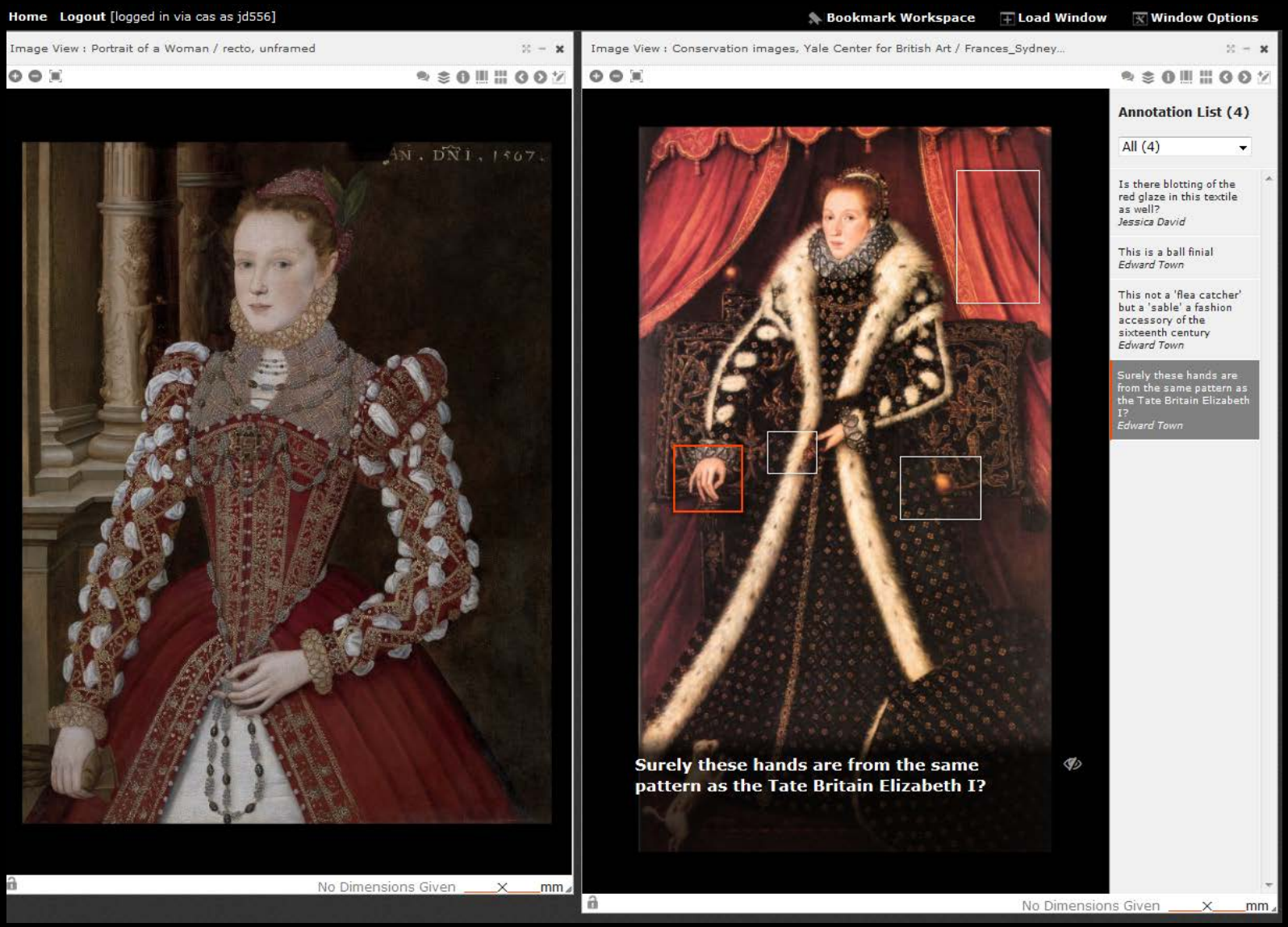
Vermeer's Girl with the Red Hat, from the National Gallery of Art (US)

