

Everything you ever wanted to know about IIIF but were too afraid to ask



A workshop for DPLAfest 2016, Washington D.C.

Tristan Roddis, Cogapp
Esmé Cowles, Princeton University Library

Antoine Isaac, Europeana
Mark Matienzo, Digital Public Library of America

Images are fundamental information carriers for cultural heritage



... day was a big happy Mexican, overanxious to please. XXXXXXXXX seven another wild day began. Boiled into that and took Freddy did the explaining-- He stank. I found out what truck. Freddy always had about things. He always go!" And he went. He



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Yet, we hear the following
from research & memory
organizations....



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I am locked into my image delivery software



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I need a newer, faster image server (and I can't spend much time or money on it)



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I want deep zoom (on mobile)

La Vierge au voile
Raphael
1500 - 1520
680 x 485 mm
Musée du Louvre
© copyright 2013 C2RMF



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I want to allow users to visually compare objects in the collection...



...



...



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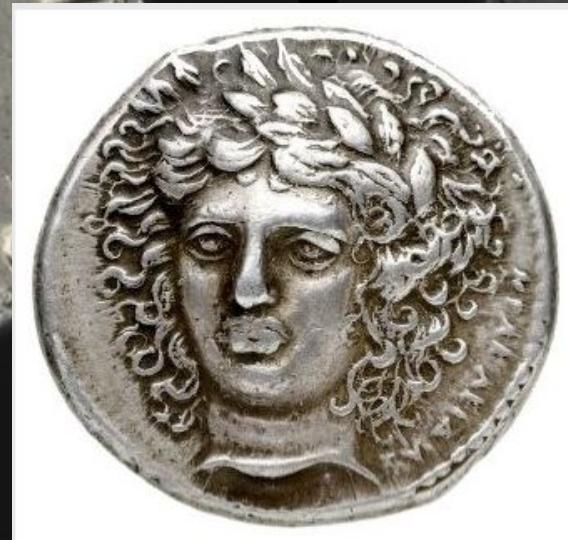
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...with objects from other collections



...



...



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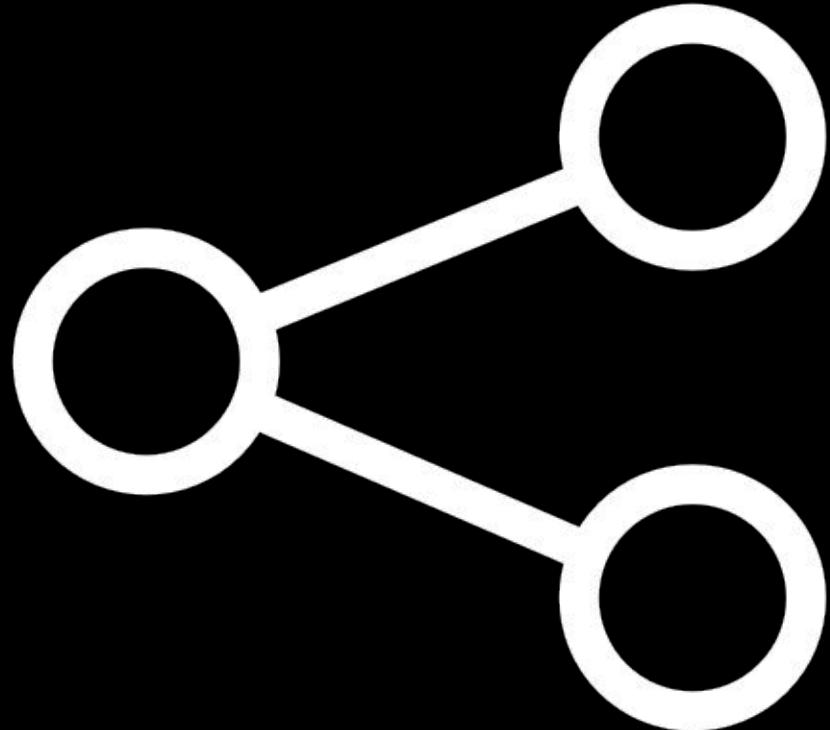
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I want to make it easy for my users to cite and share my images



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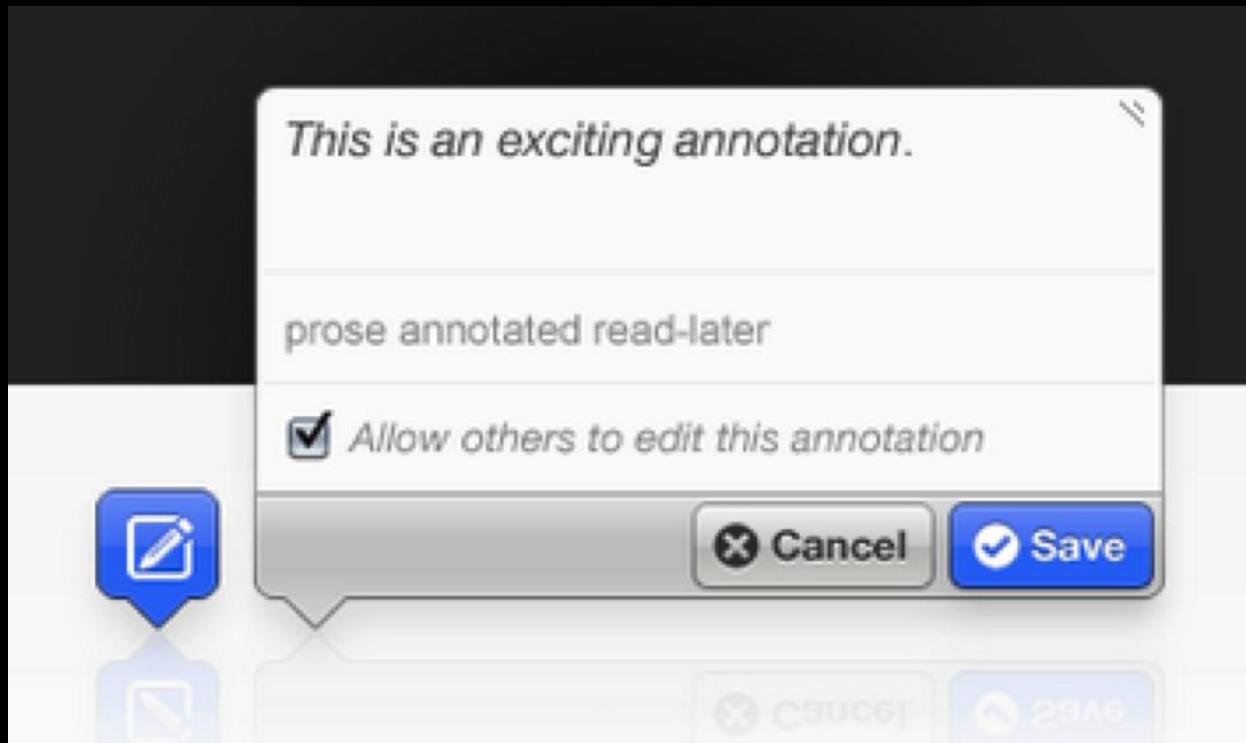
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I want to allow visitors to annotate my images online



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I want to allow embedding of my images in blogs and web pages

1973 United Farmworkers Union, American Federation of Labor - Congress of Industrial Organizations,...

1 image



+

–

C

↗

Embed X

SELECT OPTIONS:

title (*1973 United Farmworkers Union, American Federation of Labor - Congress of Industrial Org...*)

download

embed

EMBED CODE:

```
<iframe src='//embed-stage.stanford.edu/iframe?url=http://purl.stanford.edu/nn609kz1199' height='593px' width='593px' frameborder='0' marginwidth='0' marginheight='0' scrolling='no' allowfullscreen></iframe>
```

 <http://purl.stanford.edu/nn609kz1199>



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... without losing control of them



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And I shouldn't have to
invent any of it.



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In short, digital image delivery is...

...too hard

...too slow

...too expensive

...too disjointed

...too ugly

...and we all suffer because of it.



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There is a better way...



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A Community
that develops Shared APIs,
implements them in Software,
and exposes interoperable Content



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IIIF History

- Conceived in 2011
- Evolution of standards
- Adoption by organizations worldwide



IIIF Community

ARTstor
Bayerische Staatsbibliothek
La Bibliothèque nationale de France
Biblissima
British Library
British Museum
Brown University
Cogapp
Columbia University
e-codices – Virtual Manuscript Library of Switzerland
Cornell University
Digital Public Library of America
Digital Image Archive of Medieval Music (DIAMM)
Digirati Ltd
Europeana
The J. Paul Getty Trust
Ghent University
Gottingen State and University Library

Harvard University
Indiana University
Internet Archive
Johns Hopkins University
Klokan Technologies
Leiden University
MIT Libraries
National Gallery of Art
National Library of Austria
National Library of Norway)
National Library of Denmark
National Library of Egypt
National Library of Israel
National Library of New Zealand
National Library of Poland
National Library of Serbia
National Library of Wales
New York University Libraries
Ohio State University
Oxford University (Bodleian Library)

Princeton University Library
Qatar National Library
Sirma Group
St. Louis University
Stanford University
TextGrid
text & bytes
University College Dublin
University of Hong Kong
University of Illinois at Urbana-Champaign
University of Notre Dame
University of Pennsylvania
University of Toronto
Vatican Library
The Walters Art Museum
Wellcome Trust
World Digital Library
Yale Center for British Art
Yale University



IIIF Community

First conference: NYC next month

- Weekly community calls
- iiif-discuss@googlegroups.com
- iiif-announce@googlegroups.com
- Working Groups (manuscripts, museums, newspapers, etc.)
- ... all supported by the IIIF Consortium