You could compare images



Computed Tomography (CT) scans of the head of a seal from the Wellcome Library

…across different sites

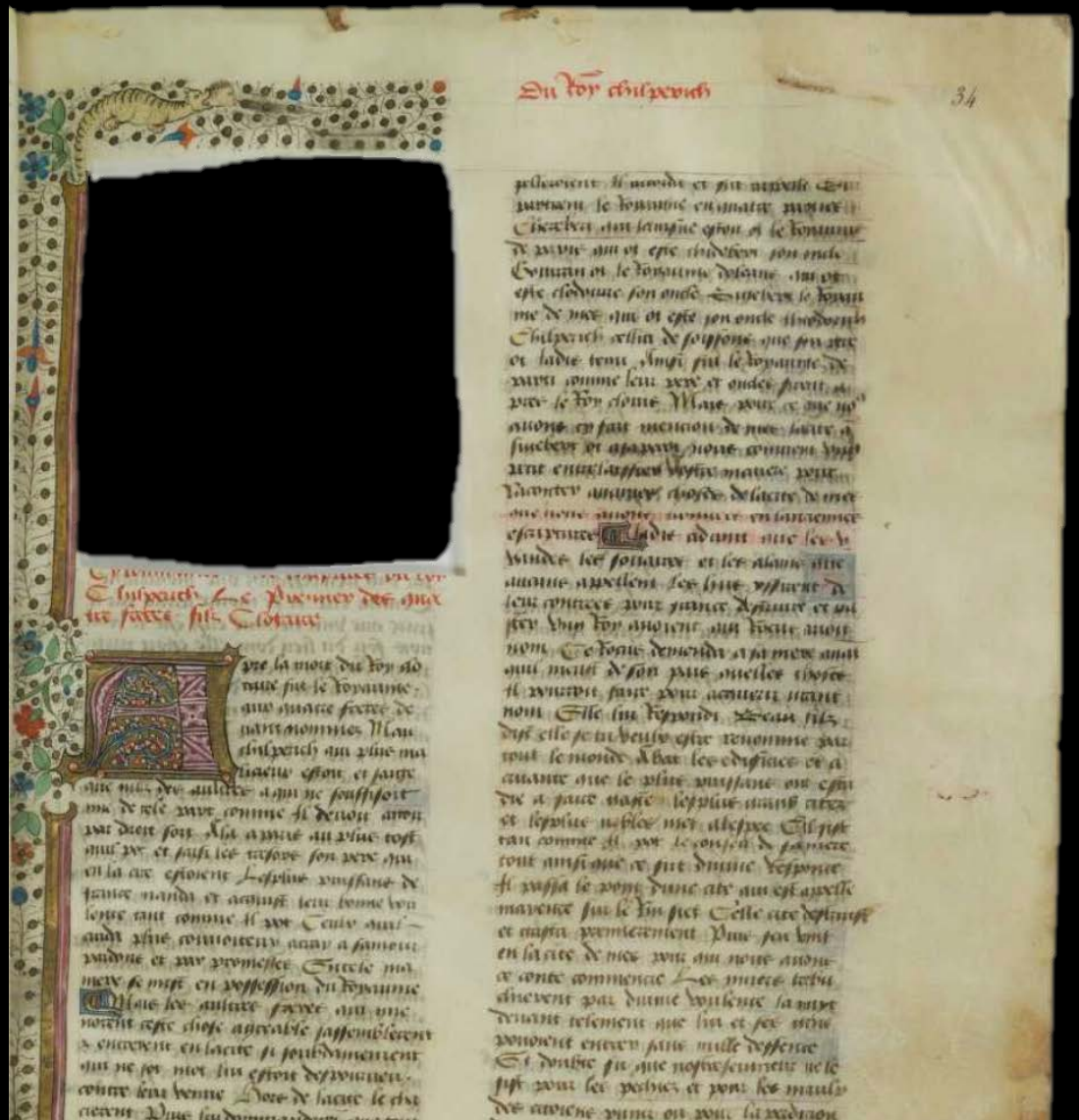


Yale Center for British Art: National Portrait Gallery (London) Tudor Project

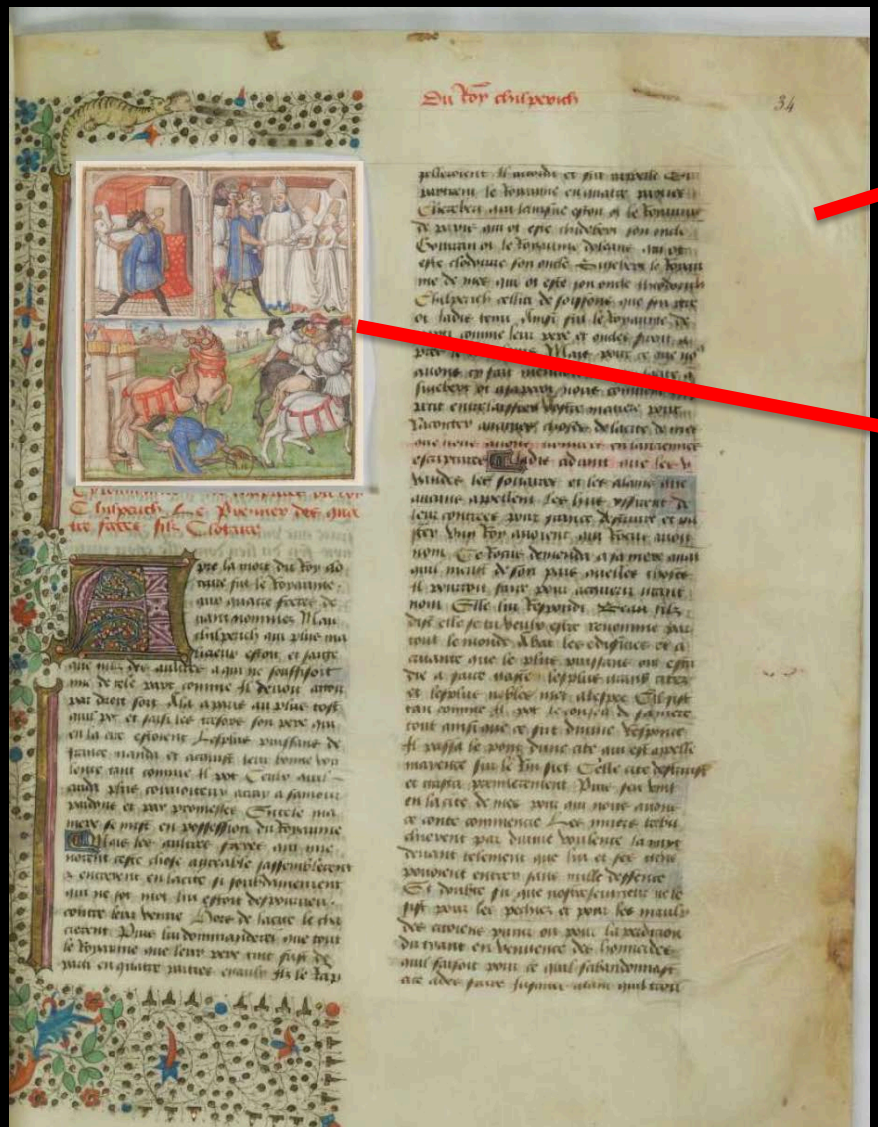
and collect items that belong together

Le manuscrit 5 de la Bibliothèque municipale de Châteauroux, c. 1460

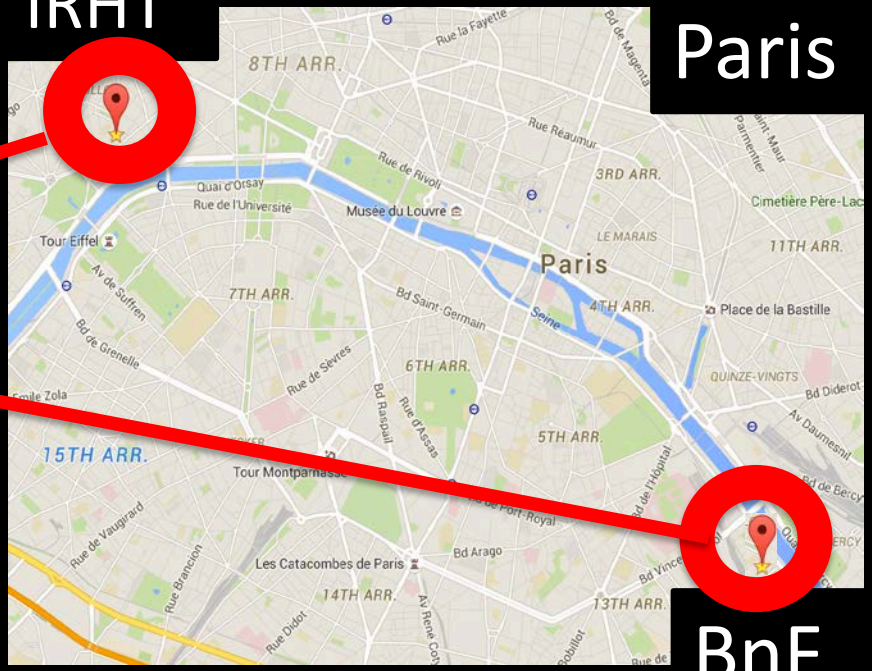
Folio in BVMM
Miniature in the BNF



despite differences in organization, geography or technology



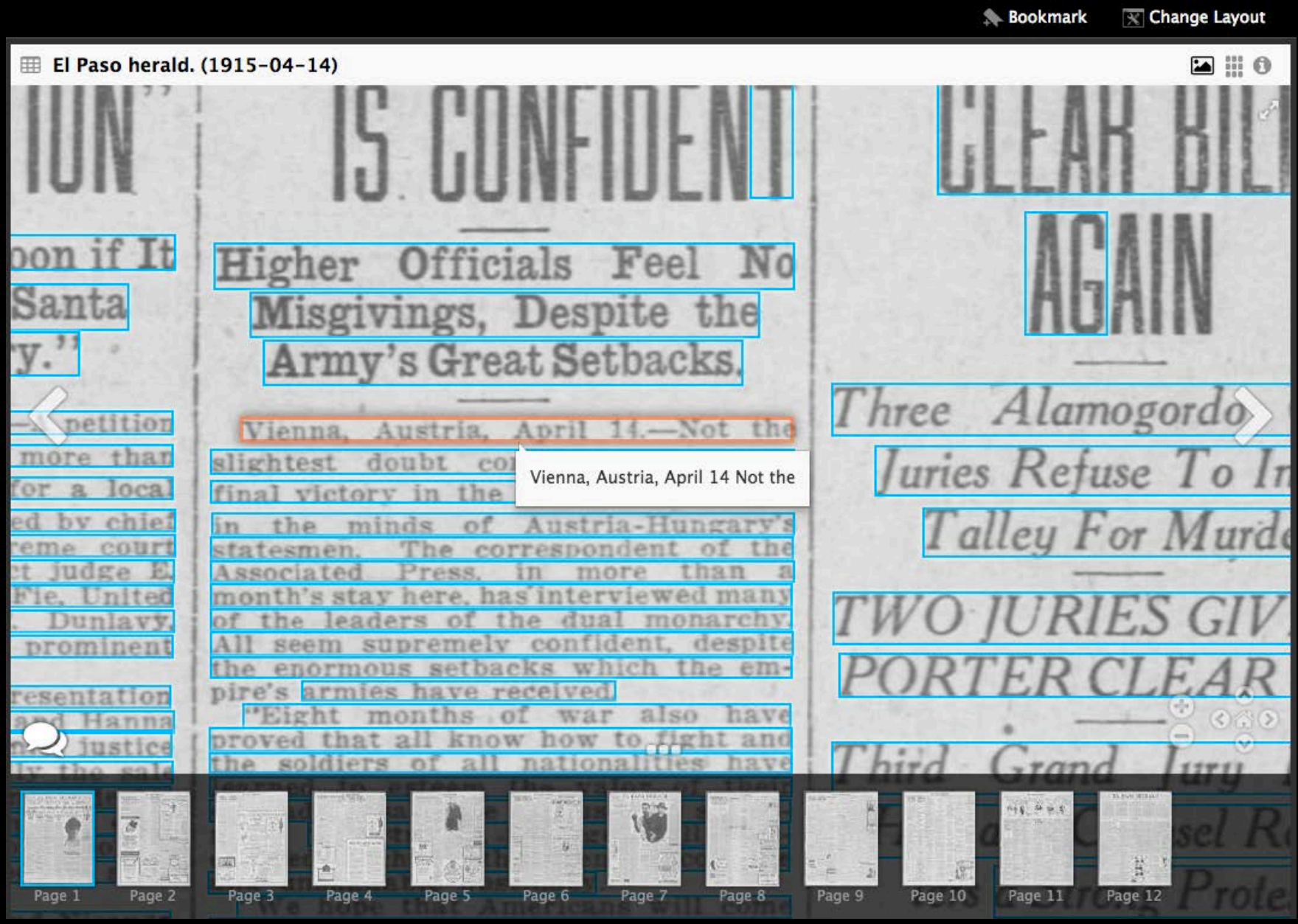
IRHT



Biblissima: MSS of France

http://demos.biblissima-condorcet.fr/chateauroux/

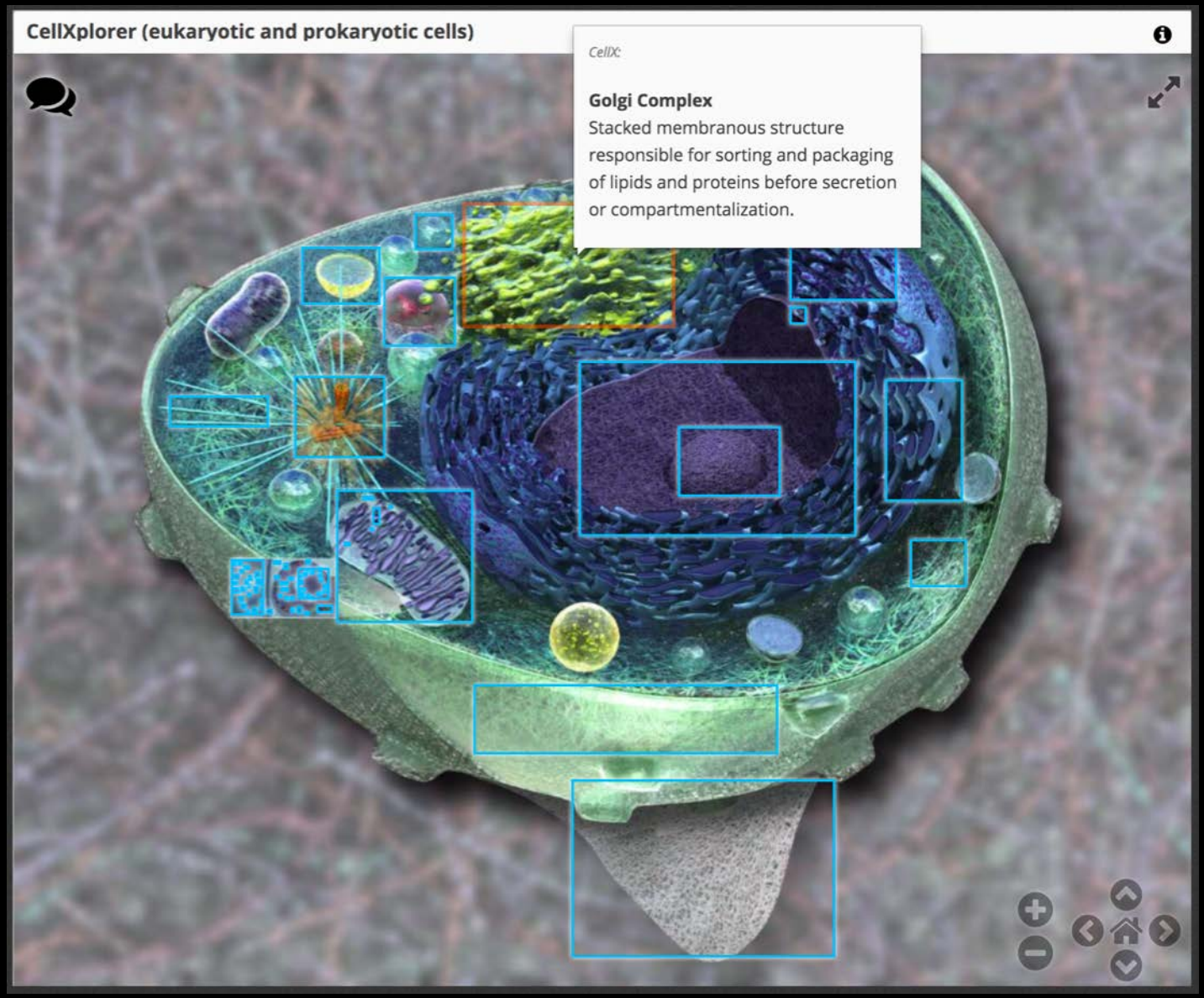
You could search within



Analyze

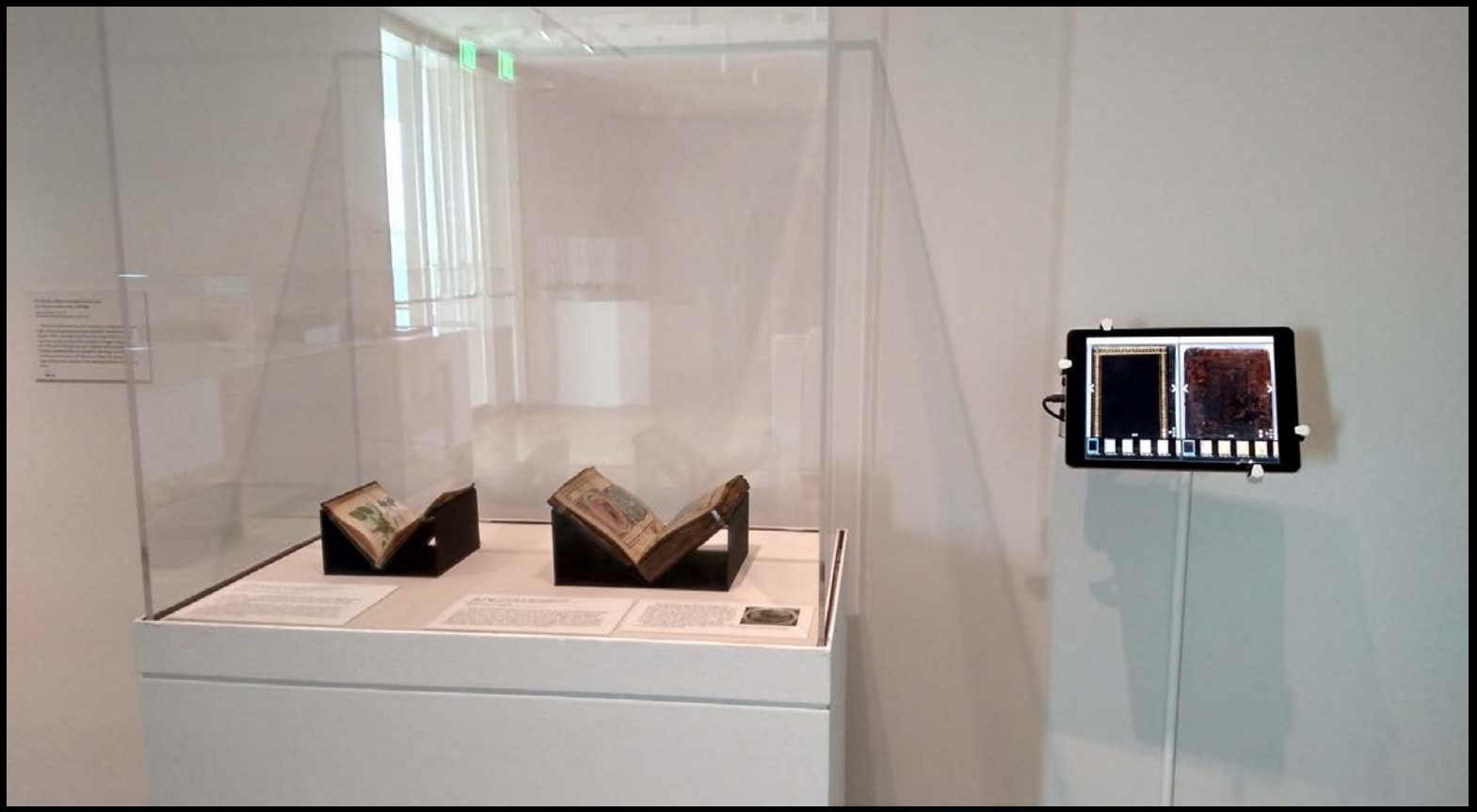
Klokan Technology’s Georeferencer

Annotate



https://courses.edx.org/courses/course-v1:HarvardX+MCB64.1x+2T2016/d16e07a5cec442eeb7cd9dfcb695dce0/

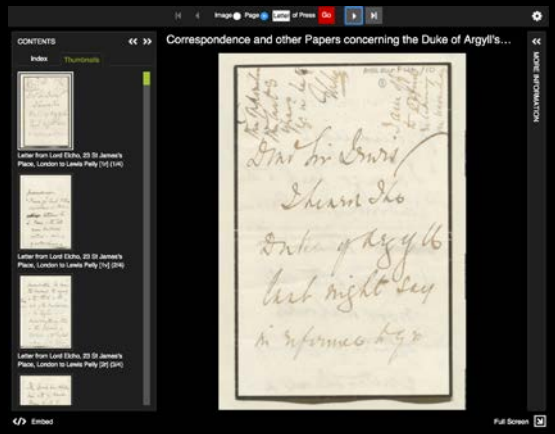
Enrich



Mirador instances on display at McMullen Museum, Boston College.

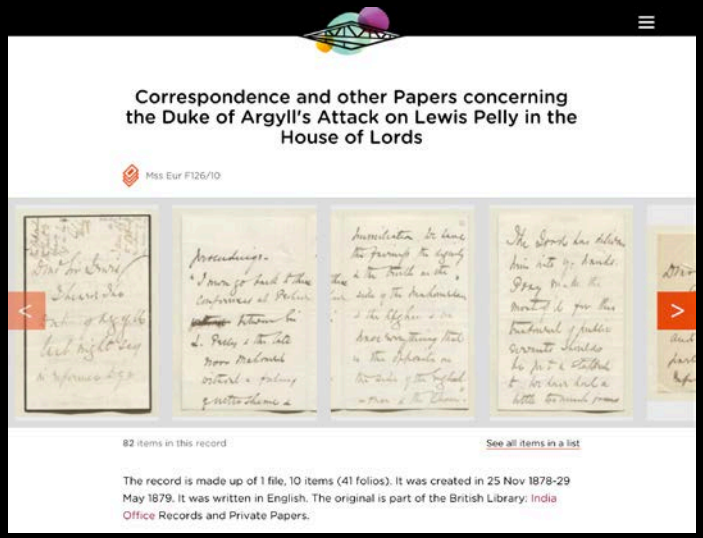
All with the application of your choice

Mirador



Universal Viewer

IA Book Reader



Qatar Digital Library
Archival papers shown in 4 different viewers.

http://labs.cogapp.com/iiif

And all of this were possible now.

What if?

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.

IIIF Vision, continued

- with **tens of millions** of image-based resources
- backed by a consortium of **world-leading cultural heritage and research institutions**
- supported by a rich and growing suite of **software tools**
- incorporating the **best of current image delivery technology**, and **leveraging Web standards**

So what is IIIF?

A **Community**

that develops **Shared APIs,**

implements them in **Software,**

and exposes interoperable **Content**

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Global Participation

International Leaders

Museums / Galleries

British Museum
National Gallery of Art
The J. Paul Getty Trust
The Walters Art Museum
Yale Center for British Art
Et al.

Aggregators

ARTstor
CONTENTdm
DPLA
Europeana
Internet Archive
Wikimedia Foundation

State / National Libraries

Austria
Bavarian State
British Library
Denmark
Egypt
France
Israel
Moravian Library
New Zealand
Norway
Poland
Scotland
Serbia
Wales
Qatar
United States (LoC)
Vatican

Universities and Research Institutions

Cambridge
Cornell
Ghent
Gottingen
Harvard
Oxford
Princeton
Stanford
Edinburgh
Toronto
Wellcome Trust
Yale

And many more!

Institutions AND Individuals

IIIF Working Group Meeting, New York, May 2016

Community

30+

participants on open community calls every 2 weeks

6

Community Groups

- A/V Technical Specification Group
- Discovery Technical Specification Group
- Manuscripts Community Group
- Museums Community Group
- Newspapers Community Group
- Software Developers Community Group

12

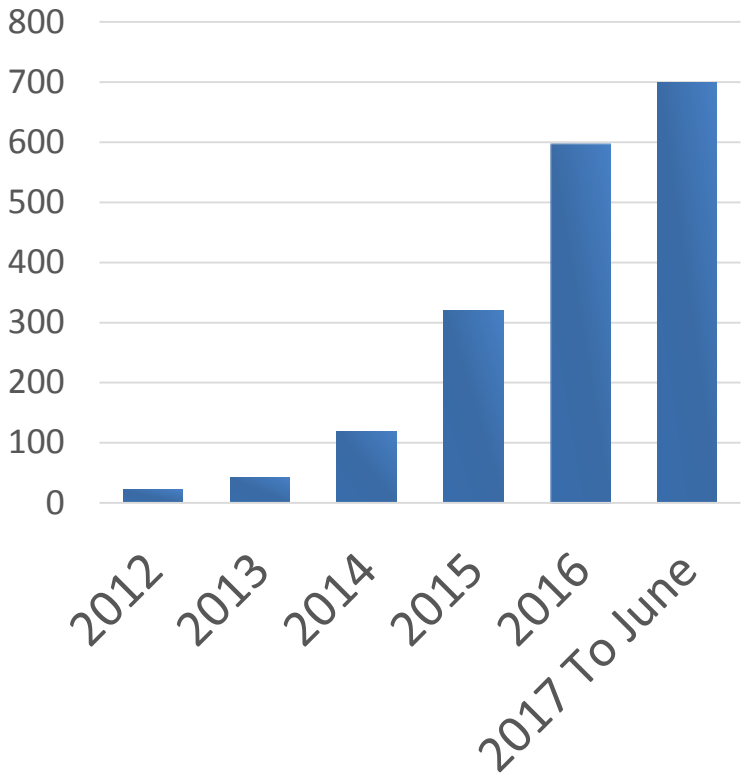
Working Group Meetings

since 2011

1. Cambridge, Sept 2011
2. The Hague, April 2012
3. Edinburgh, July 2012
4. Paris, May 2013
5. Copenhagen, February 2014
6. London, October 2014
7. Washington DC, May 2015
8. Ghent, November 2015
9. New York City, May 2016
10. The Hague, October 2016
11. The Vatican, June 2017
12. Toronto, September 2018

Communication

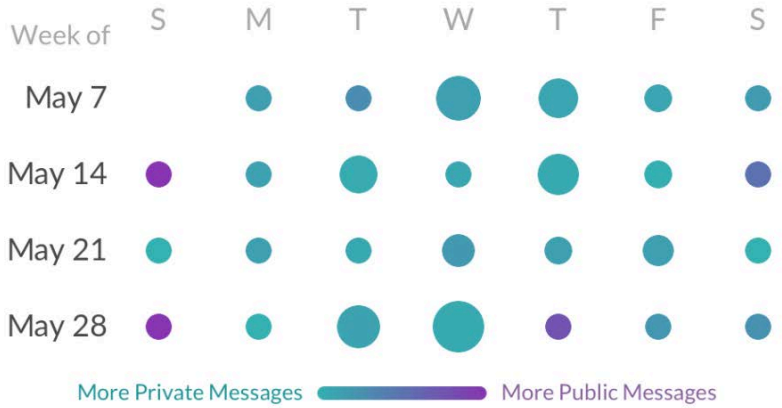
IIIF-Discuss Google Group



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

IIIF Slack

Total Messages



http://bit.ly/iiif-slack

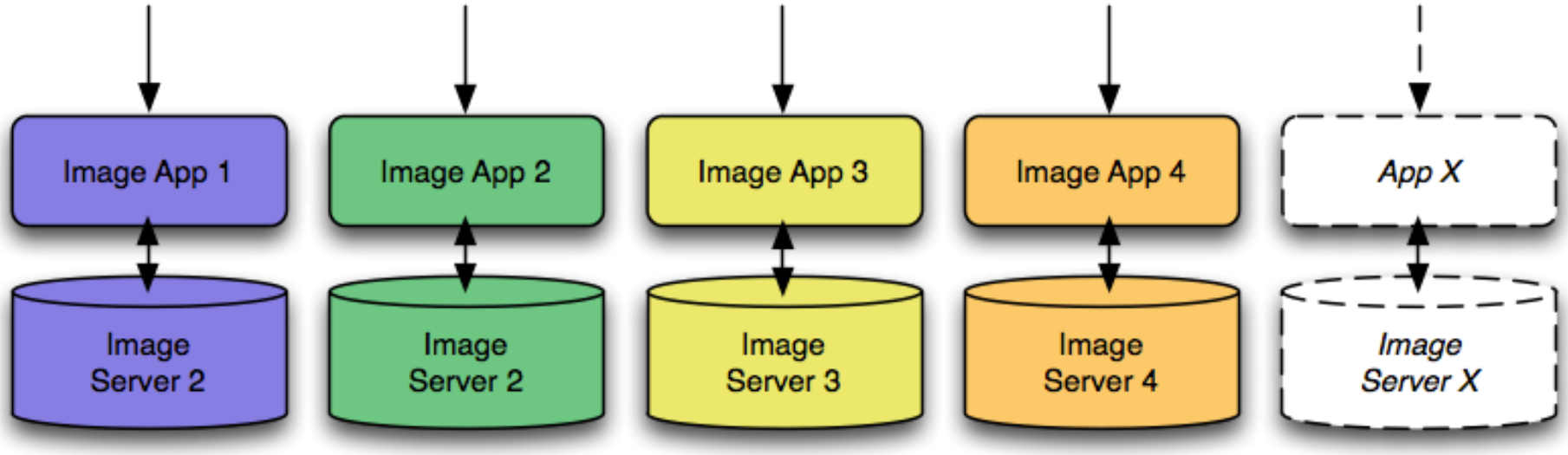
A **Community**

that develops **Shared APIs,**

implements them in **Software,**

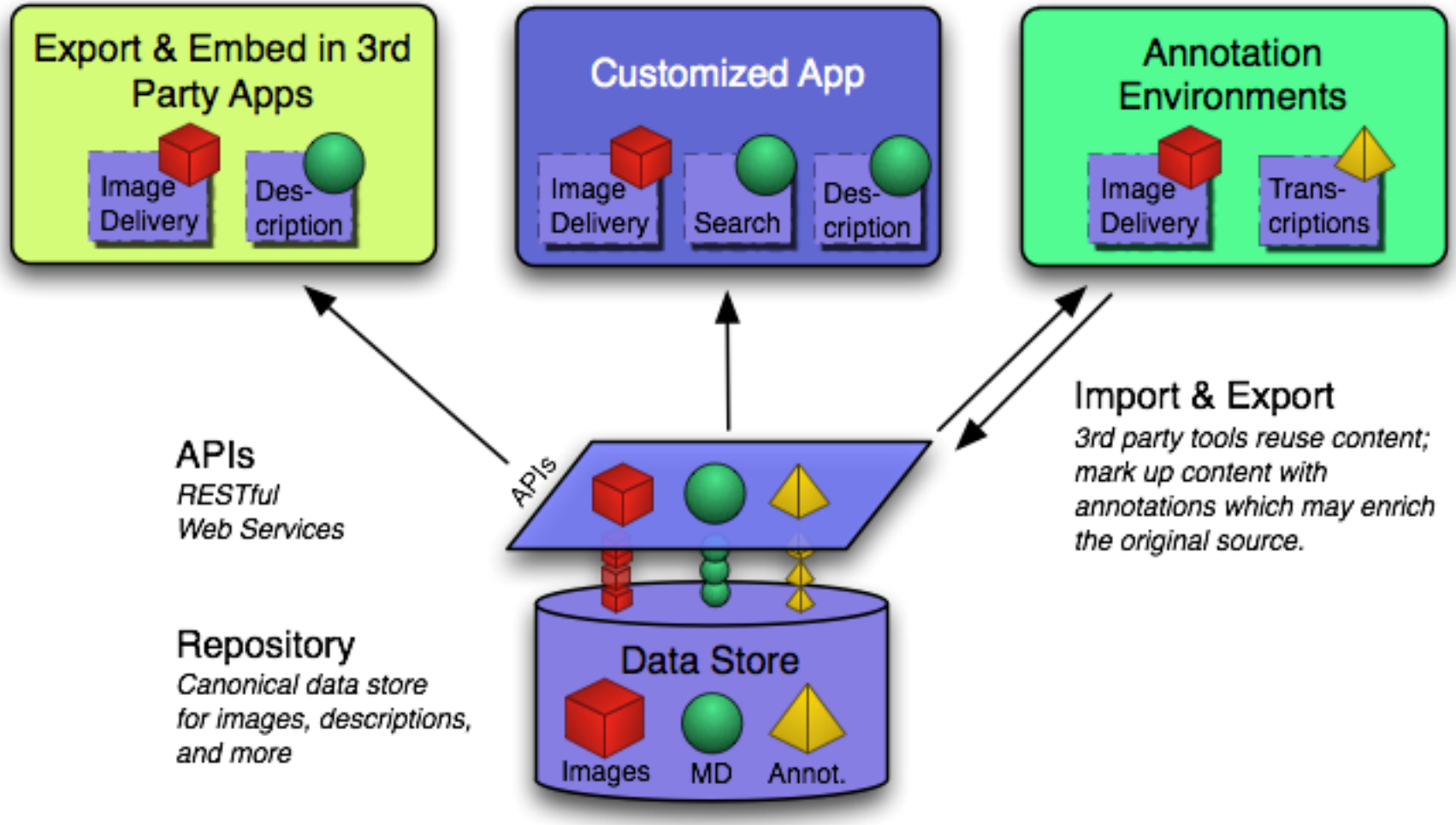
and exposes interoperable **Content**

A world of silos & duplication

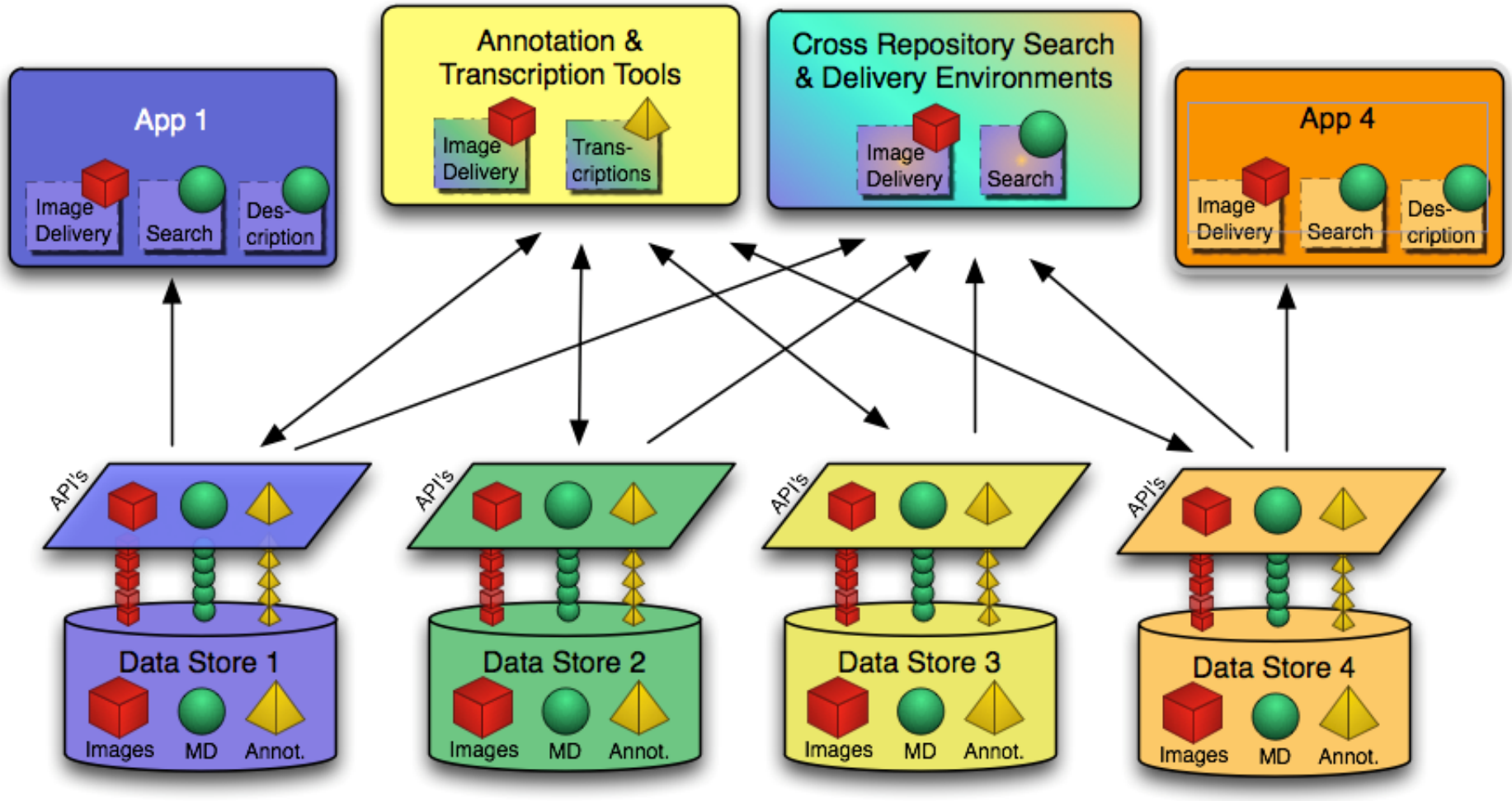


- Every site a silo (→ no interoperability)
- Every app a one-off (→overhead to code and keep)
- Every user forced to cope (→ many UIs, little integration)

APIs enable reuse



APIs -> Framework -> Ecosystem



IIIF Application Programming Interfaces (APIs)

Use Case Driven Process

IIIF APIs

Core:

- Image API – access to bits of images and enough technical metadata to use them
- Presentation API – information about how sets images should be displayed and related, contains display metadata and *may contain* links to semantic metadata

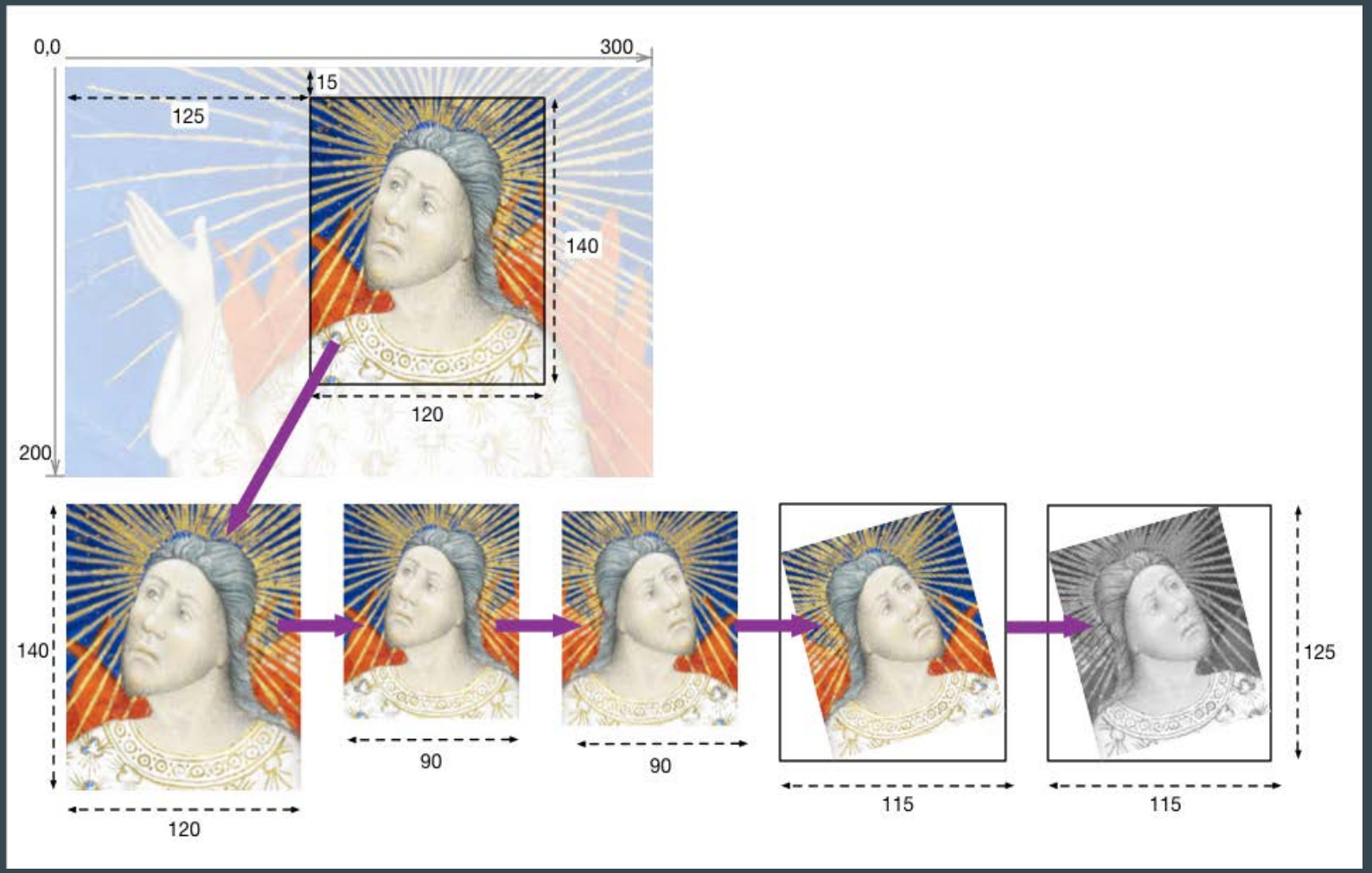
Also:

- Search API – Search *within* an object
- Authentication API – Tie with authentication system

IIIF Image API

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

IIIF Image API



Play Along!

https://goo.gl/PrFrwj

(bandwidth permitting)

Syntax

https://example.edu/{id}/{region}/{size}/{rotation}/{quality}.{fmt}

https://example.edu/{id}/info.json

https://example.edu/{id}/full/full/0/default.jpg

https://example.edu/{id}/3930,550,980,2630/full/0/default.jpg

https://example.edu/{id}/3930,550,980,2630/full/0/default.jpg

https://example.edu/{id}/3930,550,980,2630/full/0/default.jpg

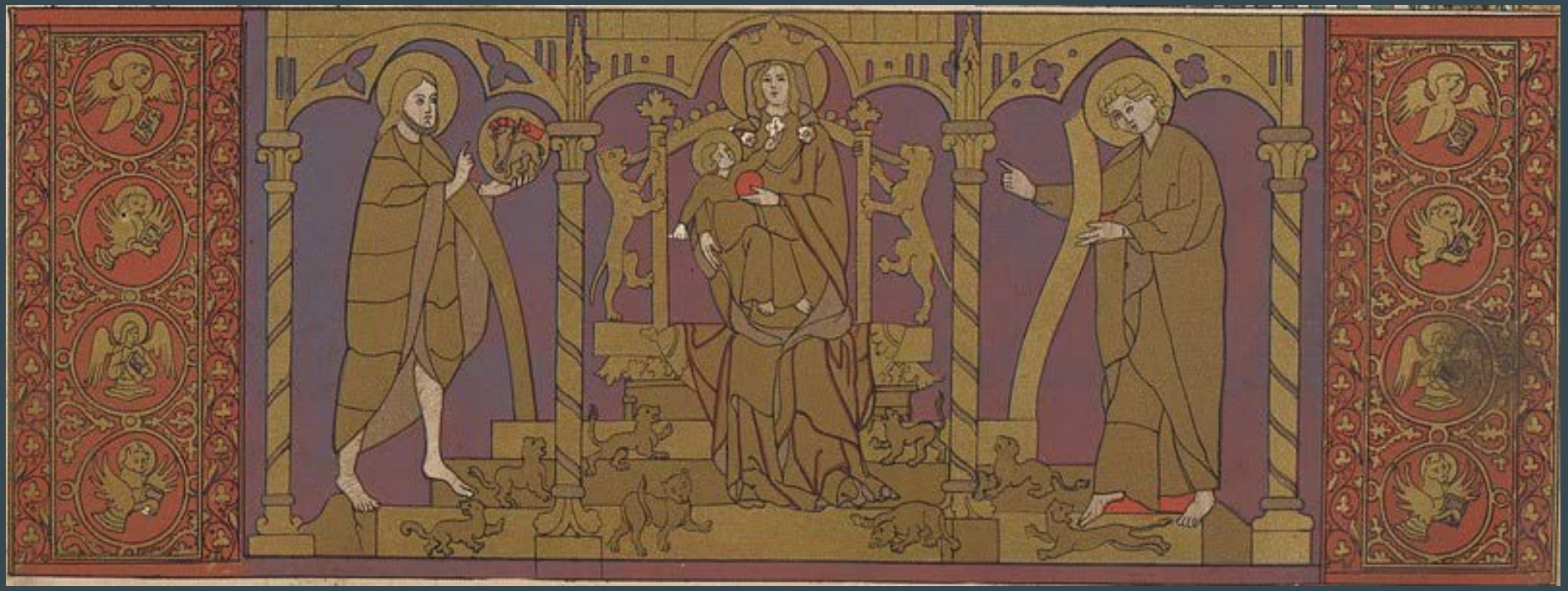
https://example.edu/{id}/3930,550,980,2630/full/0/default.jpg

https://example.edu/{id}/3930,550,980,2630/250,/0/default.jpg

Many Size Options:

- w,
- ,h
- !w,h
- w,h
- pct:n

https://example.edu/{id}/3930,550,980,2630/,670/0/default.jpg



https://example.edu/{id}/3930,550,980,2630/250,/90/default.jpg

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https://example.edu/{id}/3930,550,980,2630/250,/90/default.jpg

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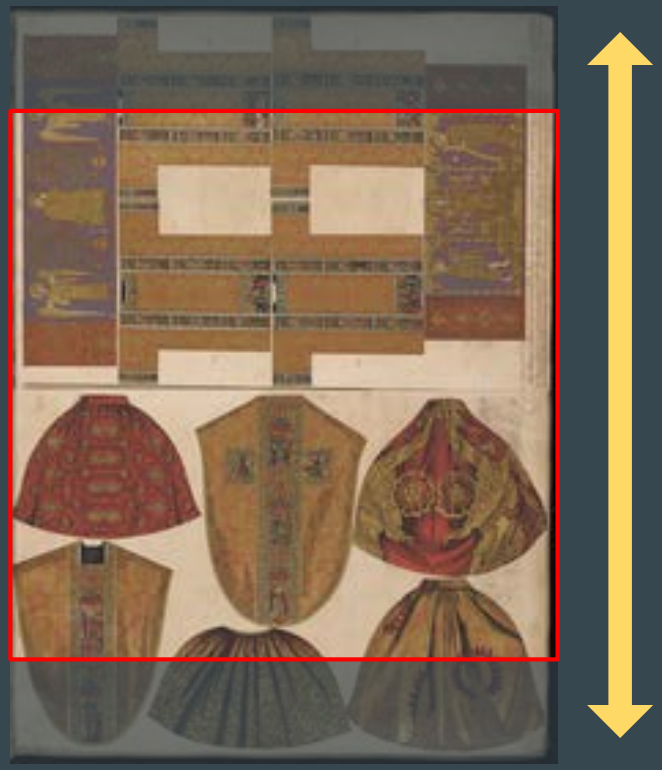
https://example.edu/{id}/full/200,/0/default.png

https://example.edu/{id}/square/200,/0/default.png

==

https://example.edu/{id}/0,998,5204,5204/200,/0/default.png



https://example.edu/{id}/square/200,/0/default.png

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https://example.edu/{id}/0,998,5204,5204/200,/0/default.png