IIIF: Two Core APIs

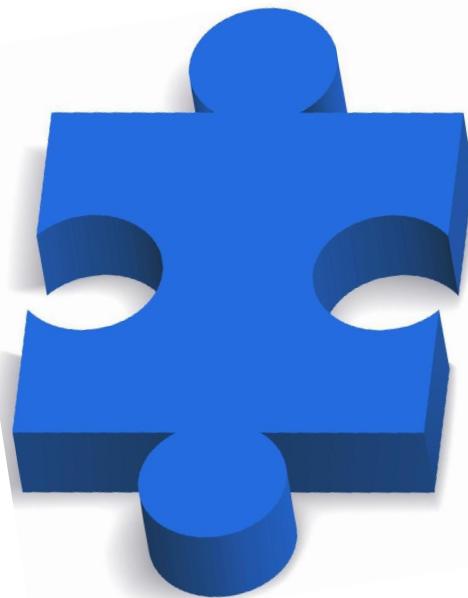


Image API

“get pixels” via a simple, RESTful, web service

Presentation API

Just enough metadata to drive a remote viewing experience



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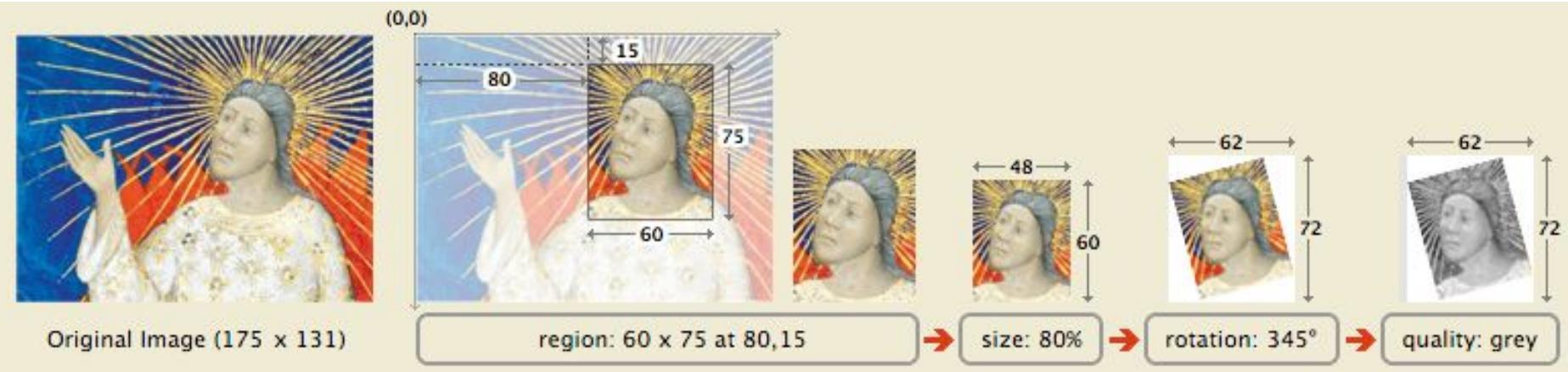


Image Delivery API

Order of Implementation

`http://www.example.org/image-service/abcd1234/80,15,60,75/pct:80/345/grey.jpg`

region size quality
rotation format



`http://iiif.io/api/image/2.0/`



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Image delivery demo

The screenshot shows a digital library interface for the Qatar Digital Library (QDL). The URL in the address bar is www.qdl.qa/en/archive/81055/vdc_100000000094.0x000093. The page displays a manuscript page from the book *Kitāb ṣuwar al-kawākib al-thābitah* by Shūfi, 'Abd al-Rahmān ibn 'Umar. The page contains dense Arabic text and several small illustrations. A yellow circle highlights a specific area on the left side of the page. Below the image, the title and author information are repeated. To the right of the image, there is a video player showing a play button, and below it is a link to "See all items in a list". The bottom of the screen features a navigation bar with a play button, a timestamp of 00:00 to 01:22, and a Creative Commons Attribution (CC BY) license logo.

www.qdl.qa/en/archive/81055/vdc_100000000094.0x000093

Explore The Archive Articles From Our Experts About العربية

Kitāb ṣuwar al-kawākib al-thābitah
شوفى، عبد الرحمن ابن عمر

Or 5323

Kitāb ṣuwar al-kawākib al-thābitah
شوفى، عبد الرحمن ابن عمر

See all items in a list

00:00 01:22 CC BY

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Image Information API

Information request URI has the form:

`http://example.org/{identifier}/info.json`

Returns a JSON-LD object describing the image properties and server capabilities

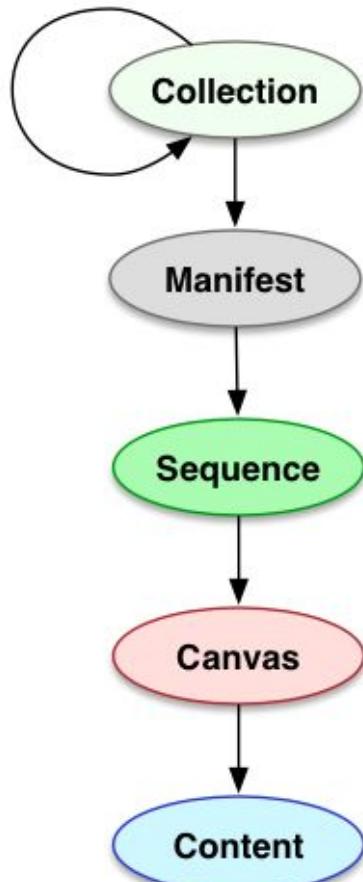


Image Information API

```
{  
  "@context": "http://iiif.io/api/image/2/context.json",  
  "@id": "http://images.qdl.qa/iiif/images/81055/vdc_1000  
  "protocol": "http://iiif.io/api/image",  
  "width": 3984,  
  "height": 5857,  
  "tiles": [  
    {  
      "width": 256,  
      "height": 256,  
      "scaleFactors": [  
        1,  
        2,  
        4,  
        8,  
        16,  
        32  
      ]  
    }  
  ],  
  "profile": [  
    "http://iiif.io/api/image/2/level1.json",  
    {  
      "formats": [  
        "jpg"  
      ],  
      "qualities": [  
        "native",  
        "color",  
        "gray"  
      ],  
      "supports": [  
        "regionByPct",  
        "sizeByForcedWh",  
        "sizeByWh",  
        "sizeAboveFull",  
        "rotationBy90s",  
        "mirroring",  
        "gray"  
      ]  
    }  
  ]  
}
```



Presentation API



- Structure
 - Collection, Item, Sequence, Parts
- Properties
 - Labels, description, license, attribution, links

<http://iiif.io/api/presentation/2.0/>



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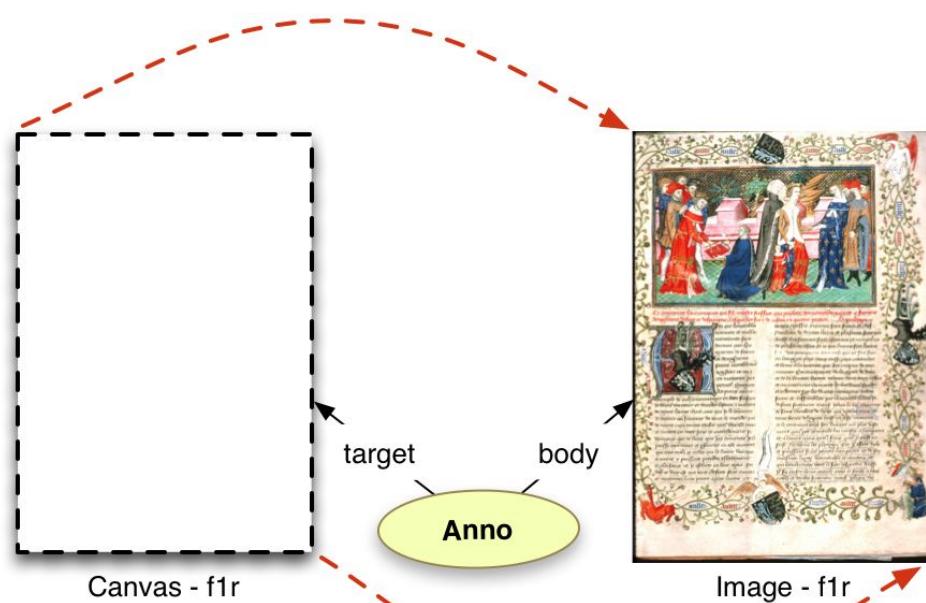
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Shared Canvas Data Model

- Developed out of the Digital Manuscript Interop Work
- Provides a “lingua franca” for modelling image & text-based digital resources
- Based on Linked Data: Web and annotation-friendly!



Based on Shared Canvas Data Model



"Real World" Manuscript
(Luttrell Psalter)

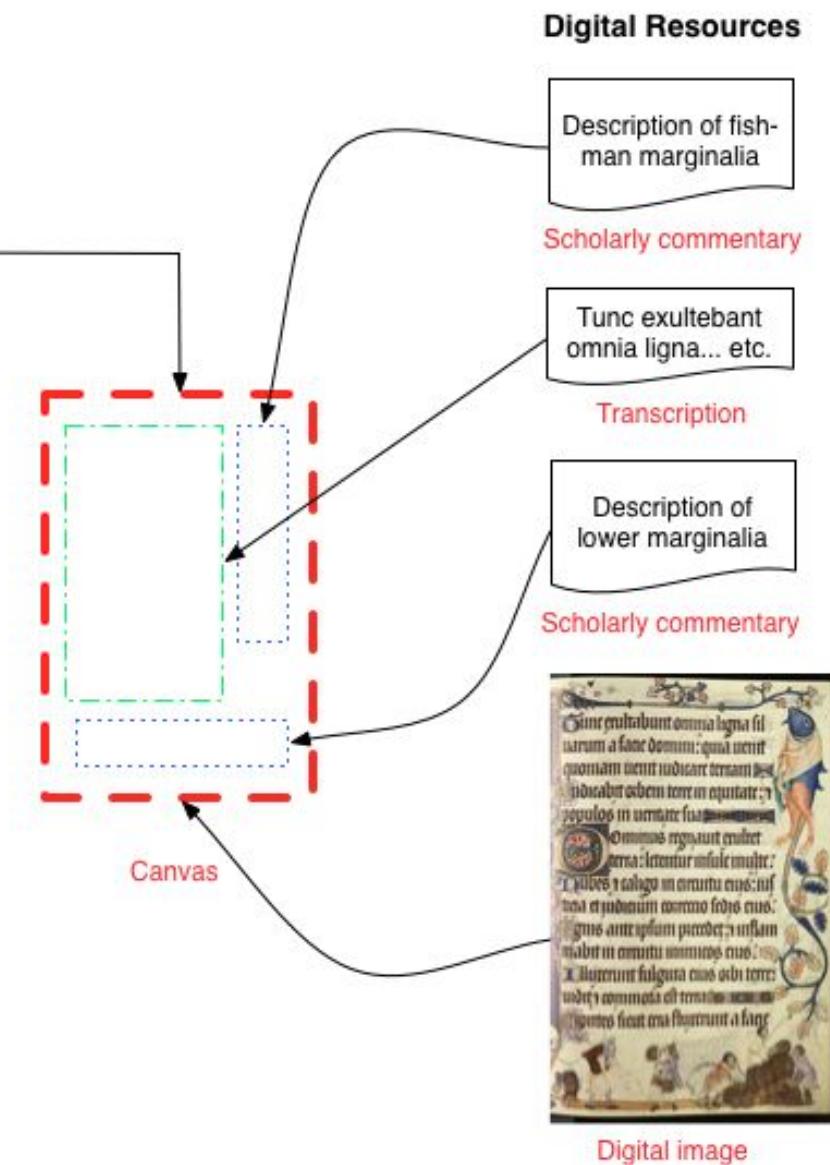




Image + Presentation = Object

Bookmark Options Switch Workspace

MS Richardson 7. Houghton Library, Harvard University. Heures d...