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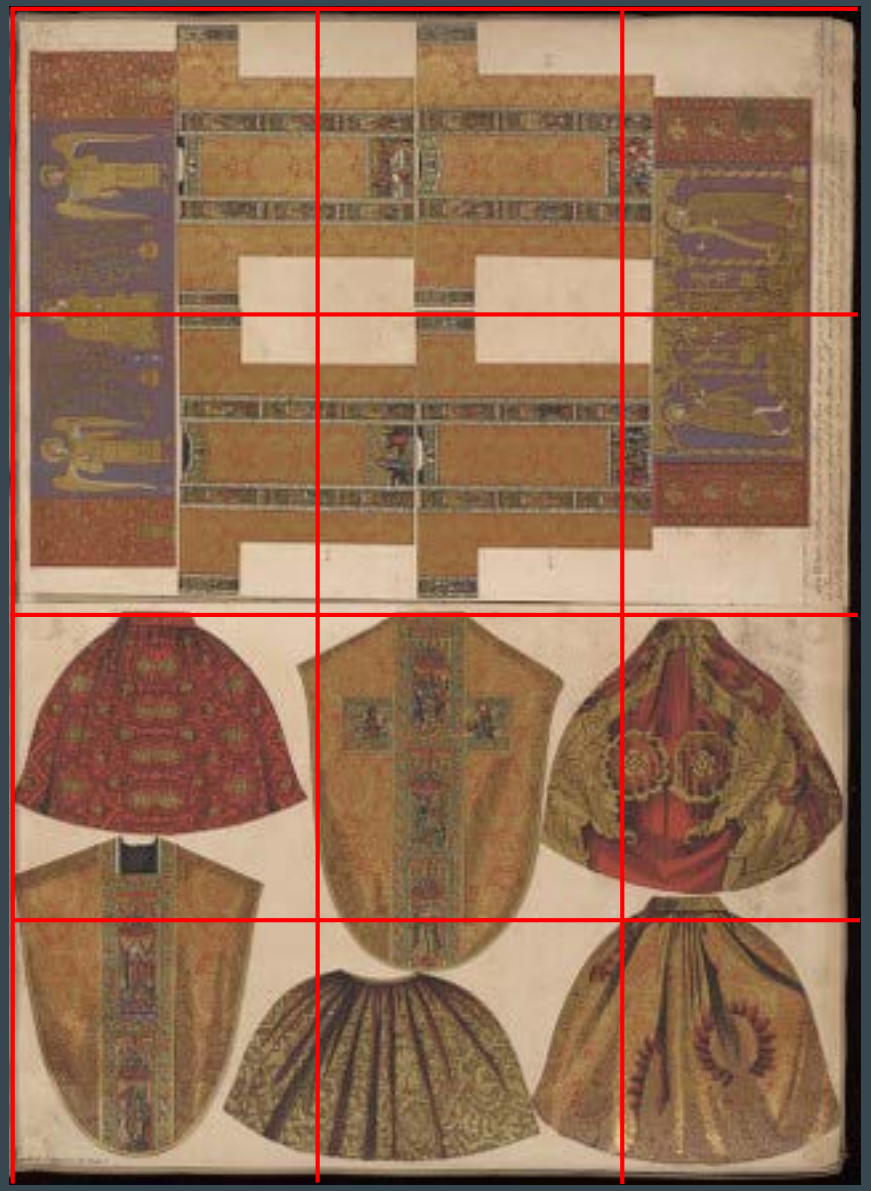
}
```


https://example.edu/{id}/info.json

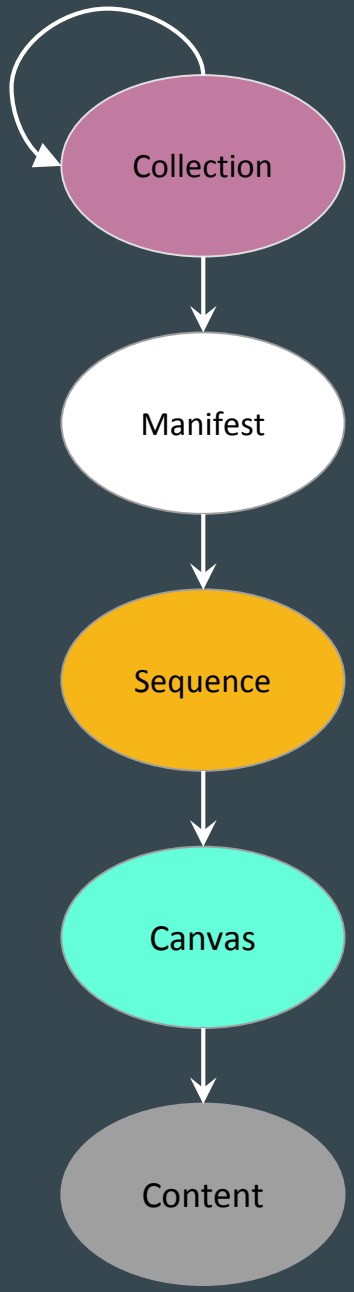


https://example.edu/{id}/0,1024,1024,1024/1024,/0/default.jpg

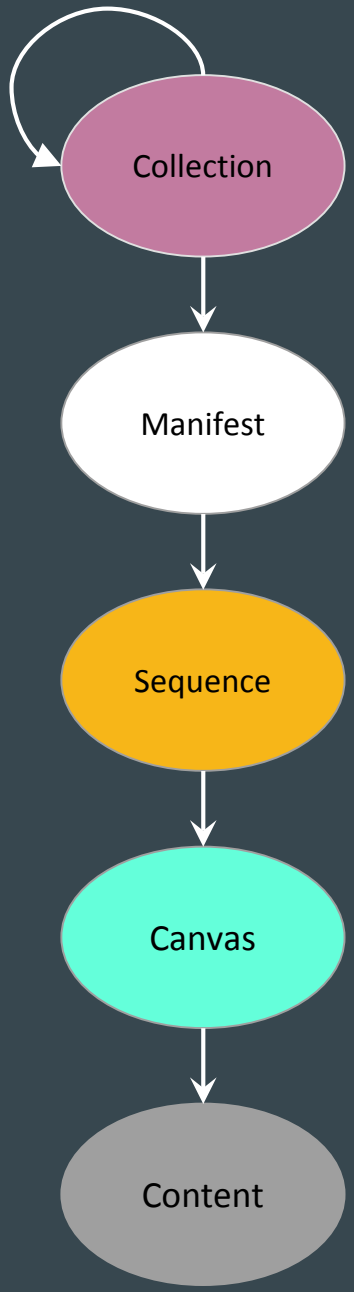
https://libimages1.princeton.edu/osd-demo/?feedme=pudl0123%2F8172070%2F01%2F00000001.jp2

IIIF Presentation API

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



IIIF Presentation API



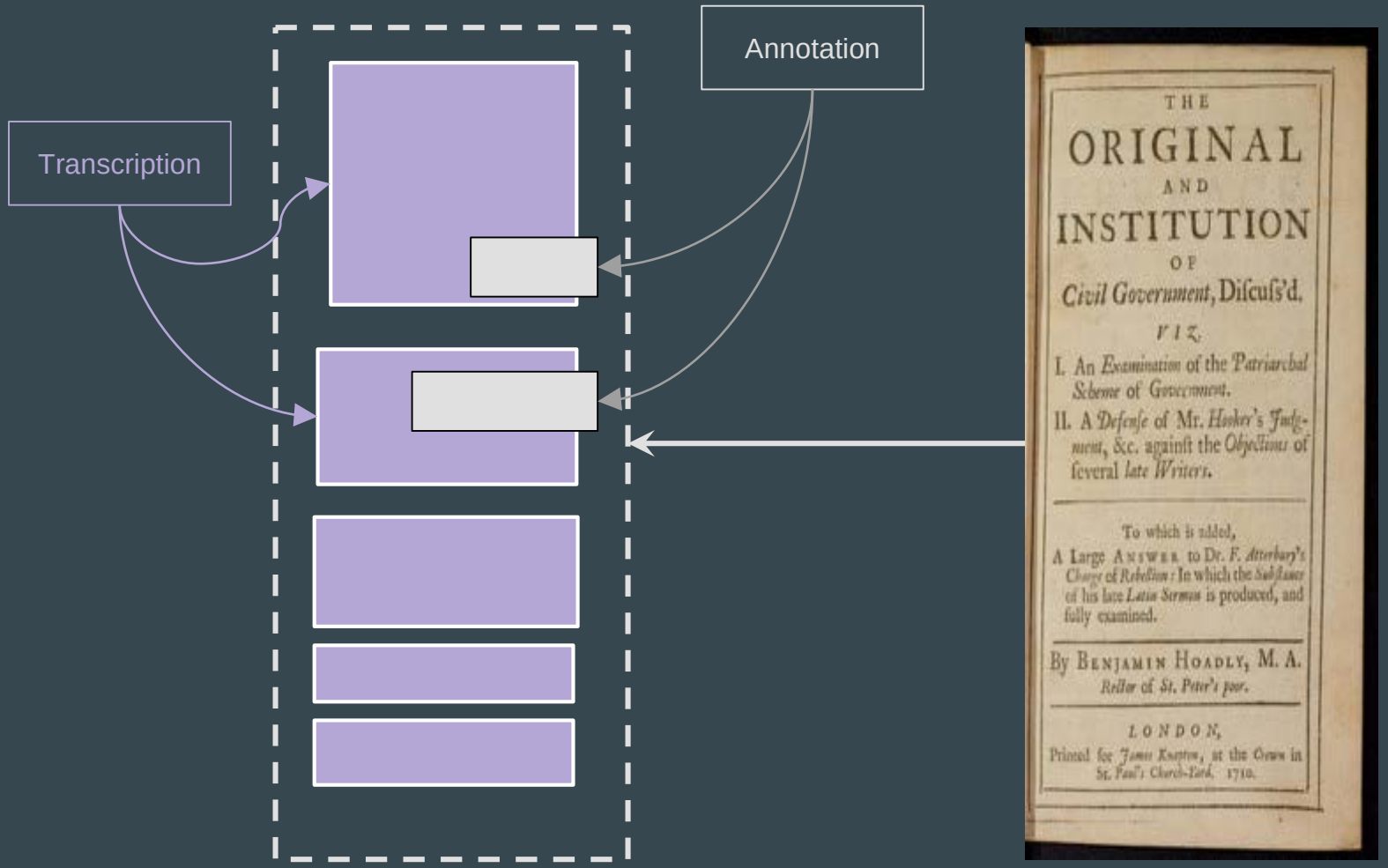
IIIF Presentation API

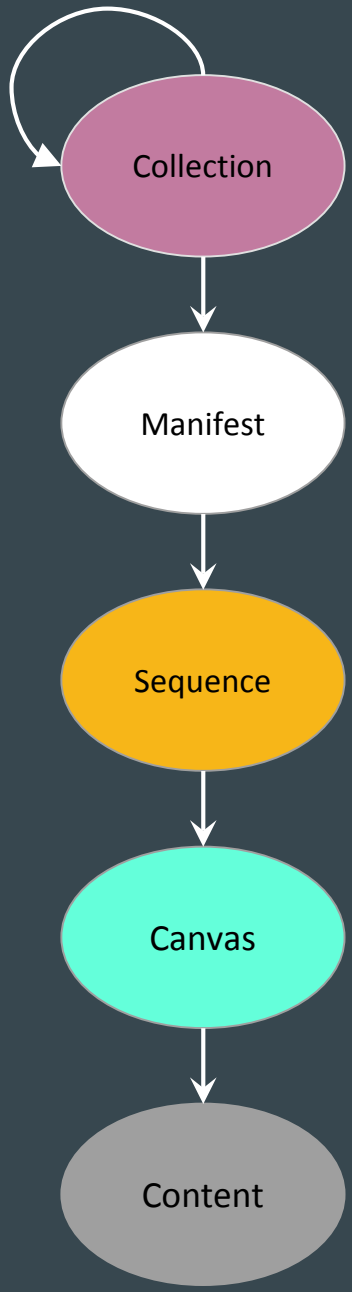
“The objective of the IIIF Presentation API is to provide the information necessary to allow a rich, online viewing environment for primarily image-based objects to be presented to a human user [...]. This is the sole purpose of the API and therefore the descriptive information is given in a way that is intended for humans to read, but not semantically available to machines. [... It] explicitly does not aim to provide metadata that would drive discovery of the digitized objects.”

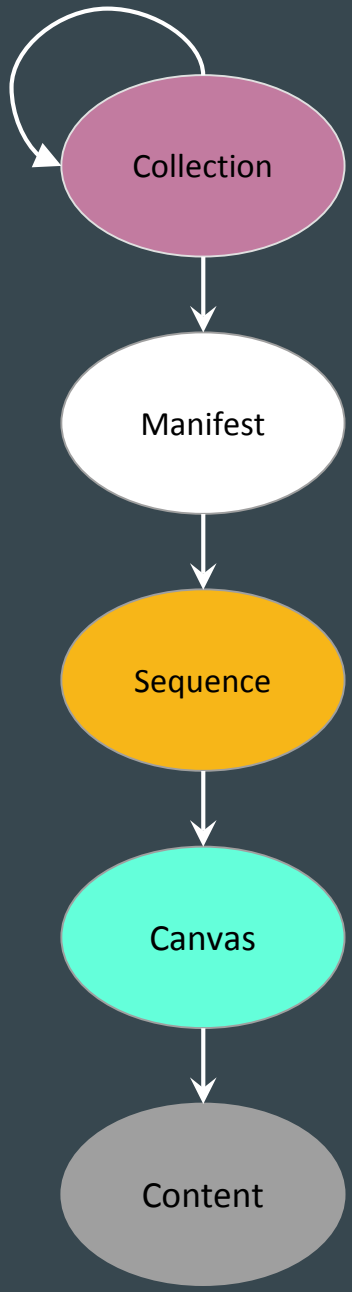
— http://iiif.io/api/presentation/2.1/#objectives-and-scope

Shared Canvas Data Model / Web Annotation Data Model

Shared Canvas Data Model / Web Annotation Data Model




Collection
Manifest
Sequence
Canvas
Content


Collection
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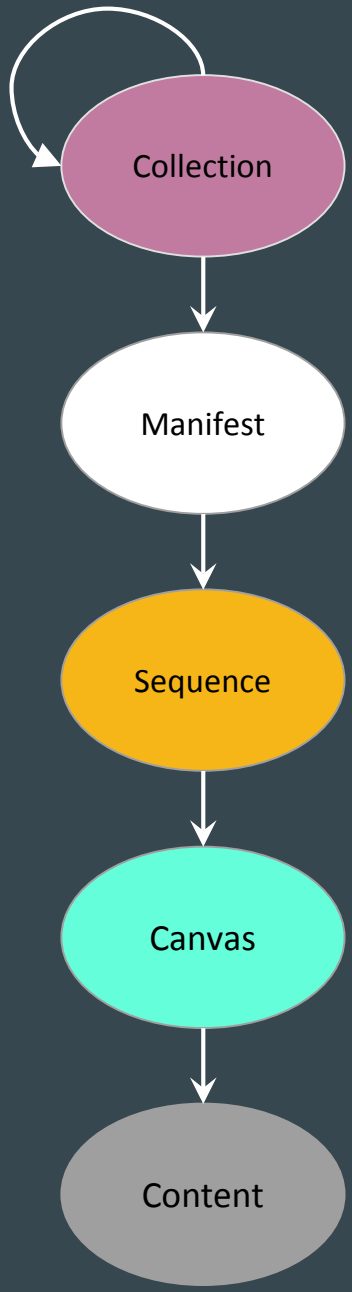
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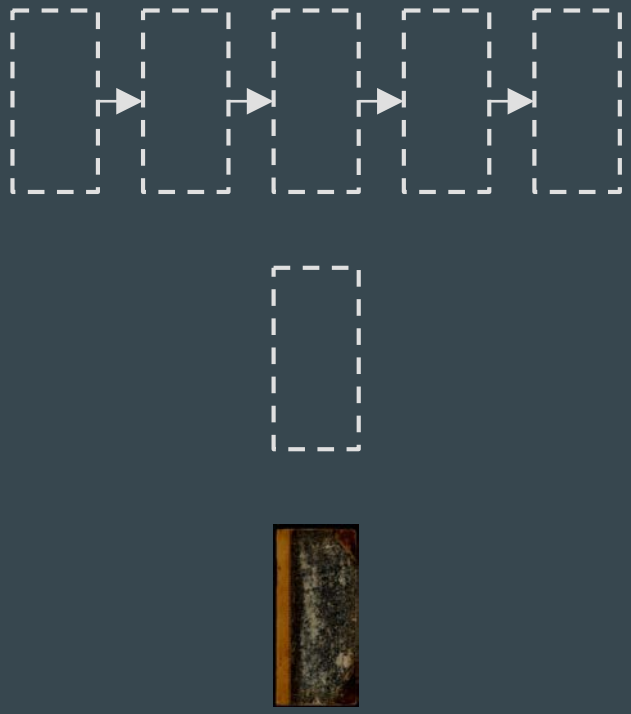

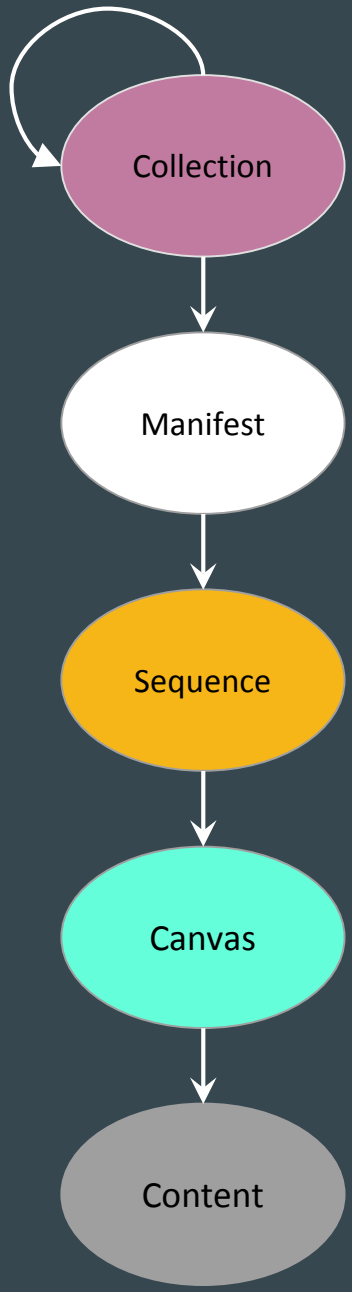

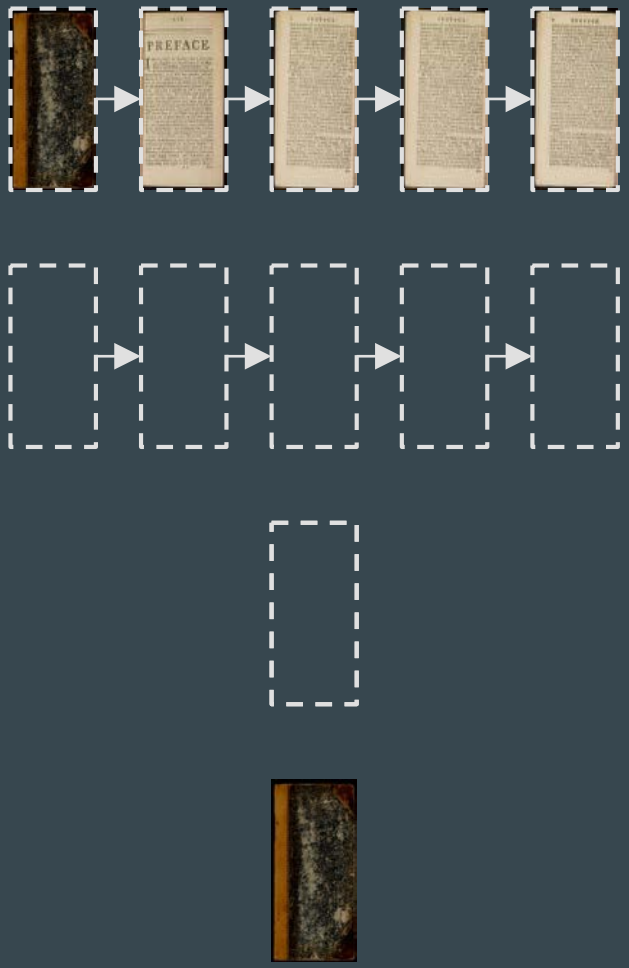