Hours of the Cross (ff. 21-35)

- Matins (ff. 21-23v)
- Prime (ff. 23-24v)
- Terce (ff. 25-26v)
 - f. 25: Flagellation
 - f. 25v.
 - f. 26.**
 - f. 26v.
- Sext (ff. 27-28v)
- None (ff. 29-30v)
- Vespers (ff. 31-32v)
- Compline (ff. 33-35)
- Passion (ff. 35v-36v)
- Hours of the Holy Spirit (ff. 37-46v)

f. 24v. f. 25: Flag... f. 25v. f. 26. f. 26v. f. 27



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Image + Presentation = Object

The screenshot illustrates a digital interface for viewing a medieval manuscript. The top navigation bar includes 'Bookmark', 'Options', and 'Switch Workspace' buttons, along with icons for image, grid, and help.

The main content area is divided into three sections:

- Left Panel (Red Box):** A sidebar menu titled "MS Richardson 7. Houghton Library, Harvard University. Heures d...". It lists the structure of the manuscript:
 - Hours of the Cross (ff. 21-35)
 - Matins (ff. 21-23v)
 - Prime (ff. 23-24v)
 - Terce (ff. 25-26v)
 - f. 25: Flagellation
 - **Title Label**
 - **Structure (TOC)**
 - **Sequence**
 - Sext (ff. 27-28v)
 - None (ff. 29-30v)
 - Vespers (ff. 31-32v)
 - Compline (ff. 33-35)
 - Passion (ff. 35v-36v)
 - Hours of the Holy Spirit (ff. 37-46v)
 - Central Image Area (Blue Box):** The main image shows a page from the manuscript with ornate initial letters and marginalia. A blue box overlays the image, containing the text "Image API" and "• Image Data". Navigation arrows and a zoom control are visible on the right side of the image.
 - Bottom Navigation Bar (Red Box):** A horizontal bar showing thumbnail images of manuscript pages: f. 24v., f. 25: Flag..., f. 25v., f. 26., f. 26v., and f. 27.



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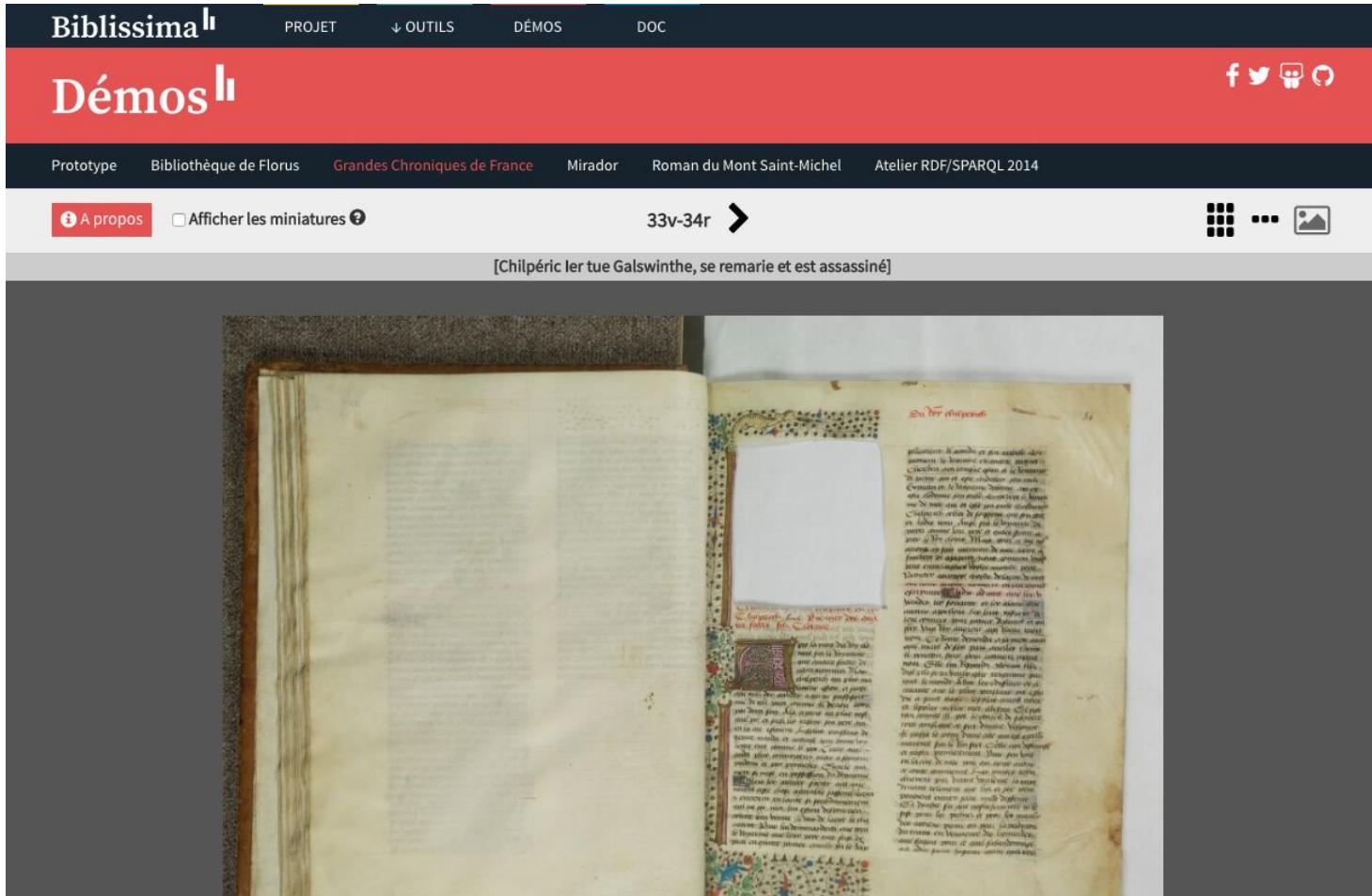
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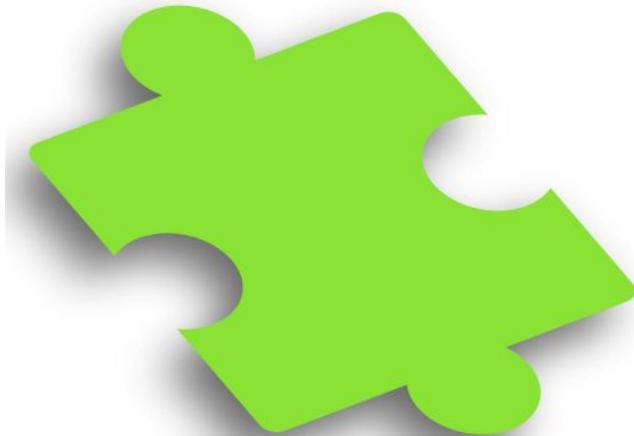
Demo: recombining manuscripts



<http://demos.biblissima-condorcet.fr/chateauroux/osd-demo/>

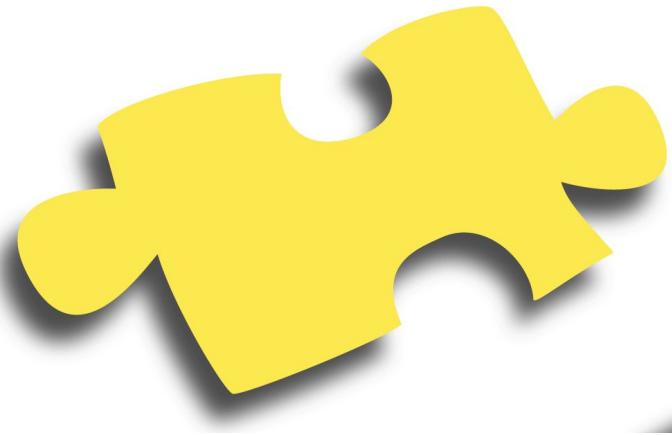


IIIF: Two More APIs in Beta



Search API

Search within an object,
such as the full text of a
book or newspaper



Authentication API

To support login,
and differential access
to resources.



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The Benefits

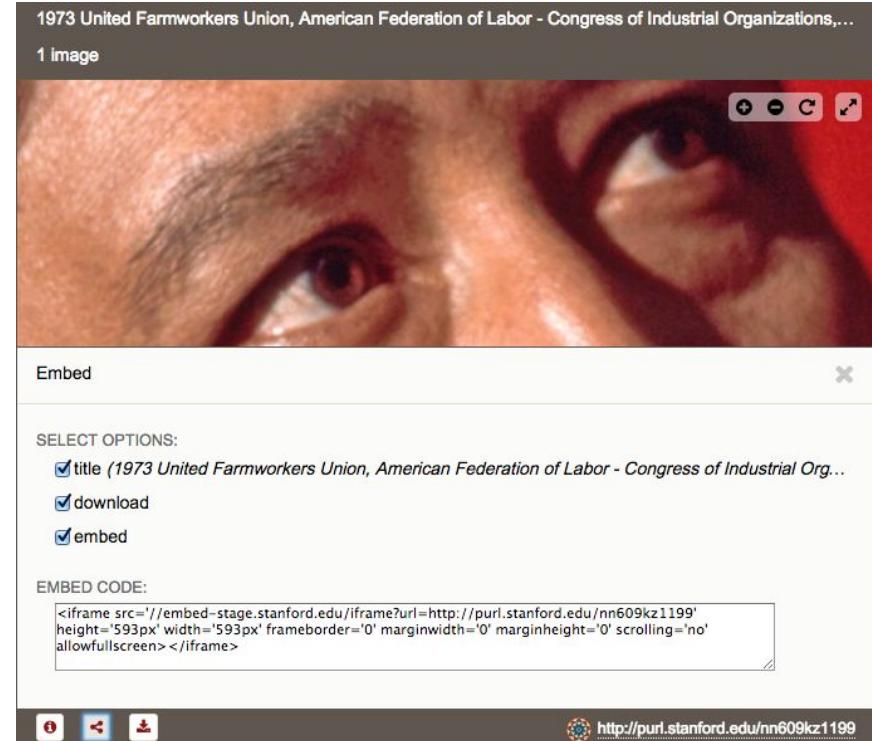
- Flexibility
- Reuse
- Remix
- Cite
- Annotate
- Software



The Benefits - Flexibility

Easily crop (e.g. blog illustrations)

Easily redesign entire sites



The Benefits - Reuse

Easily repurpose images

Folders Sign Up / Log In Search...