```
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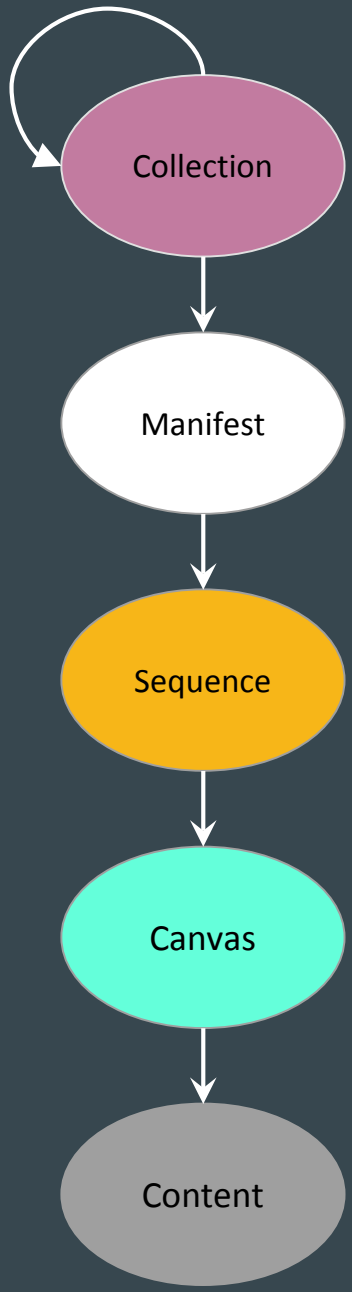
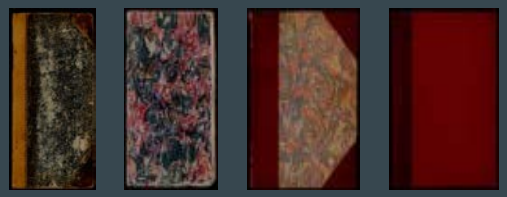
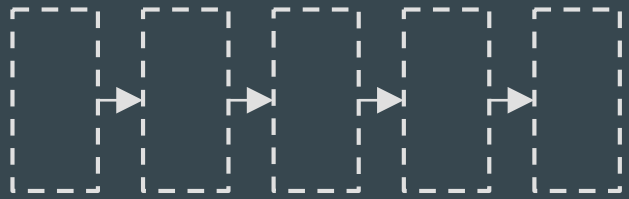
  metadata: [
    { label: "Author", value: ["Benjamin Hoadly"] }
  ]
  …
}
```