Search Explore For Libraries For Educators About

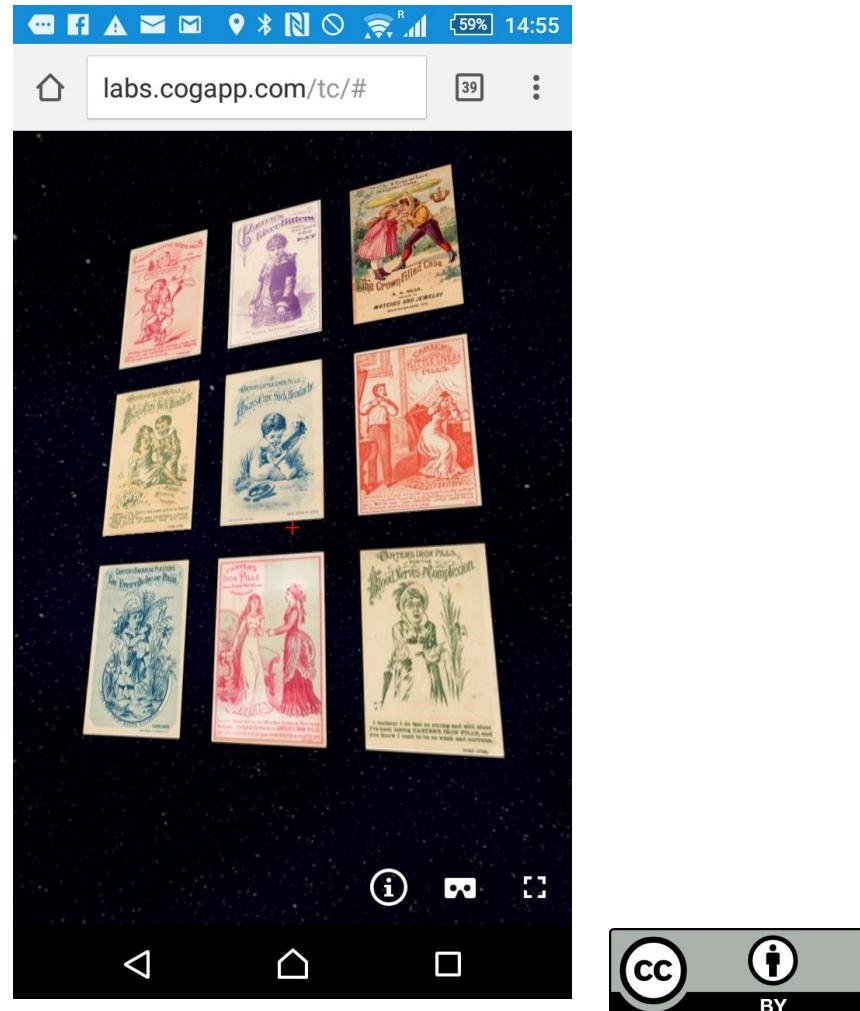
1. Mr. Jones buys a Swiss watch for \$20. 2. He misses his train as his watch is never correct. 3. Takes Swiss watch to...

1. Preparatifs de bataille!

1. Thyme. 2. Sage. 3. Marjoram.
Bugbee & Brownell, salad dressing, herbs, herb dressing, Providence, Rhode Island

\$1000 REWARD
For the proof of the existence
of a better liniment for
horses than the
WICHITA GARDEN HERB
LINIMENT.

\$1000 REWARD
For the proof of the existence
of a better liniment for
horses than the
WICHITA GARDEN HERB
LINIMENT.



The Benefits - Remix

Biblissima manuscripts

Dispersed documents

([Digital Mushaf](#))



The Benefits - Cite

E.g. [Embedr](#)

embedr

about how to embed contact search

Embed this selection

Copy the code below to your website or blog

```
<div id="embedr_img"></div>Detail of 'Children Teaching a Cat to Dance', Known as 'The Dancing Lesson' | Steen, Jan Havicksz. | <a href="http://www.europeana.eu/api/40418049/redirect?shownAt=http%3A%2Fwww.rijksmuseum.nl%2Fcollectie%2FSK-A-18049" target="_blank" style="color: inherit; text-decoration: none; font-weight: bold;">View on Europeana
```

Adjust the size of the image? x



CC BY



The Benefits - Annotate

E.g. [SimpleAnnotationServer](#)

 README.md

SimpleAnnotationServer

This is an Annotation Server which is compatible with [IIIF](#) and [Mirador](#). This Annotation Server includes a copy of Mirador so you can get started creating annotations straight away. The annotations are stored as linked data in an [Apache Jena](#) triple store.

Getting Started

Requires:

- Java 1.7
- [maven](#)

To begin working with Mirador and the Simple Annotation Server do the following:

- Download code

```
git clone https://github.com/glenrobson/SimpleAnnotationServer.git
```

- Move into the SimpleAnnotationServer directory.

```
cd SimpleAnnotationServer
```

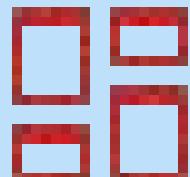
- Start the jetty http server



The Benefits - Software

Image Apps

Universal
Viewer



Mirador



Internet Archive
Book Reader



Image Clients

OpenSeadragon



OpenLayers



IIP Moo Viewer

Leaflet



FSI

Image Servers



IIP Image

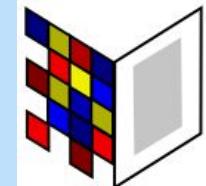
djatoka



FSI Server



CONTENTdm®



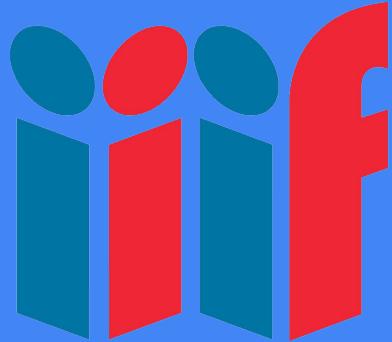
digilib

LuraTech

Some examples

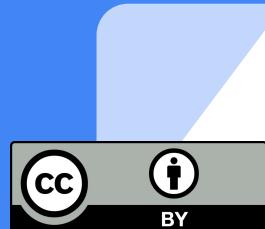
- DPLA
- Princeton
- Europeana
- Qatar Digital Library
- Cogapp





IIIF & the Digital Public Library of America

Mark A. Matienzo, Director of Technology
Digital Public Library of America / <http://dp.la/>
mark@dp.la / @anarchivist / @dpla



DPLA as cultural heritage aggregator

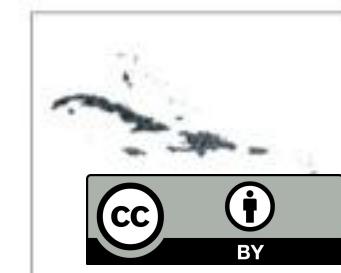
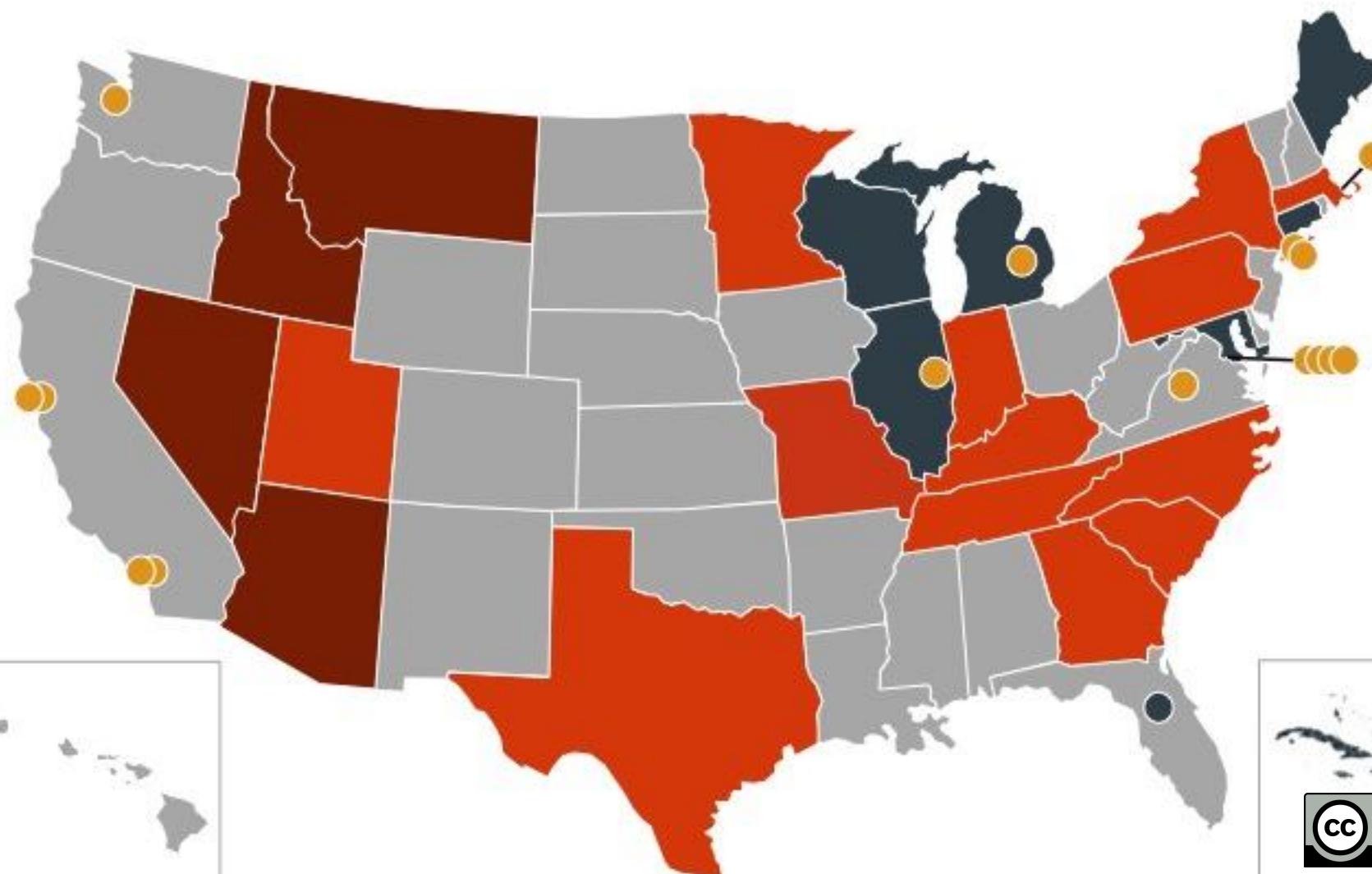
- 11.5 million+ items aggregated from US libraries, archives, and museums
- 28+ “Hubs” (primary partners)
- 2,000+ contributing institutions



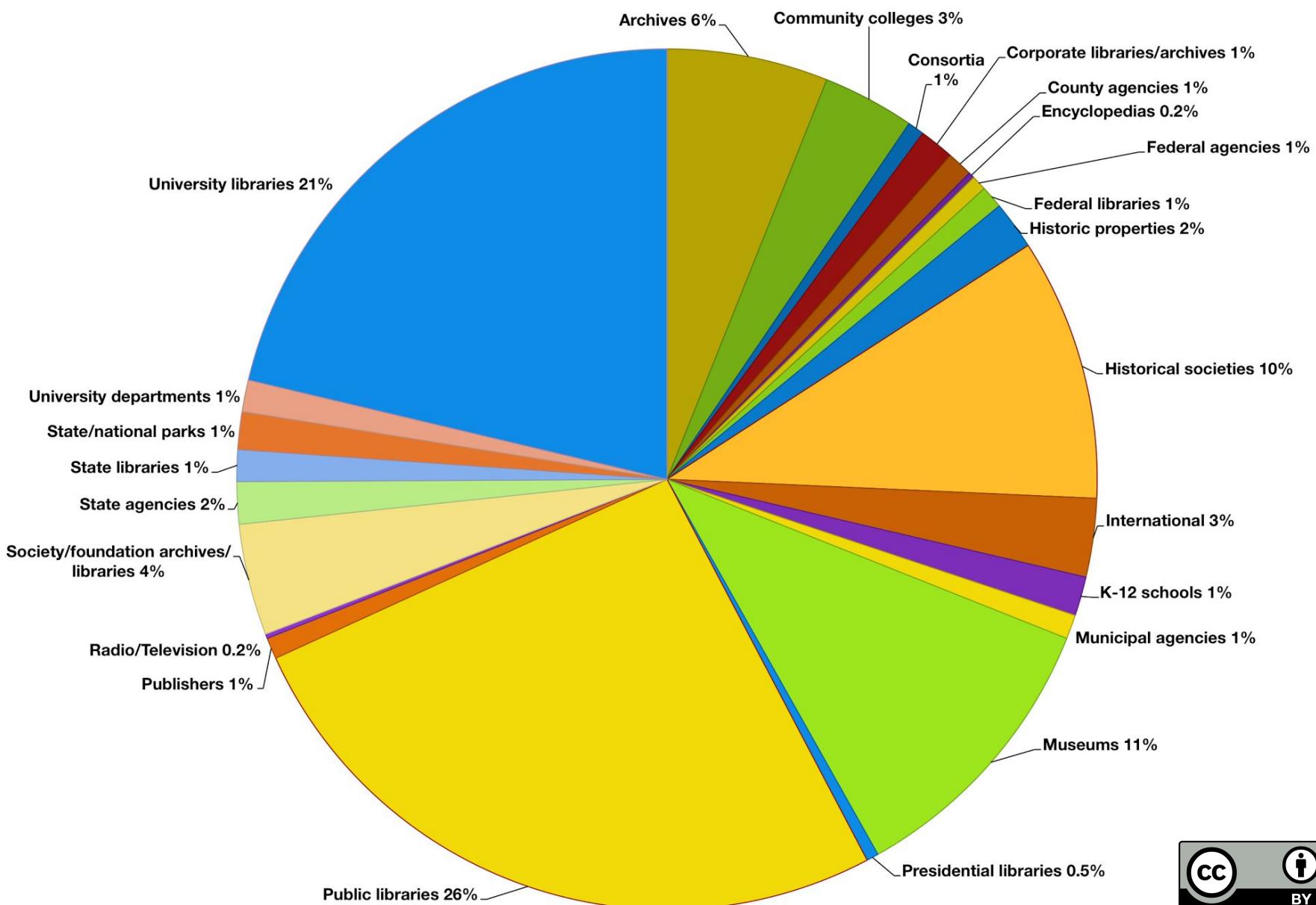


DPLA Hubs locations

- Service Hubs
- Service Hub partner states
- Content Hubs
- Hubs in active development



DPLA partner breakdown



DPLA: more than an aggregation

- Over 21 million hits over 6 months; 57% traffic via portal; 43% through API
- Support development of open, community sustaining work
- Facilitate re-use of collections, software, and standards
- Amplify our own efforts, as well as those of communities that are like-minded



Motivations for DPLA network adoption of IIIF

- Promotion and support for open standards
- Improving usability
- Lowering bar for image delivery and reuse both within and outside DPLA
- Supporting annotation on and across cultural heritage resources



Evaluating user experience of delivering images

- Unclear pathways to access objects
- Too many clicks to get to content
- Various image viewers lead to interface inconsistency across providers
- Not only true for portal users, but API users as well!



Impacts on developers using the DPLA API

This repository Search Pull requests Issues Gist

dpla / platform Unwatch 29

Code Issues 0 Pull requests 2 Wiki Pulse Graphs Settings

Expand 'object' to return more than just thumbnail? #1

Closed pj4533 opened this issue on Apr 13, 2013 · 7 comments

pj4533 commented on Apr 13, 2013

Any plans to return more than the thumbnail in an item's object field? I'd really like direct links to larger images.

Based on the ingestion code, it looks like that URL is pretty custom per-provider.

For example the Georgia urls are done by this script:

https://github.com/dpla/ingestion/blob/master/lib/akamod/georgia_identify_object.py#L40

In order to get actual images, I could do the same sort of thing in my client code, but then I couldn't just talk to the DPLA api, I have to have logic around each provider inside the DPLA.

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DPLA Hubs with IIIF implementations

- Production: image & presentation APIs
 - Harvard University Library
 - Digital Commonwealth/Boston Public Library
 - Internet Archive (beta)
- Production: image API only
 - California Digital Library (Calisphere beta)
- Under development
 - ARTstor
 - David Rumsey Map Collection



Implementation issues for DPLA

- Representation of IIIF resources in EDM/DPLA Metadata Application Profile
- Metadata about IIIF images not available from harvest sources
- UX consistency for IIIF/non-IIIF images
- Impact of IIIF on Hubs' use statistics; guidance on analytics
- Uncertainty about provision of IIIF services



Next steps for a DPLA pilot ...?

- Ensure IIIF resources are identifiable in metadata, either through harvesting or creating URIs from available identifier(s)
- Develop guidance for analyzing usage statistics
- Prototype, prototype, prototype!





PRINCETON UNIVERSITY
LIBRARY

iiif at princeton

esmé cowles • @escowles • dplafest • 2016-04-15

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



current

- member of the IIIF Consortium
- Jon Stroop is a IIIF editor, maintains Loris
- digital collections served with Loris
 - <http://pudl.princeton.edu/>

future: lots of data sources to integrate

- metadata
 - catalog (voyager)
 - finding aids
- images
 - existing collections
 - ongoing digitization

future: Hydra on the backend

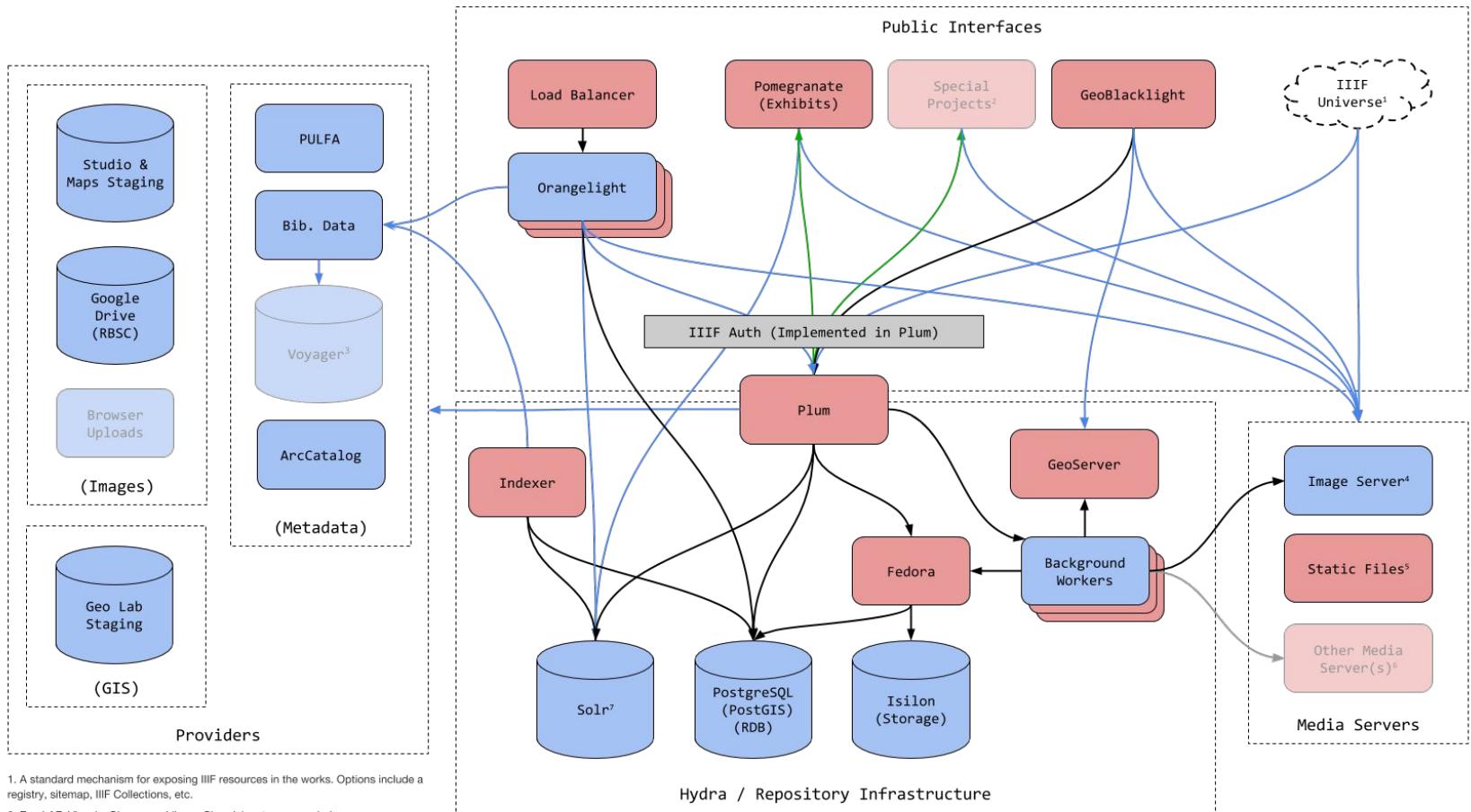
- building Plum to manage building objects
 - initial focus on books, other content types coming soon
- Hydra stack:
 - Fedora 4, Solr 5
 - HydraWorks, CurationConcerns

future: lots of clients for the same data

- catalog (blacklight)
- finding aids
- exhibits (spotlight)
- geodata (geo blacklight)
- broader IIIF universe

future: IIIF is our strategy for reusable content

- build manifests in Plum
- deliver images with Loris
- presentation api to drive viewer(s)
- index manifests to pull objects into exhibits



1. A standard mechanism for exposing IIIF resources in the works. Options include a registry, sitemap, IIIF Collections, etc.