```
{
  label: "The XYZ Collection"
  manifests: [
    …
  ]
}
```

```
{
  label: "The institution of civil government"
  metadata: [
    { label: "Author", value: ["Benjamin Hoadly"] }
  ]
  …
}
```

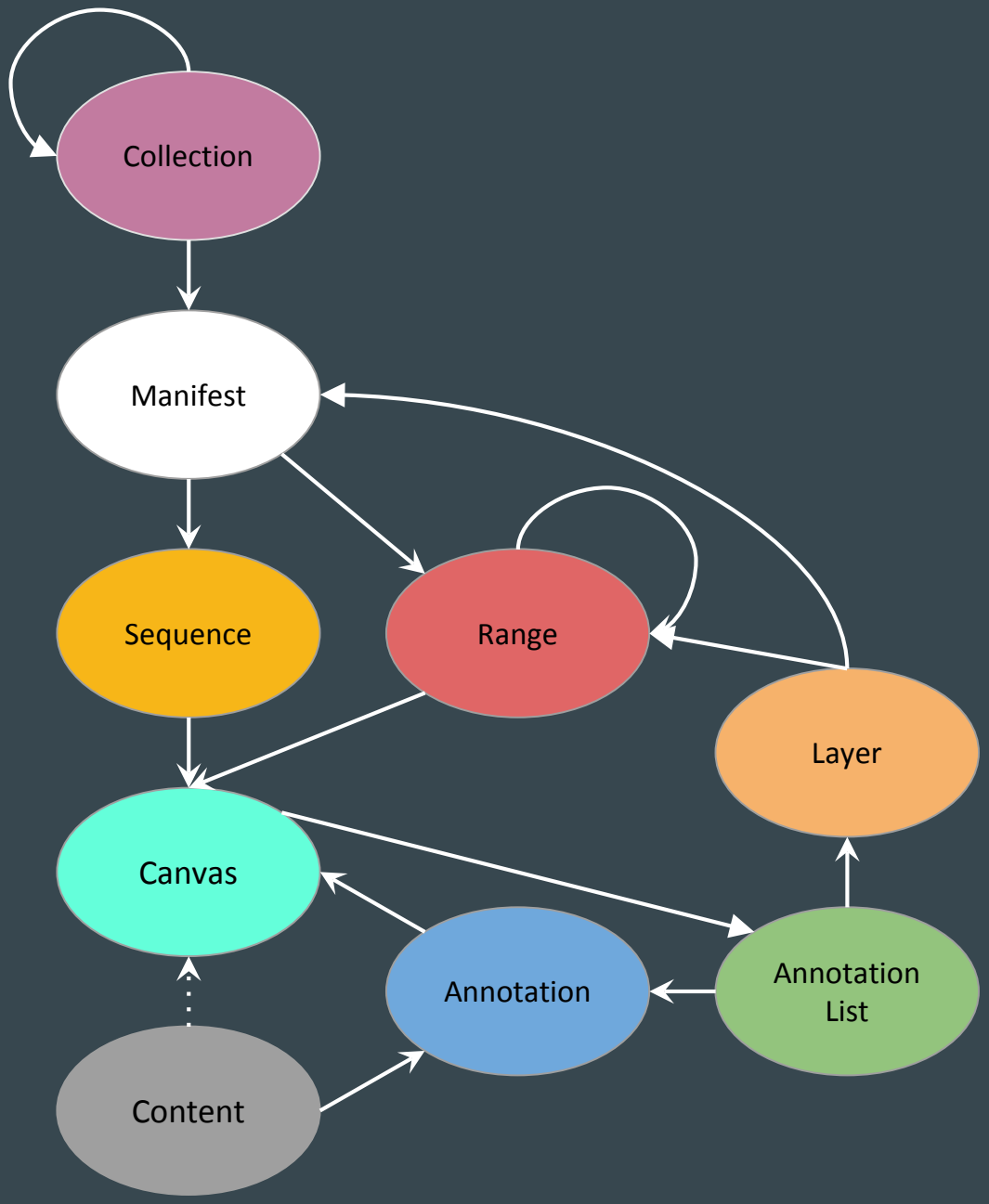


Other Properties

- Descriptive Properties
  (label, metadata, description, thumbnail)
- Rights and Licensing Properties
  (attribution, license, logo)
- Technical Properties
  (viewing direction, viewing hints, width, height, ...)
- Linking Properties
  (related, see also, start canvas, within, ...)
- Paging Properties
  (first, last, next, total)

Other Types

- Annotation
- Annotation List
- Layer
- Range



Sample Manifest

http://dams.llgc.org.uk/iiif/archive/3975658/fonds.json

https://goo.gl/df3xxb

(bandwidth permitting)

Coming Soon: IIIF A/V & Presentation 3.0

- British Library “Save our Sounds” grant from Mellon Foundation
- Add a time dimension to the Canvas model
- Change to W3C Web Annotation Data Model (from Open Annotation)
- Late 2018?

IIIF Content Search API

http://iiif.io/api/search/1.0/

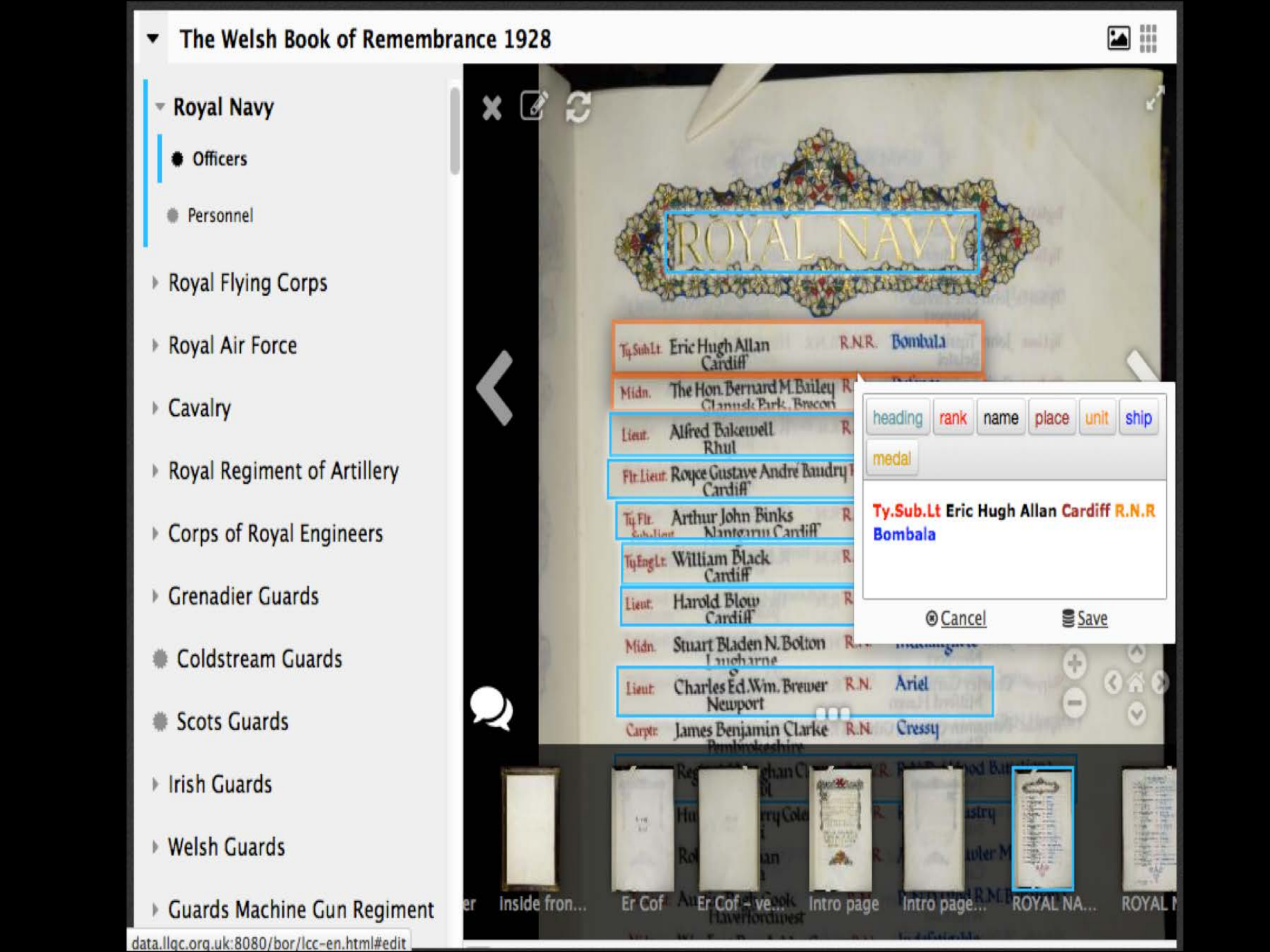
IIIF Content Search API

- http://iiif.io/api/search/1.0
- Specification for searching within **annotations** in a single IIIF resource -- implements ^F like functionality

Parameter	Definition
q	A space separated list of search terms. The search terms MAY be either words (to search for within textual bodies) or URIs (to search identities of annotation body resources). The semantics of multiple, space separated terms is server implementation dependent.
motivation	A space separated list of motivation terms. If multiple motivations are supplied, an annotation matches the search if any of the motivations are present. Expected values are given below.
date	A space separated list of date ranges. An annotation matches if the date on which it was created falls within any of the supplied date ranges. The dates MUST be supplied in the ISO8601 format: YYYY-MM-DDThh:mm:ssZ/YYYY-MM-DDThh:mm:ssZ. The dates MUST be expressed in UTC and MUST be given in the Z based format.
user	A space separated list of URIs that are the identities of users. If multiple users are supplied, an annotation matches the search if any of the users created the annotation.

Annotation motivation terms

Motivation	Definition
`painting`	Only annotations with the `sc:painting` motivation
`non-painting`	Annotations with any motivation other than `sc:painting`
`commenting`	Annotations with the `oa:commenting` motivation
`describing`	Annotations with the `oa:describing` motivation
`tagging`	Annotations with the `oa:tagging` motivation
`linking`	Annotations with the `oa:linking` motivation


The Welsh Book of Remembrance 1928
Royal Navy
Officers
Personnel
Royal Flying Corps
Royal Air Force
Cavalry
Royal Regiment of Artillery
Corps of Royal Engineers
Grenadier Guards
Coldstream Guards
Scots Guards
Irish Guards
Welsh Guards
Guards Machine Gun Regiment
ROYAL NAVY
Ty.Sub.Lt. Eric Hugh Allan Cardiff R.N.R. Bombala
Midn. The Hon. Bernard M. Bailey
Lieut. Alfred Bakewell Rhul
Flt.Lieut. Royce Gustave André Baudry Cardiff
Ty.Flt. Arthur John Binks
Ty.Eng.Lt. William Black Cardiff
Lieut. Harold Blow Cardiff
Midn. Stuart Bladen N. Bolton
Lieut. Charles Ed.Wm. Brewer Newport R.N. Ariel
Carpt. James Benjamin Clarke R.N. Cressy
heading
rank
name
place
unit
ship
medal
Ty.Sub.Lt Eric Hugh Allan Cardiff R.N.R Bombala
Cancel
Save
Inside fron...
Er Cof
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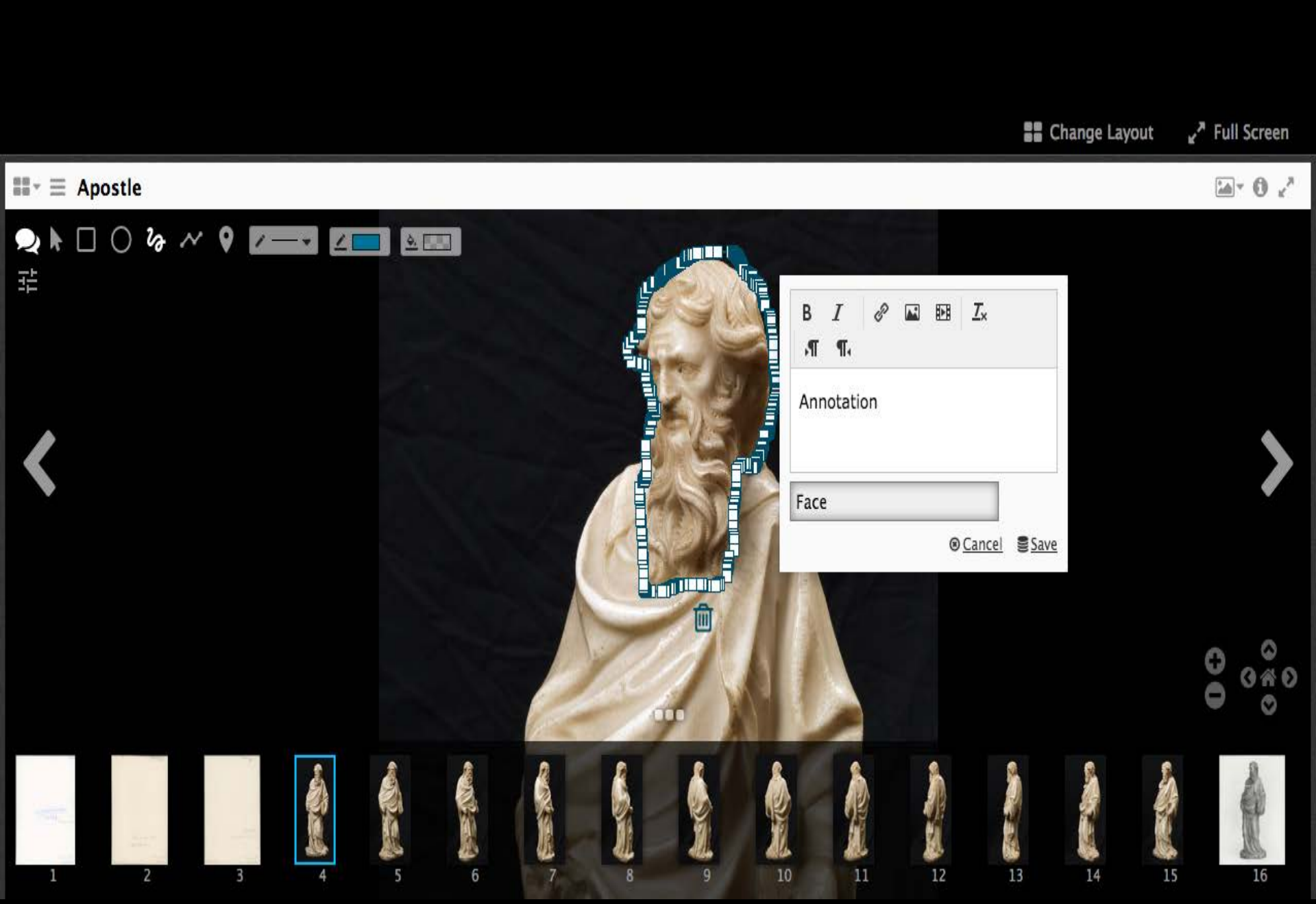
Intro page
Intro page...
ROYAL NA...
data.llgc.org.uk:8080/bor/lcc-en.html#edit


Change Layout
Full Screen
Apostle
Annotation
Face
Cancel
Save
1
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15
16

Who is using the Search API?

- The British Library
- University College Dublin
- National Library of Wales
- The Wellcome Trust
- North Carolina State University
- 34+ institutions investigating or developing support

CONTENTS

1

2

3

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ATTRIBUTION

The Nubian Message (LH1 .H6 N83), Special Collections Research Center at NCSU Libraries

THE NUBIAN MESSAGE

The Afrikan American Voice of North Carolina State University

Special Edition | Established in 1992 | April 1, 1996

Special Edition In Honor of Dr. Augustus McIver Witherspoon

Inside Today

News

The Legacy of Dr. Augustus McIver Witherspoon

by LaTonya Dunn

Dr. Augustus McIver Witherspoon

A Profound Warrior For Us All

by Rochelle Carlton

see Grant, page 3

MORE INFORMATION

Search within:

CONTENTS

1

2

3

4

ATTRIBUTION ×

The Nubian Message (LH1 .H6 N83), Special Collections Research Center at NCSU Libraries

THE NUBIAN MESSAGE

The African-American Voice of North Carolina State University

Special Edition | Established in 1992 | April 1, 1995

Special Edition In Honor of Dr. Augustus McIver Witherspoon

Inside Today

News

The Legacy of Dr. Augustus McIver Witherspoon

by LaTonya Dunn

Dr. Augustus McIver Witherspoon

A Profound Warrior For Us All

by Rochelle Carlton

see Grant, page 3

carolyn
carofina
carolina
carlton
career
carving

Search within: Car

MORE INFORMATION

CONTENTS

1

2

3

4

Community Choir from St. Luke's Afrikan Methodist Episcopal Church where Witherspoon preached. The keynote speaker will be Dr. Brenda Allen, coordinator of Afrikan-American Student Services at the College of Textiles.

Dr. Witherspoon dedicated most of his life to educating future leaders of America. After obtaining a bachelor's degree from Claflin College in Orangeburg, South Carolina, Witherspoon taught high school science in Lumberton and Rocky Mount, from 1953 to 1966.

He came to NCSU as a graduate student and received a master's degree in 1968. While helping to establish an Afrikan-American Cultural Center, he received his doc- [illegible] Witherspoon then [illegible] graduate teaching assis- [illegible] to a professor, Assistant Dean to

Staff Photo

Dr. Augustus McIver Witherspoon

a citation [illegible] appreciation fro the Board [illegible] Trustees for lea ership, researc and educatio He was als named to th Order of Th Long Leaf Pi by Governo James B. Hu for his service the state of Nor Carolina.

Chancell Larry Monteith state " G u Witherspoon wa a trailblazer. renaming this ce ter, we commen

ATTRIBUTION ×

The Nubian Message (LH1 .H6 N83), Special Collections Research Center at NCSU Libraries

MORE INFORMATION

page 1 of 4

Previous Result 7 results found for 'carolina' Clear Next Result

Live search example

- Wellcome Library