2. E.g. LAE, Visuals, Cicognara, Library Chronicle, etc., as needed.

3. Read-only connection to Voyager does not allow changes.

4. CRUD via NFS mount, auth and cache expiration TBD.

5. Static web assets (e.g. Universal Viewer) that are updated manually and used by Plum, Pomegranate, etc.

6. E.g. A/V streaming, etc., as needed.

7. Solr server shared between Orangelight, Plum and Pomegranate, each with its own index.

Loris: <https://github.com/pulibrary/loris>

Plum: <https://github.com/pulibrary/plum/>

PUDL: <http://pudl.princeton.edu/>

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





europeana

Europeana & IIIF

What we are planning and why?

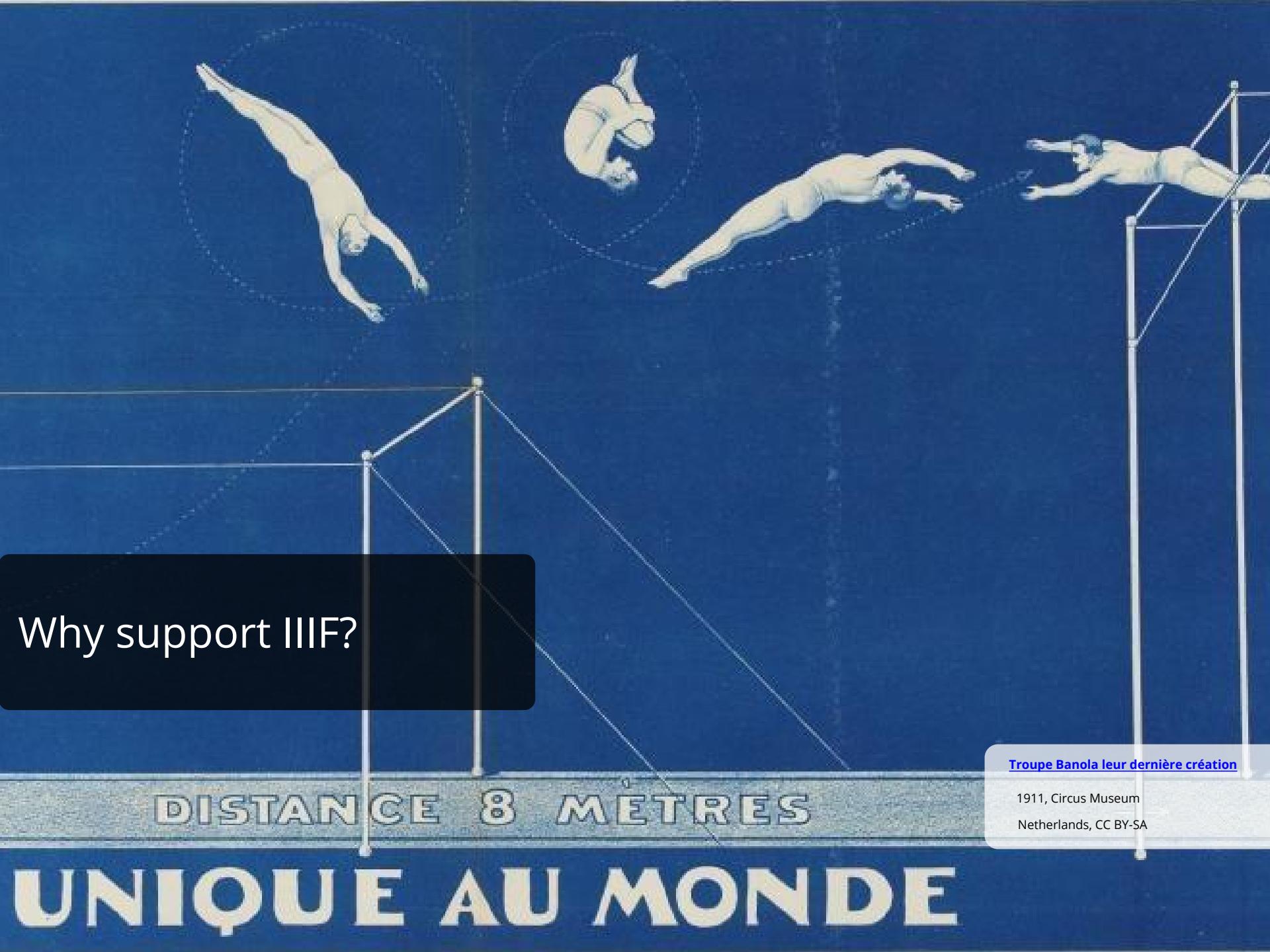
David Haskiya (and Antoine Isaac) | DPLAfest 2016

[Danse de trois faunes et trois bacchantes](#), Hieronymus Hopfer,
Bibliothèque municipale de Lyon,
Public Domain



Outline

- Why do we want to support IIIF?
- How will we support IIIF?
- When will we support IIIF?



[Troupe Banola leur dernière création](#)

1911, Circus Museum
Netherlands, CC BY-SA

Why support IIIF?

DISTANCE 8 MÈTRES

UNIQUE AU MONDE

Why support IIIF?

Our mission: “*We transform the world with culture! We want to build on Europe’s rich heritage and make it easier for people to use, whether for work, for learning or just for fun.*”

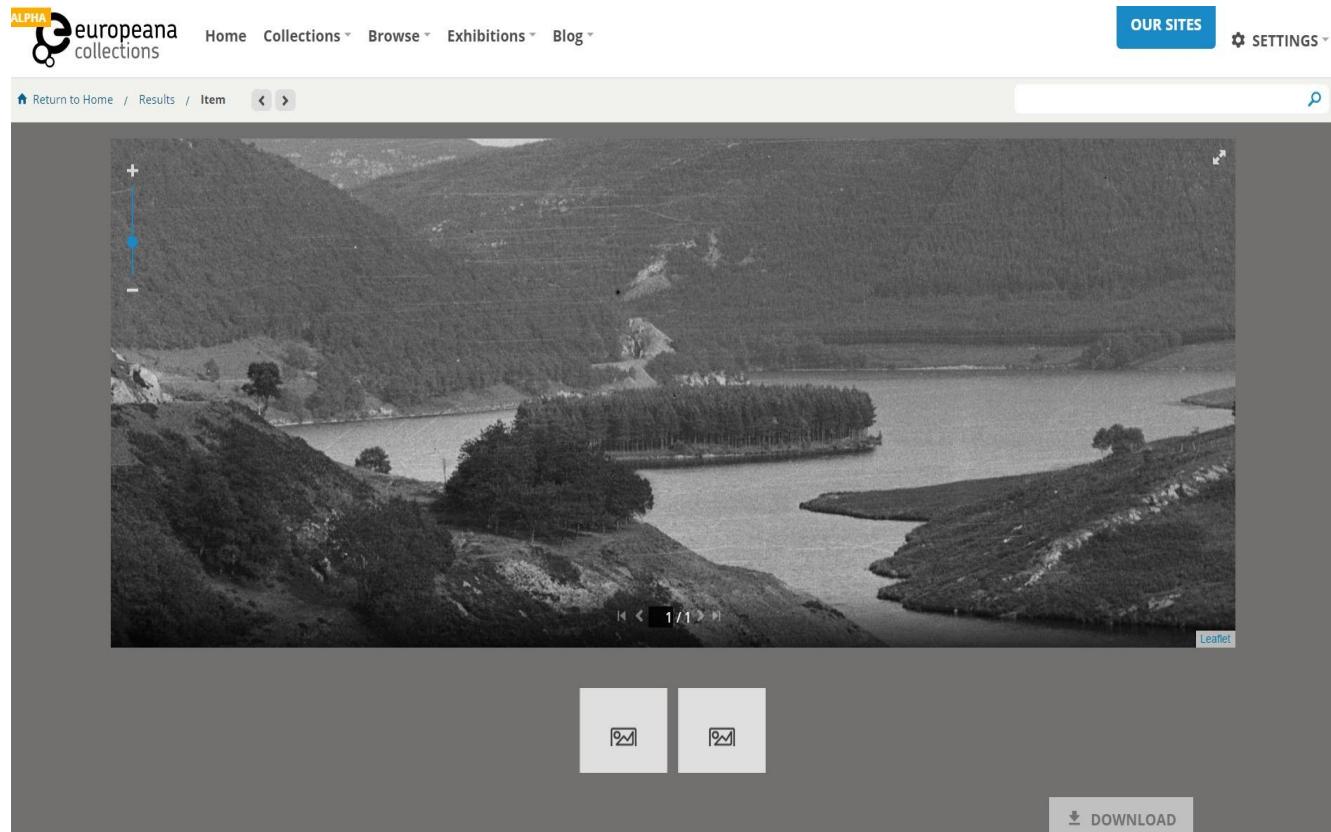
Supporting IIIF will help in reaching all these goals. We may even help transform our little GLAM world!

What our users say

- Immediate access to high-res imagery and multi-page documents is something all users want
- Some users have specific needs
 - Designers looking for visual inspiration
 - Art historians who want to see the shape of the brush strokes and other fine details
- Historically Europeana has been very metadata centric. New version of our portal will take steps towards rich media.

Some providers are moving to IIIF

We want to
encourage this!



The screenshot shows a Europeana collections page for a photograph titled "[View of Elan Valley] | Abery, P. B. (Percy Benzie) 1877-1948". The image is a black and white landscape of a valley with hills and a reservoir. Below the image, there is descriptive text and classification information. On the right side, there are links for "FIND OUT MORE", "CAN I USE IT?", and "SHARE". At the bottom right, there is a "DOWNLOAD" button.