  - Origin of Species (1st ed.) -- https://wellcomelibrary.org/item/b1802922x
  - Short link https://goo.gl/BVJjs6
  - E.g. “finches” or “fitness”

Note that the IIIF Search API doesn’t specify how the search interface is presented to the user, it specifies the back-end mechanism by which the client can query annotation content on any IIIF Search API compatible server.

But what about discovery?

- Search API provides only search over annotations *within* IIIF resources
- Discovery TSG working on ways to support discovery of IIIF resources
  - http://iiif.io/community/groups/discovery/charter/
- 4 areas of work
  - **1. Crawling and Harvesting** (recently agreed split into 2 subsections)
  - **2. Content Indexing**
  - **3. Change Notification**
  - **4. Import to Viewers**

IIIF Authentication API

http://iiif.io/api/auth/1.0/

IIIF Authentication API

- http://iiif.io/api/auth/1.0/
- v1.0 released January 19, 2017
- (18 months from first public draft)

Doesn't do authentication *per se* but provides an interaction pattern allowing existing authentication infrastructure (CAS, OAuth, etc.) to be used to control access to IIIF resources

IIIF Authentication API

Specification describes how to

- From within a viewer, initiate an interaction with an access control system so that a user can acquire the credentials they need to view restricted content
- Give the client just enough knowledge of the user’s state with respect to the content provider to ensure a good user experience (including providing alternate images)

Authentication patterns

`Login`

- The user will be required to log in using a separate window with a UI provided by an external authentication system.

`Click through`

- The user will be required to click a button within the client using content provided in the service description.

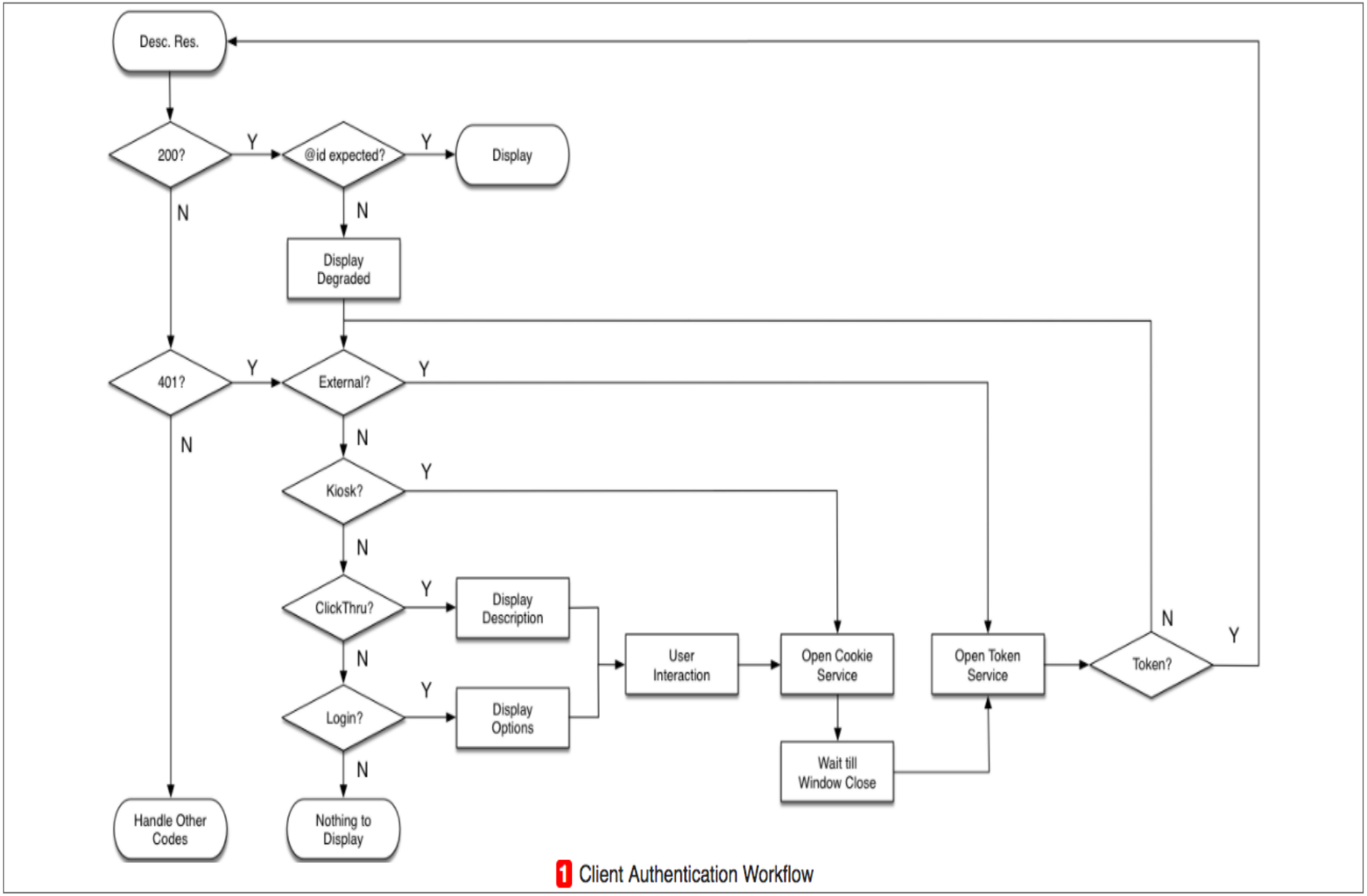
`Kiosk`

- The user will not be required to interact with an authentication system, the client is expected to use the access cookie service automatically.

`External`

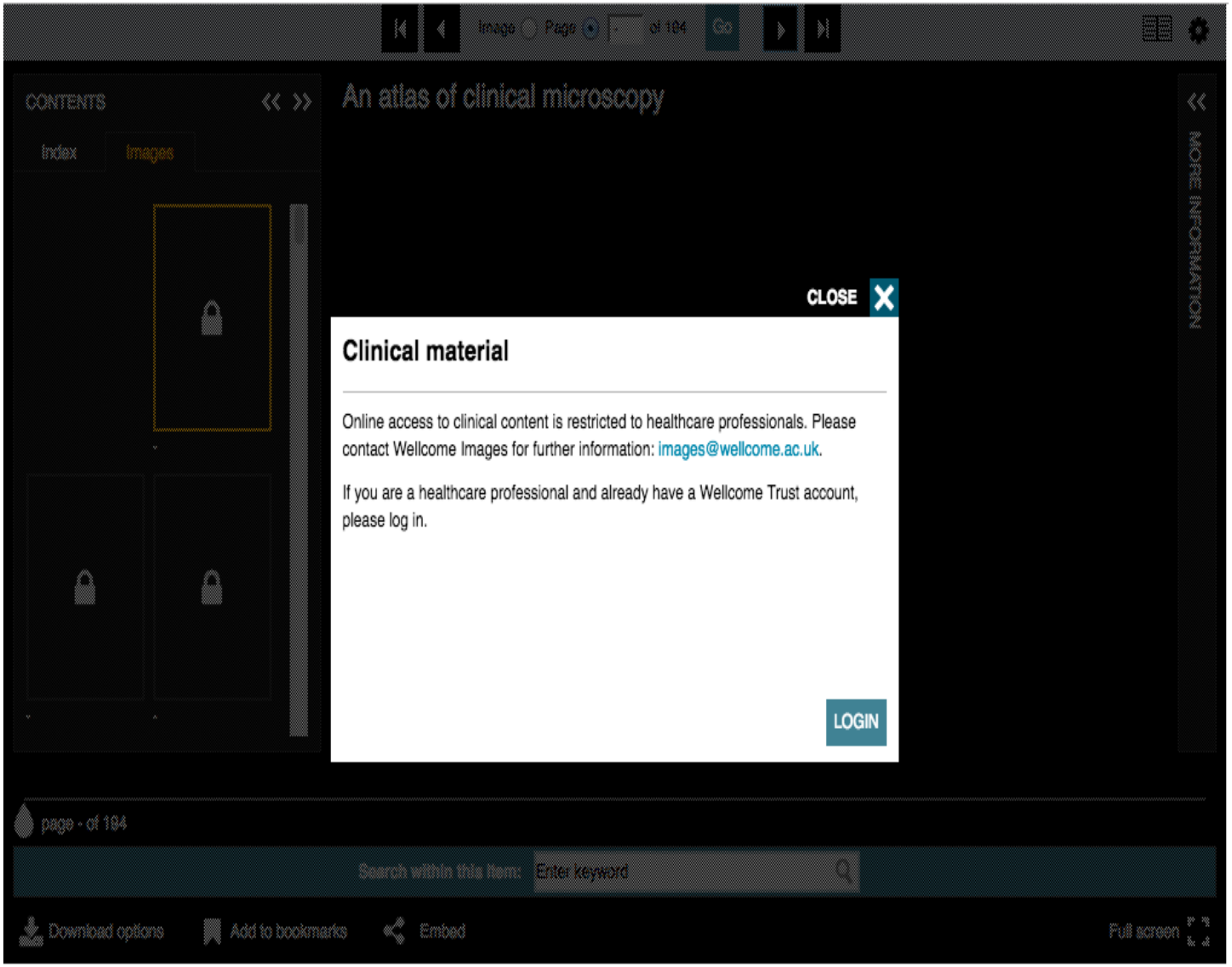
- The user is expected to have already acquired the appropriate cookie, and the access cookie service will not be used at all.

4. Workflow from the Browser Client Perspective



1 Client Authentication Workflow

Login



Image
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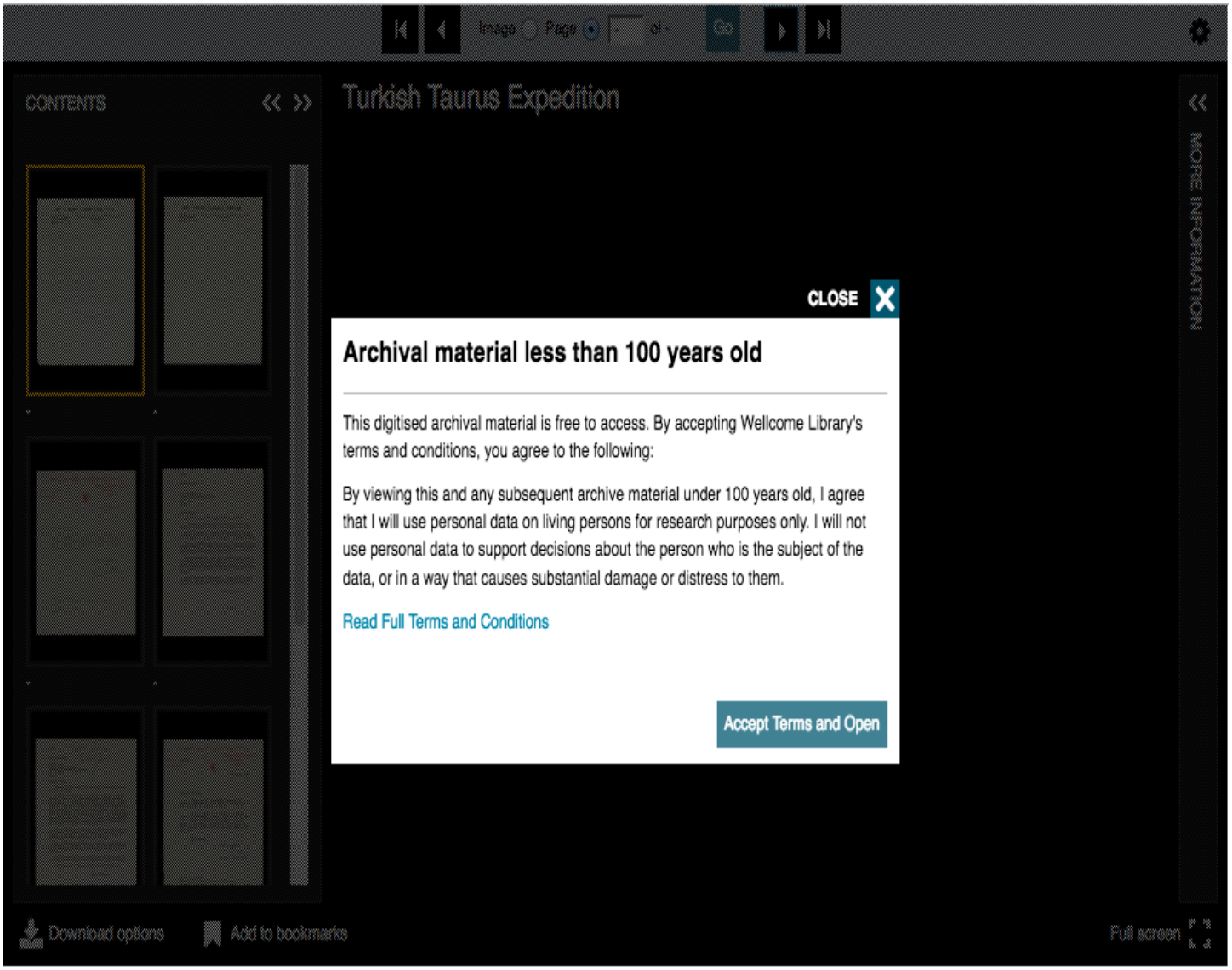
CONTENTS
Index
Images
An atlas of clinical microscopy
MORE INFORMATION
CLOSE
Clinical material
Online access to clinical content is restricted to healthcare professionals. Please contact Wellcome Images for further information: images@wellcome.ac.uk.
If you are a healthcare professional and already have a Wellcome Trust account, please log in.
LOGIN
page - of 184
Search within this item:
Enter keyword
Download options
Add to bookmarks
Embed
Full screen

Click-through



IIIF Authentication API implementations

- British Library
  - In copyright material
  - Staff access
  - Single user access within the building
- The Wellcome Library
- Getty
  - Staff access off site to private material
  - On site for copyright
- Auth Playground:
  - https://iiifauth.digtest.co.uk/
  - paste manifests into e.g.http://universalviewer.io/examples/

HTTPS and mixed-content

All of the IIIF specs work over either HTTP or HTTPS (though you shouldn't ever use authentication with HTTP)

BUT, plain HTTP and HTTPS do not play well together. Browsers block mixed-content, see e.g.

- https://developer.mozilla.org/en-US/docs/Web/Security/Mixed_content and
- https://www.jack-reed.com/2017/05/23/the-case-for-serving-your-iiif-content-over-https.html

HTTPS – Just do it! Everyone should.

API Specifications Roadmap

API Specifications Roadmap

- ~~Image and Presentation APIs 2.1.1~~ - 2016-05-12
- ~~Authentication API 1.0~~ - 2017-01-19
- **Image and Presentation APIs 3.0 (Open Annotation to Web Annotation, support for A/V) - feature freeze 2017-12, beta draft 2018-05, publish fall 2018 if there are sufficient implementations**

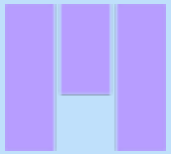
Later:

- Search API 2.0 - will need updates from Open Annotation to Web Annotation to match Presentation 3.0
- Auth API 1.1 - with a view to controlling modifying events as well as read

IIIF Implementations & Demonstrations

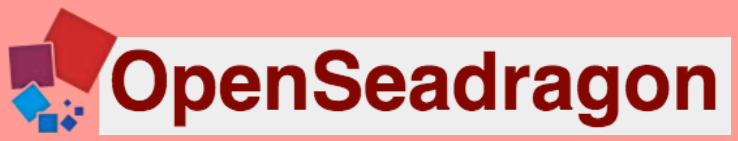
Compatible Software

Universal Viewer



Mirador

Internet Archive Book Reader



IIP Moo Viewer

Leaflet JS

FSI Viewer

IIP Image

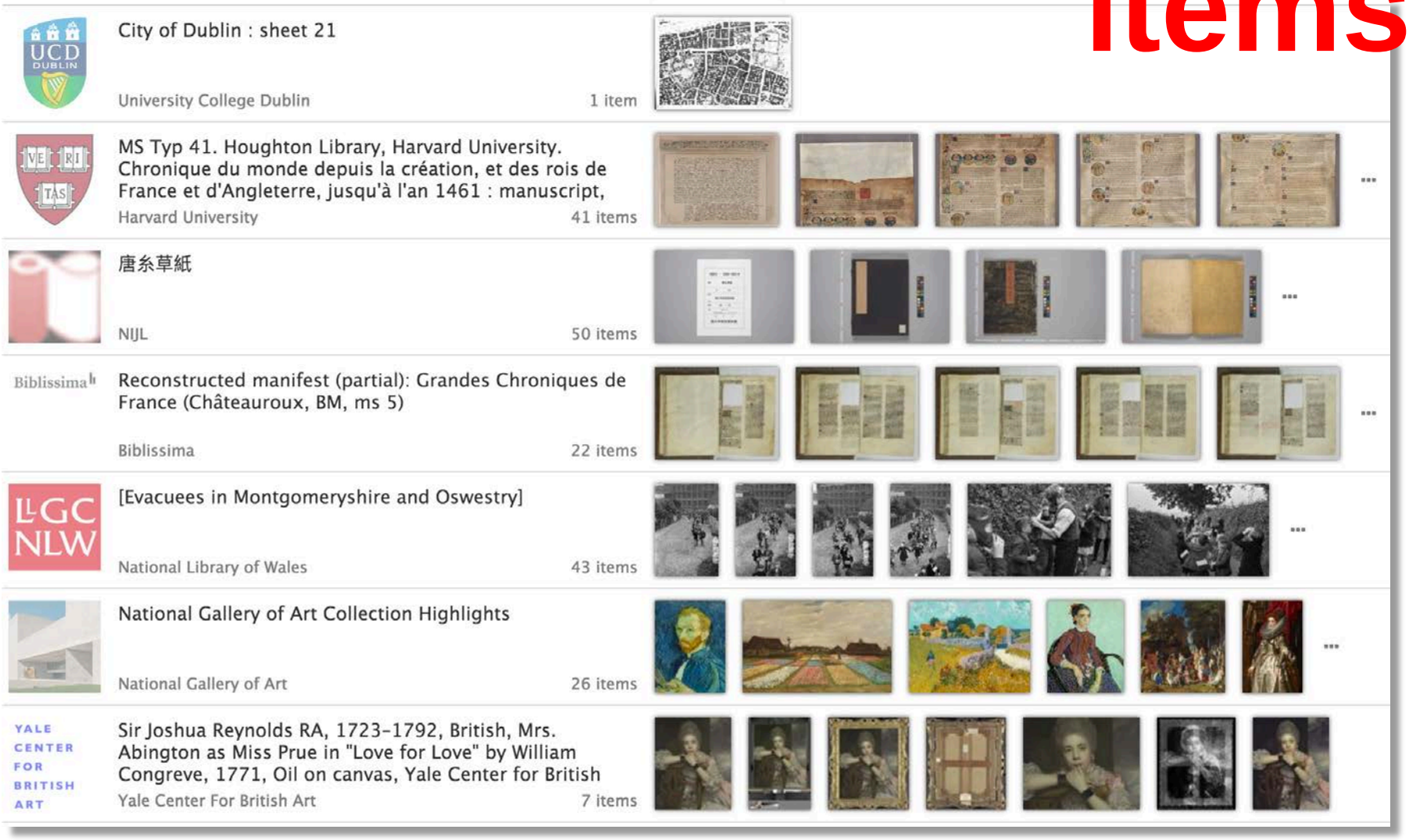
FSI Server

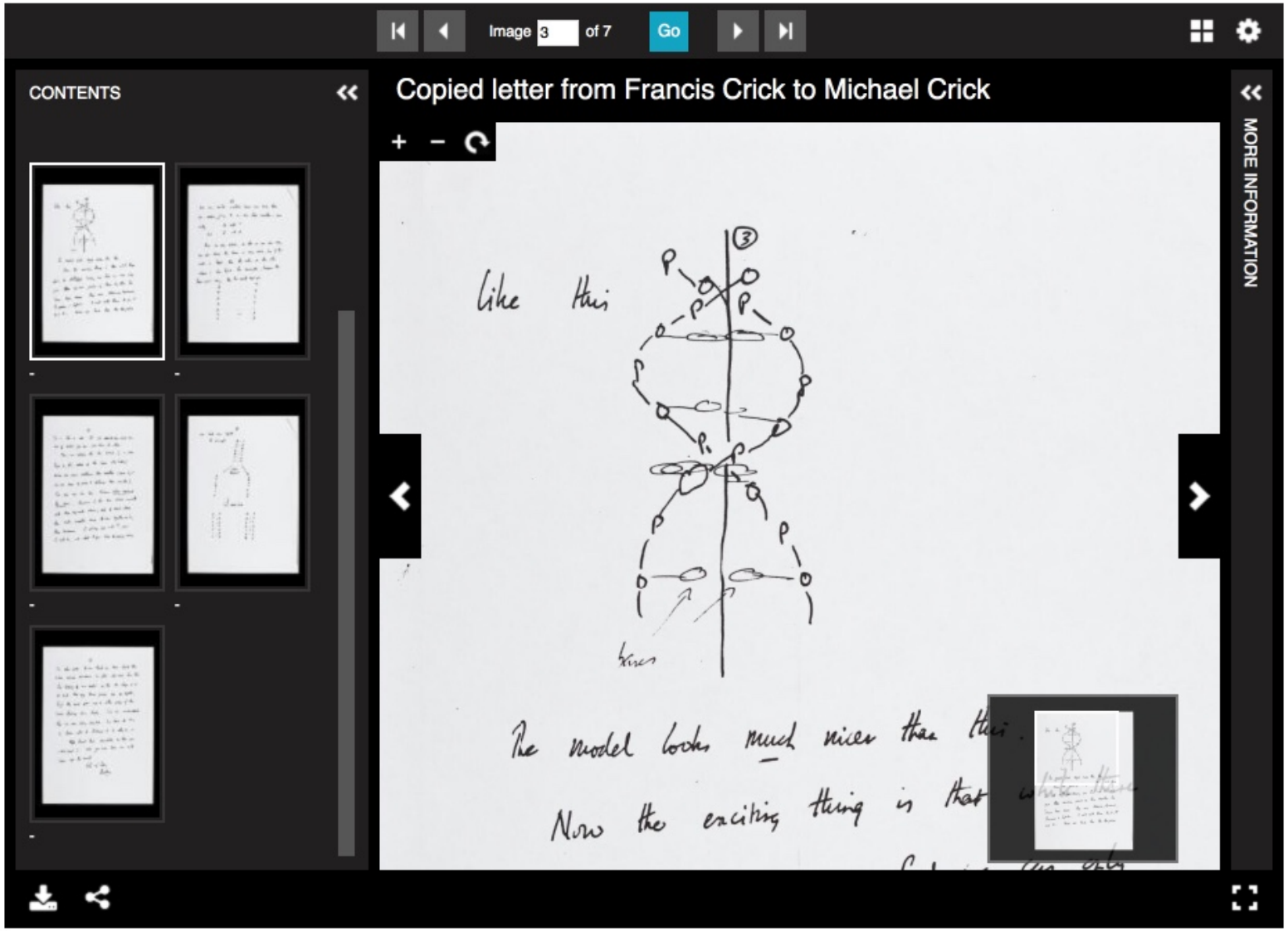
digilib

Static Files*

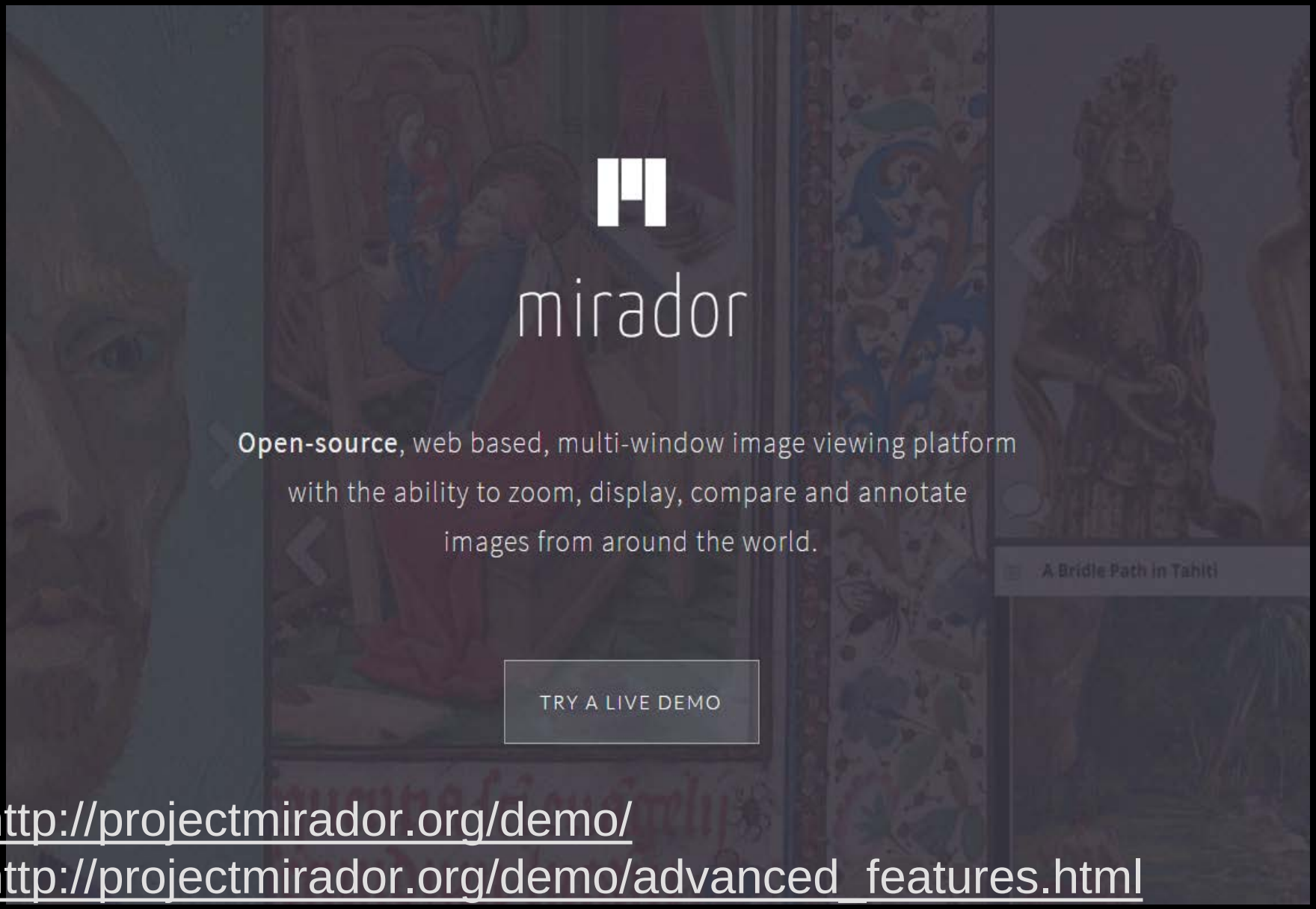
A Taste of the IIIF Universe

335,000,000+ items





http://universalviewer.io/examples/



http://projectmirador.org/demo/
http://projectmirador.org/demo/advanced_features.html
http://projectmirador.org/

2: Select Image Size

Select output image width: 1366px 1024px 800px 400px 150px – other:

Tip: When downloading a full map sheet or very large image (width > 8000 pixels), select an output image value of 8000 or higher in the **Other** box. There is no need to add 'px' to the end of the integer.

3: Select Image Options

Select output image format: JPEG

Select output image rotation: 0 90 180 270

Select output image quality: default colour

4: Save or Link the image

Click on the 'Preview this image' button to open your image in a new window for download. Right click on the image to save to your computer.

Preview this image

Download this image

Or copy the URL below to create a persistent hyperlink to your custom image.

http://bit.ly/iiif-crop

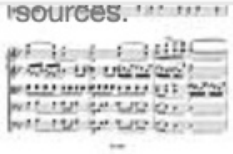
Musiclibs

https://musiclibs.net/manifests/2e04e357-5225-4899-ae7c-823baf12f8af/?q=janacek

janacek

Search 67323 documents from 12

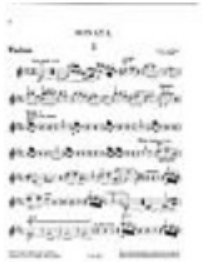
>> Pitch Search (Experimental)



The Internet Archive

Author

Janáček, Leoš



Violin Sonata

iiif.archivelab.org

Source

The Internet Archive

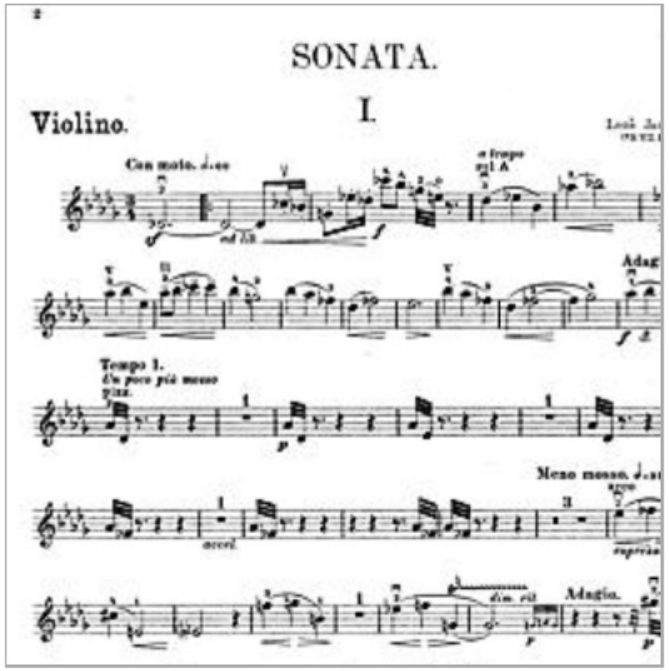
Author

Janáček, Leoš

Zoom level: 2

Page 1 of 7

Go



Violin Sonata

title

Violin Sonata

subject

Sonatas. For violin, pian

Scores featuring the viol

Scores featuring the pia

For 2 players

date

1915

creator

Janáček, Leoš

About

DDMAL DISTRIBUTED DIGITAL MUSIC ARCHIVES & LIBRARIES LAB

SIMSSA Single Interface for Mus Score Searching and Ar

https://musiclibs.net/manifests/2e04e357-5225-4899-ae7c-823baf12f8af/?q=janacek

Endangered Archives Programme

Hosted by the British Library, example Armenian text Ոսկեայ Դուռն Դպրատան [Voskeay durn dpratan], 1699