Title

[View of Elan Valley] | Abery, P. B. (Percy Benzie) 1877-1948

Description

Title assigned by cataloguer., PBA44/3., (Percy Benzie), 1877?-1948.

Classifications

Type: still image, graphic (MARC genre terms (Washington, DC: Library of Congress)) [marcgt], Glass negatives. (Thesaurus for graphic materials: TGM II, Genre and physical characteristic terms (Washington, DC: Library of Congress, Cataloging Distribution Service)) [gmgrpc], monographic Subject: Rivers [lctgm], Wales [lctgm], Elan Valley [lctgm], Hills [lctgm], Reservoirs [lctgm], Elan Valley (Wales) (Library of Congress subject headings (Washington, DC: LC, Cataloging Distribution Service)) [lcsh]

FIND OUT MORE

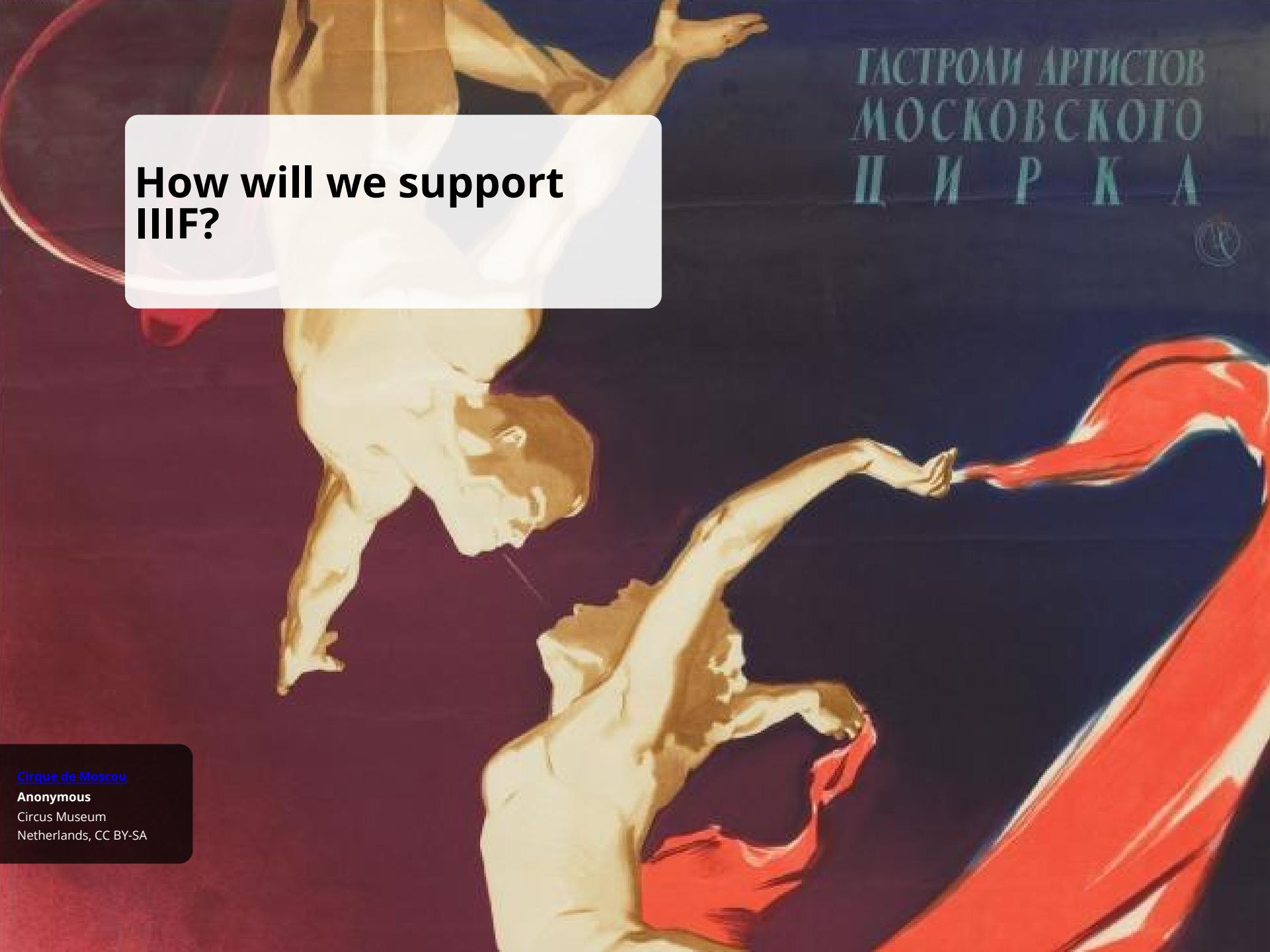
Europeana is displaying this item via the National Library Of Wales [↗](#). Visit their site for more information.

CAN I USE IT?

Yes with restrictions
 CC BY-NC-SA

SHARE





ГАСТРОЛИ АРТИСТОВ
МОСКОВСКОГО
ЦИРКА

How will we support
IIIF?

[Cirque de Moscou](#)

Anonymous

Circus Museum

Netherlands, CC BY-SA

Display

- Beta version of our newest Collections portal comes with a proof of concept [IIIF-viewer](#)
- We have 3 data partners who have given leave for us to display their IIIF-compatible collections

Digital Bodleian Library, University of Heidelberg, and National Library of Wales

- Implementation is deliberately basic. UX research needed before we go ambitious



Link: http://www.europeana.eu/portal/record/9200175/BibliographicResource_3000004703073.html

Shared image service

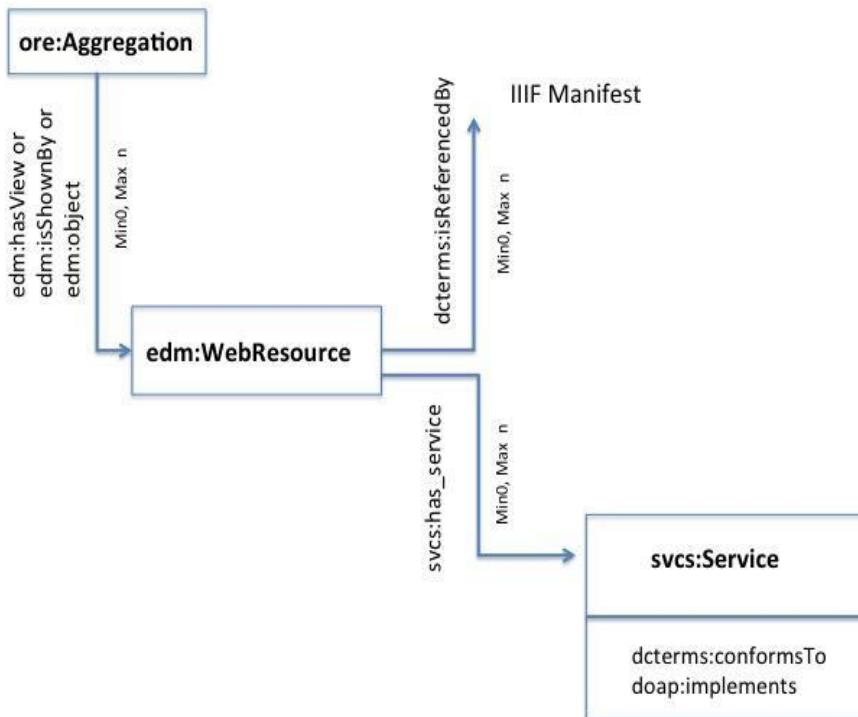
- We have 3500 data partners. Should they all individually develop an IIIF-server?
 - Some can and will. But for most it's beyond their technical or financial capabilities.
 - So we develop a shared image service, IIIF compatible, for use by Europeana data partners who want to support IIIF but don't have the means
 - A test version is being rolled out now

http://iiif.europeana.eu/AZ_1927_01_04_0001

http://iiif.europeana.eu/AZ_1927_01_04_0001/info.json

Data model

We are updating our Europeana Data Model mapping guidelines to include instructions on how to provide IIIF images and manifests



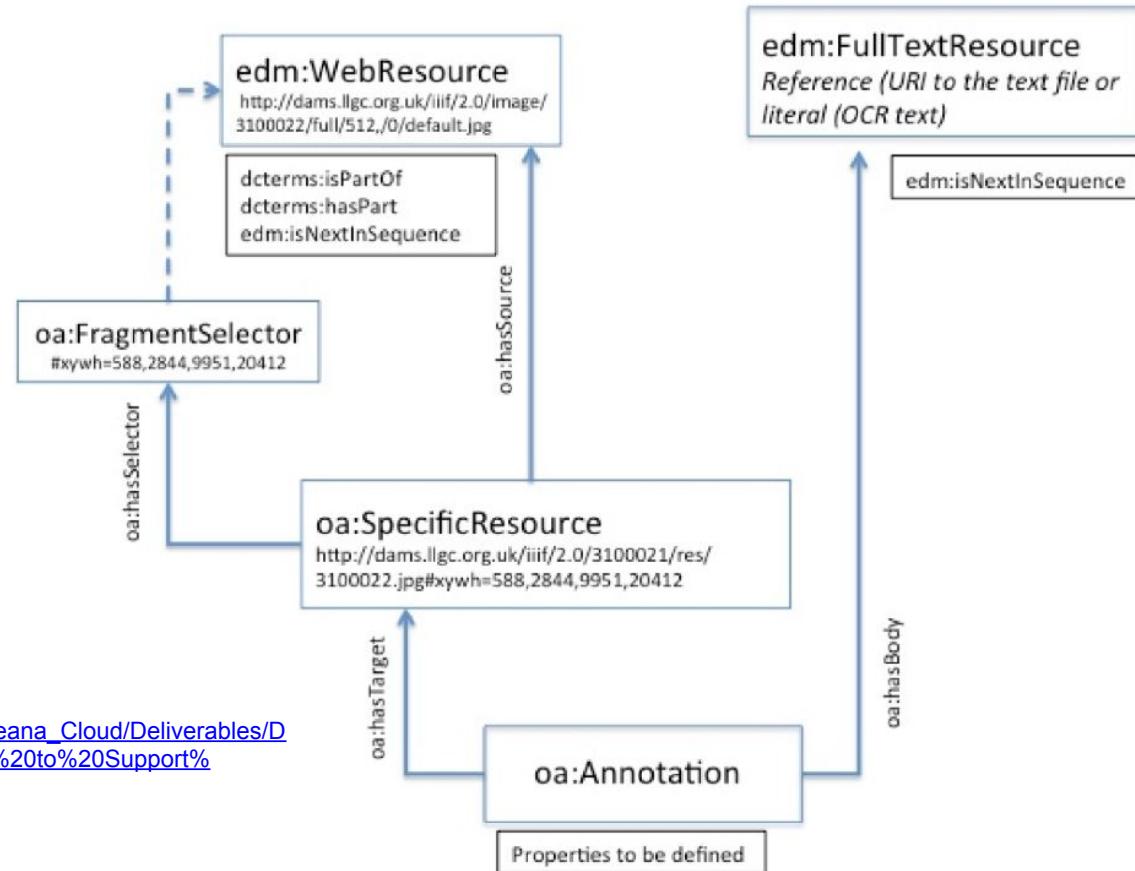
```
<ore:Aggregation rdf:about="[...]">
[...]
<edm:isShownBy rdf:resource="http://dams.llgc.org.uk/iiif/image/2.0/1294670/full/512,
/0/default.jpg">
[...]
</ore:Aggregation>
<edm:WebResource rdf:about="http://dams.llgc.org.uk/iiif/image/2.0/1294670/full/512,
/0/default.jpg">
<svcs:has_service rdf:resource="http://dams.llgc.org.uk/iiif/image/1294670"/>
<dcterms:isReferencedBy rdf:resource="http://dams.llgc.org.uk/iiif/2.
0/1294670/manifest.json"/>
</edm:WebResource>
<svcs:Service rdf:about="http://dams.llgc.org.uk/iiif/image/2.0/1294670">
<dcterms:conformsTo rdf:resource="http://iiif.io/api/image"/>
<doap:implements rdf:resource="http://iiif.io/api/image/2/level1.json">
</svcs:Service>
```

Community

- Efforts in coordination with the IIIF community
- Europeana plans to become a member of the IIIF consortium
- We will promote IIIF adoption in our network
- We participate to the elaboration of the specs, current and coming
 - e.g., participation on extending IIIF for audio and AV content

Newspapers, full text

Fitting full-text content within
IIIF manifests and EDM (and
Web Annotations)



http://pro.europeana.eu/files/Europeana_Professional/Projects/Project_list/Europeana_Cloud/Deliverables/D_4.4%20Recommendations%20For%20Enhancing%20EDM%20to%20Support%20Research%20Oriented%20Content.pdf

Distribution

- IIIF images and manifests provided to Europeana directly or created by the shared IIIF image service will be retrievable via the Europeana REST API
- The REST API search call will be extended to allow for filtering to only items with IIIF resources
- As our REST-API already supports queries on image resolution combined with structured rights Kennisland has already developed a IIIF compatible service, [Embedr.eu](#), with high-res, embeddable and reusable images.

Roadmap

- **DONE** Europeana Collections Beta launches with IIIF-viewer (3 pilot datasets)
- **DONE** EDM guidelines updated to include rules for how to provide IIIF images and manifests
- **Late Q2 2016**, Shared IIIF-service for testing, REST-API allows retrieval of IIIF resources
- **Q3 2016**, Shared IIIF-service in production



[**Sainte Cécile chantant les louanges de Dieu.**](#) Etienne Picart, Bibliothèque municipale de Lyon, Public Domain

Three takeaways

- Why does Europeana want to support IIIF?
 - **Because it helps us fulfill our mission and it helps our users**
- How will Europeana support IIIF?
 - **By display, by sharing services and IIIF-resources, by joining and supporting the community**
- When will Europeana support IIIF?
 - **Started, and gradually more and more throughout 2016**



15 April 2016

[The Music Lesson](#), Louis Moritz,
1808, Rijksmuseum , Public Domain

Demo: Qatar Digital Library

The screenshot shows the homepage of the Qatar Digital Library. At the top, there is a black navigation bar with a logo featuring a stylized dome and geometric shapes on the left, and menu items "Explore The Archive", "Articles From Our Experts", and "About" in white. To the right of the menu are language links ("العربية") and a search icon. The main title "Qatar Digital Library is free to use and reuse." is displayed in large red text. Below the title, a subtitle reads: "This growing archive covers modern history and culture of the Gulf and wider region, available online for the first time." Two red buttons at the bottom of this section are labeled "EXPLORE THE ARCHIVE" and "ARTICLES FROM OUR EXPERTS". The main content area features a large image of a historical manuscript. On the left side of the manuscript image, a white box contains the text "THIS MONTH'S HIGHLIGHTS" and "FLAG FLOWN BY THE SHEIKH OF QATAR IN 1936". On the right side, another white box contains the text "THIS MONTH'S HIGHLIGHTS" and "EARLY MUSLIMS IN CAIRO". A question mark icon is located in the bottom left corner of the manuscript image.



Multiple viewers

labs.cogapp.com/iiif

[com/iiif](https://labs.cogapp.com/iiif)

IIIF viewer demo Mirador Universal Viewer Internet Archive Book Reader View original item on qdl.qa

Ajouter aux favoris Changer la disposition

Correspondence and other Papers concerning the Duke of Argyll's Attack on the Highlands, 1746

Letter from Lord Elcho, 23 St James's Place, 1746

Letter from Lord Elcho to Lewis Pelly, 1746

Letter from Lewis Pelly, Belgrave Mansions, 1746

Letter from the Duke of Argyll, Argyll Lodge, 1746

Letter from Lewis Pelly, Belgrave Mansions, 1746

Letter from Lord Salisbury, Foreign Office to the Duke of Argyll, 1746

Letter from Lord Salisbury, 20 Arlington Street, 1746

Letter from Lord Elcho, 23 St James's Place, 1746

Letter from Lord Elcho, 23 St James's Place, 1746

Press cuttings from The Times

The image shows a digital library interface for historical documents. The main content area displays a handwritten letter from the Duke of Argyll to Sir Lewis, dated 'last night say' in 1746. The letter is written in cursive ink on aged paper. Below the main viewer, there is a grid of smaller thumbnails representing other documents in the collection. The interface includes a sidebar with a list of document titles, a top navigation bar with links to different viewers, and various interaction buttons like 'Ajouter aux favoris' and 'Changer la disposition'.



Multilingual manifests

```
{ "@context": "http://iiif.io/api/presentation/2/context.json",  
  "@id": "http://qnlportal-staging.cogapp.com/en/iiif/81055/vdc_100000000193.0x0",  
  "@type": "sc:Manifest",  
  "label": "'File 35/85 I A 8. Muscat: French Flag Question'",  
  "within": "http://qnlportal-staging.cogapp.com/en/iiif/collection",  
  "metadata": [  
    { "label": "Qatar Digital Library Archive",  
      "value": "http://qnlportal-staging.cogapp.com/en/archive/81055/vdc_1000" },  
    { "label": "Original held at",  
      "value": "British Library: India Office Records and Private Papers" },  
    { "label": "Type",  
      "value": "Archival file" },  
    { "label": "Archive reference",  
      "value": "IOR/R/15/1/403" },  
    { "label": "Original language",  
      "value": "English, Arabic and French in Latin and Arabic script" },  
    { "label": "Date",  
      "value": "9 Dec 1892-11 Jan 1905" },  
    { "label": "Arrangement",  
      "value": "The papers are arranged chronologically from the front to the back." },  
    { "label": "Physical characteristics",  
      "value": "Manuscript on paper, 1 volume (1 folder), 15 x 25 cm, 100 pages, handwritten in English, Arabic and French in Latin and Arabic script. Includes a small French flag." } ] }
```

```
{ "@context": "http://iiif.io/api/presentation/2/context.json",  
  "@id": "http://qnlportal-staging.cogapp.com/iiif/81055/vdc_100000000193.0x0",  
  "@type": "sc:Manifest",  
  "label": "'File 35/85 I A 8. Muscat: French Flag Question'",  
  "within": "http://qnlportal-staging.cogapp.com/iiif/collection",  
  "metadata": [  
    { "label": "أرشيف مكتبة قطر الرقمية",  
      "value": "http://qnlportal-staging.cogapp.com/archive/81055/vdc_1000" },  
    { "label": "المكتبة البريطانية: أوراق خاصة وسجلات من مكتب الهند",  
      "value": "http://qnlportal-staging.cogapp.com/archives/81055/vdc_1000" },  
    { "label": "نوع الوثيقة",  
      "value": "ملف أرشيفي" },  
    { "label": "رقم الاستدعاء",  
      "value": "IOR/R/15/1/403" },  
    { "label": "اللغة الأصلية",  
      "value": "الإنجليزية، العربية و الفرنسية اللاتينية و العربية بالأحرف" },  
    { "label": "التاريخ",  
      "value": "٩ ديسمبر ١٨٩٢ - ١١ يناير ١٩٠٥" },  
    { "label": "الترتيب",  
      "value": "من بداية الملف إلى نهايته. يوجد فهرس في أول الملف" },  
    { "label": "الخصائص المعادية",  
      "value": "Manuscript on paper, 1 volume (1 folder), 15 x 25 cm, 100 pages, handwritten in English, Arabic and French in Latin and Arabic script. Includes a small French flag." } ] }
```



Drag and drop

[Kuwait] to Hajee [Haji] Ahmed, Residency Arabic Mirza, British Library: India Office Records and Private Papers, MSS Eur F126/56, ff 11-12, in Qatar Digital Library <http://qnlportal-dev.cogapp.com/en/archive/81055/vdc_100023472648.0x000007> [accessed 30 November 2015]

Link to this record
http://www.qdl.qa/en/archive/81055/vdc_100023472648.0x000007

IIIF details
This record has a IIIF manifest available as follows. If you have a compatible viewer you can drag the icon to load it.

 http://qnlportal-dev.cogapp.com/en/iiif/81055/vdc_100000001524.0x0003c3/manifest

[More options for embedding images](#)

COPYRIGHT: HOW TO USE THIS CONTENT

Reference	MSS Eur F126/56, ff 11-12
Title	Letter from Lieutenant-Colonel Lewis Pelly, HBM's Political Resident Persian Gulf, at Kuwait [Kuwait] to Hajee [Haji] Ahmed, Residency Arabic Mirza
Pages	11r:12v
Author	East India Company, the Board of Control, the India Office, or other British Government Department
Usage terms	Open Government Licence

Drop to Load Manifest
http://qnlportal-dev.cogapp.com/en/iiif/81055/vdc_100000001524.0x0003c3/manifest



IIIF for gaming?

labs.cogapp.com/transcriptinator



The Transcriptinator

SCORE: 2

1937) from Shaikh Rashid bin Humaid, Ruler of Ajman, to the

1-1937)	from	Shaikh	Reshid	bin
1-1937)	from	Shaikh	R@shid	bin
Humaid,	Ruler	of	Ajman,	to
Humaid,	Ruler	of	Ajman,	the

NEXT

IIIF for VR?

labs.cogapp.com/tc



Q&A Session



International
Image
Interoperability
Framework

<http://iiif.io/>