- http://eap.bl.uk/archive-file/EAP180-1-1-30
- in UV: http://eap.bl.uk/archive-file/EAP180-1-1-30#?c=0&m=0&s=0&cv=13&xywh=-102%2C112%2C2337%2C2266
- can also drag-and-drop into Mirador: http://projectmirador.org/demo/

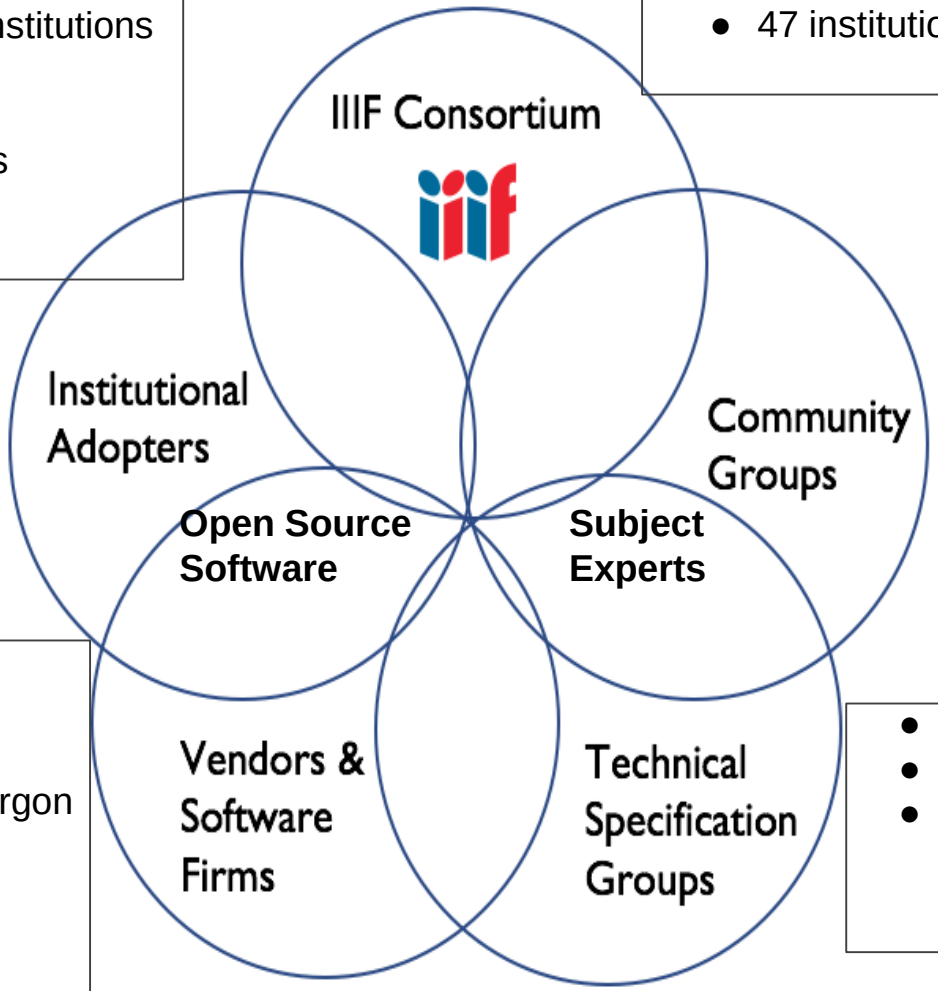
IIIF Community

IIIF Community Landscape

- Libraries
- Museums
- Research Institutions
- Archives
- Galleries
- Aggregators

- 47 institutional members

- Cogapp
- Digirati
- Klokan Technologies
- LUNA Imaging
- OCLC - ContentDM
- Synaptica
- Zegami
- 4Science
- Etc.



- Manuscripts
- Museums
- Newspapers
- Software Developers

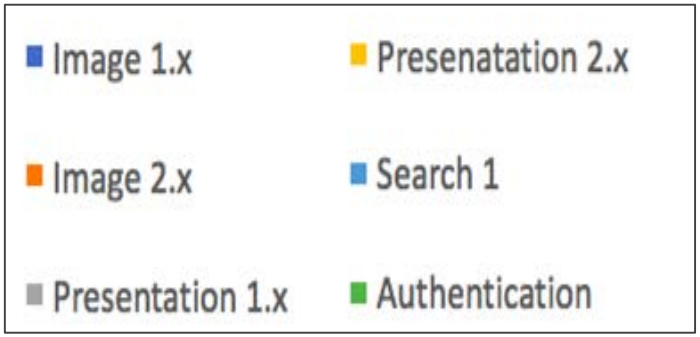
- Mirador
- Universal Viewer
- OpenSeadrgon
- Loris
- IIPImage

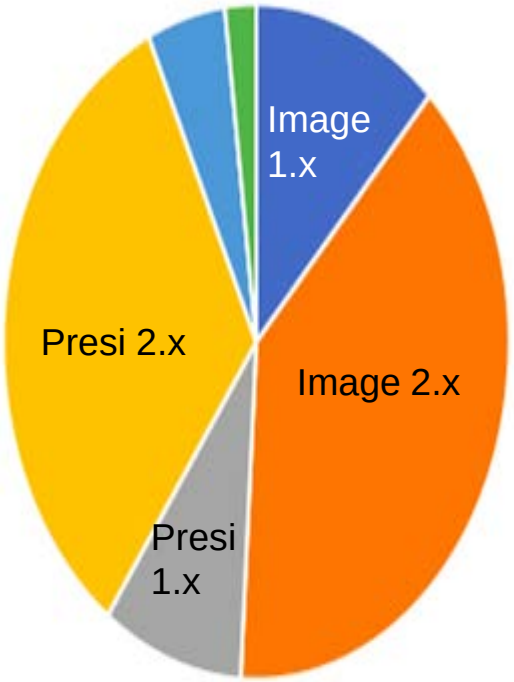
- Audio/Visual
- Discovery
- Text Granularity

Institutional Adoption

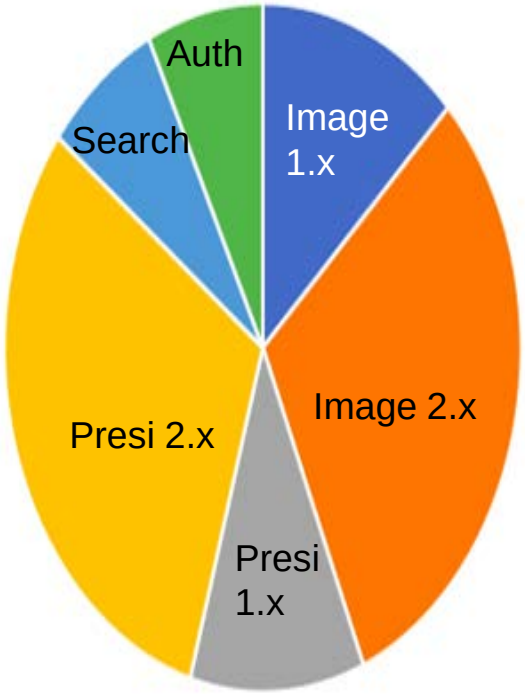
http://iiif.io/community/

IIIF Adopters Survey (2017)

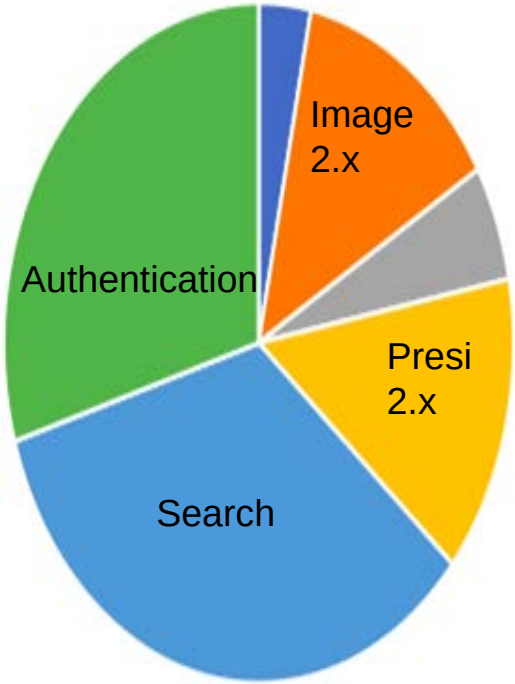




Production



Development



Investigating

Global Community

- 100+ organizations
- 345+ million images

IIIF Community Groups

http://iiif.io/community/groups

- Manuscripts
- Newspapers
- Museums
- Software Developers

Technical Specification Groups

As needs arise within the community, new technical specification groups are formed, currently:

- IIIF A/V
- IIIF Discovery
- IIIF Text Granularity

New use cases considered as IIIF evolves:

- https://github.com/IIIF/iiif-stories

IIIF Consortium (IIIF-C)

http://iiif.io/community/consortium

- 47 institutional members
- Sustainability and steering for IIIF
- Organizational structure:
  - Executive Committee – core founding members, high level direction
  - Coordinating Committee – active leaders for week to week activities
  - Editorial Group – writes API specifications
- Funds two staff positions:
  - Community Coordinator (Sheila Rabun)
  - Technical Coordinator (Glen Robson)
- Additional Founding Members – through 2017

Consortial Business

- Hiring a technical coordinator
- Opening up new tiers of membership in 2018
- Seeking partners
  - Software firms
  - Contractors & consultants
  - Training
  - Complementary projects & associations
  - Please join the IIIF Consortium

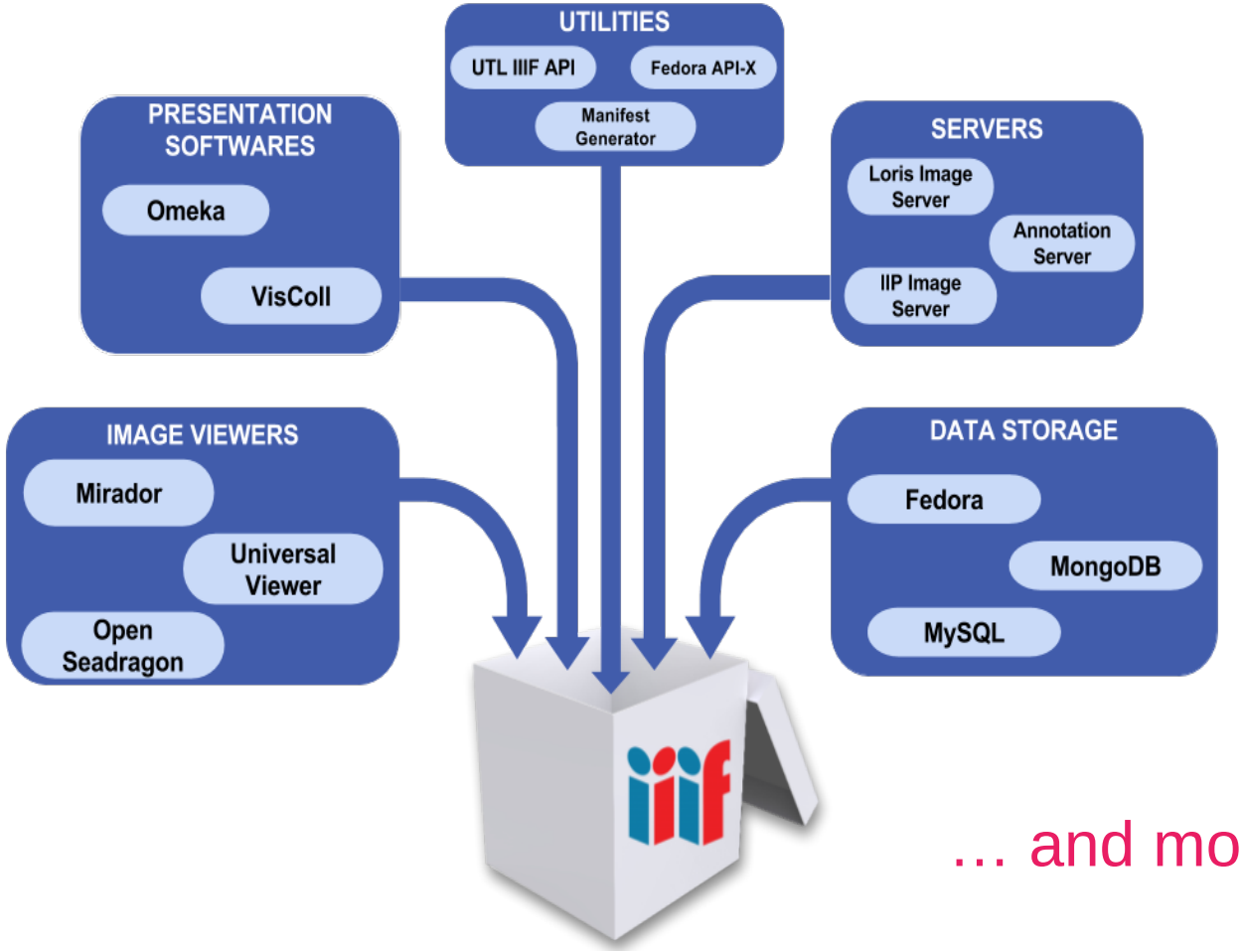
Partnerships and Projects

- OpenJPEG improvement project
- Grant-funded projects:
  - Newspapers in Hydra (IMLS)
  - Avalon Media System (IMLS)
  - Save our Sounds (Mellon)
- DHSI Summer Institute 2018
- American Art Collaborative consulting pilot

Emerging Trends

- Increasing adoption & experimentation
- STEM imaging, publishing, DH
- Improving documentation for implementers and end users
- Lowering the barriers to adoption

IIIF to go



… and more!

Getting your hands dirty with the Digital Manuscripts Toolkit

7 April 2017 11.30am — 1.30pm

Venue: Centre for Digital Scholarship, Weston Library (Map)

Speaker(s): Emma Stanford, Digital Research, Bodleian Libraries

Contact: Emma Stanford emma.stanford@bodleian.ox.ac.uk

Description

In this workshop offered jointly by Bodleian Digital Library Systems and Services and the Centre for Digital Scholarship, you'll learn how to make the most of the digitized resources at the Bodleian, the BnF, the Vatican Library and a host of other institutions, using software tools built around the International Image Interoperability Framework (IIIF). After a brief introduction to the main concepts of IIIF, you'll learn how to use Mirador and the Digital Manuscripts Toolkit to gather images from different institutions into a single viewer; rearrange, remix and enhance image sequences and add new descriptive metadata; add transcriptions and annotations to digitized images; and embed zoomable images or whole manuscripts into your own website or blog. You'll leave with your own virtual workspace, stocked with the images you're using.

Add to calendar

Add this event to your calendar (iCal)

Related links

Visitor information
Plan your visit to the Bodleian Libraries

Sign up for our *What's on*

Europeana IIIF Task Force

Timeframe: February to June 2017

Led by: Austrian National Library

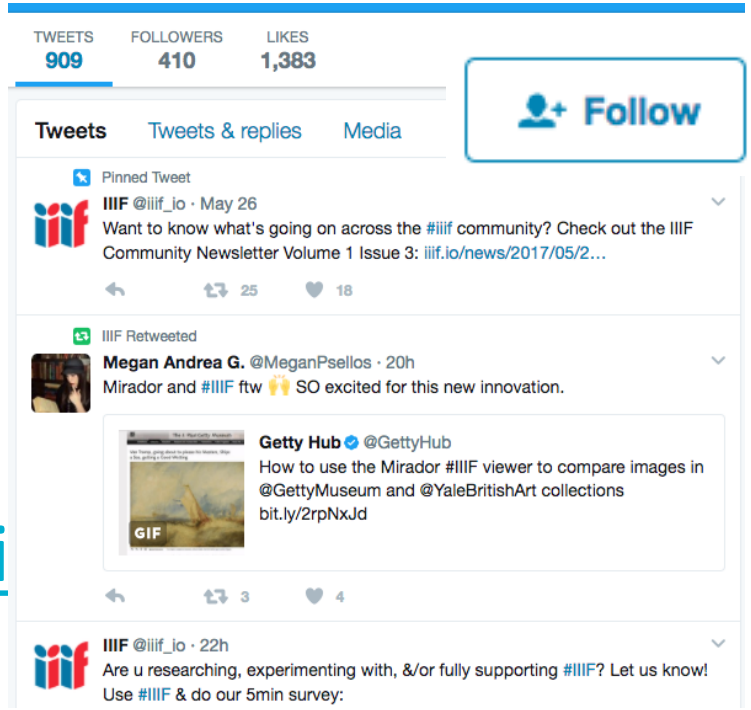
Purpose: Identify current trends and tendencies towards IIIF by the Europeana content providers. Europeana has adopted IIIF but a large portion of the Europeana Network is unaware and unsure of IIIF.

Output: Recommendations Report

CC BY-SA

Communication Channels

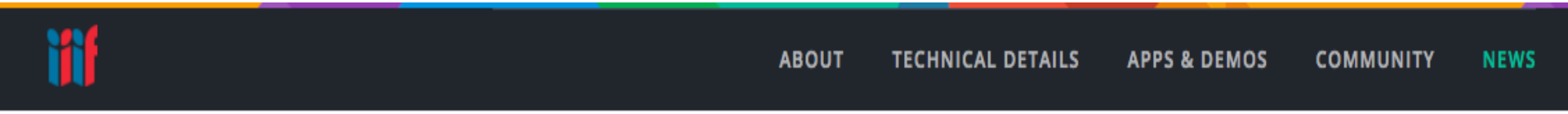
- http://iiif.io/community
- IIIF-Discuss email list
  - Recurring calls
- Slack
- Twitter @iiif_io #IIIF
- GitHhub: http://github.com/ii



Where to Learn More

- IIIF YouTube channel
- GitHhub: http://github.com/iiif
  - Awesome-IIIF List https://github.com/IIIF/awesome-iiif
- Annual in-person events: http://iiif.io/event
  - Working Meetings
  - Conferences
- Email : srabun@iiif.io

IIIF Community Newsletter



IIIF Community Newsletter, Volume 1 Issue 3

Date: 25 May 2017
Author: Sheila Rabun

Community Snapshot

- IIIF-Discuss = 692 members
- IIIF Slack = 362 members
- IIIF Consortium = The IIIF-C continues to welcome founding members. See the IIIF Consortium information page for details and how to join.
- Search process for a IIIF Technology Coordinator is currently underway.

http://iiif.io/news

Ways to Participate!

- Use IIIF
- Join IIIF-C
- Help represent & advocate for IIIF
  - Within your institution
  - Within your region
  - Within your sector
  - At conferences & events
- Share your deployments
- Share your ideas
- Join the calls, Slack, a group
- Lead a group!
- Run a local event

What’s in it for me?

IIIF is Good for You

- Rich image delivery (A/V too soon)
- Plug-and-play server and client software
- Publish once, reuse often
- Support for attribution and access control

IIIF is Good for Sharing

- Remix content from others
- Cite and share
- Annotation-friendly
- Join a global network

Why IIIF

"It's like going from the 18th century to the 21st century in a single click."
– Franziska Frey, Harvard

"IIIF is good for us. IIIF is good for sharing."
– Glen Robson, National Library of Wales

"IIIF doesn't just keep you out of silos; it keeps you out of dead ends."
– Richard Higgins, Durham University

IIIF

- Dramatically reduces the friction of delivering image-based resources on the Web
  - Bigger, better, faster, deeper, cheaper, more modular and more flexible
- Creates radical new capabilities to do *more than view* resources
  - interact, remix, manipulate, annotate
- Is a pool of resources, software, individuals and institutions that work together.

Discussion