



International Image Interoperability Framework

Japan - October 2017

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Stanford University

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IIIF

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Stanford University

Jack Reed
Stanford University

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Yale University





Where did it come from?

E/PC/T/C.II/~~PRO/PV/~~8

UNITED NATIONS
ECONOMIC AND SOCIAL COUNCIL

PREPARATORY COMMITTEE

of the

INTERNATIONAL CONFERENCE ON TRADE AND EMPLOYMENT

Verbatim Report

of the

FIFTH MEETING

of

PROCEDURES SUB-COMMITTEE

of

COMMITTEE II

held at

Church House, Westminster, S.W.1.

on

Monday, 4th November, 1946

THE CHAIRMAN: I have been asked to make this announcement: In case delegates have not seen a notice which appeared in the Journal on Thursday, performances of the films "Henry V" and "Brief Encounter" are being given this afternoon and on Wednesday afternoon by the courtesy of the J.R. Rank Organization Limited for members of Delegations and their staffs. Tickets can be obtained from Miss Cunynghame-Robertson, Room 511.

Now, I think that we were still discussing Article 8, paragraph 2, when we finished our last meeting, and I think we had reached the stage where it had been agreed that we could work on the existing draft of paragraph 2 of Article 8 in the United States Charter, and that it could be accepted subject to the deletion of reference to the dates there and the insertion of a phrase something to the following effect: "Elimination of any preference in the ordinary import customs duty which does not exceed a preference in force in any Member country on a date to be agreed between participating countries" - or words to that effect. I think it was suggested that the precise wording should be left for formal approval of the Committee after our newly-appointed Rapporteur had had an opportunity to examine the draft.

MR ALAMILLA (Cuba): It was arranged that both Mr Hawkins and myself would try, in the absence of the Rapporteur, to reach agreement on the wording,

f. 190 V | [zoom view](#)f. 191 R | [zoom view](#)

f. 190 V | f. 191 R

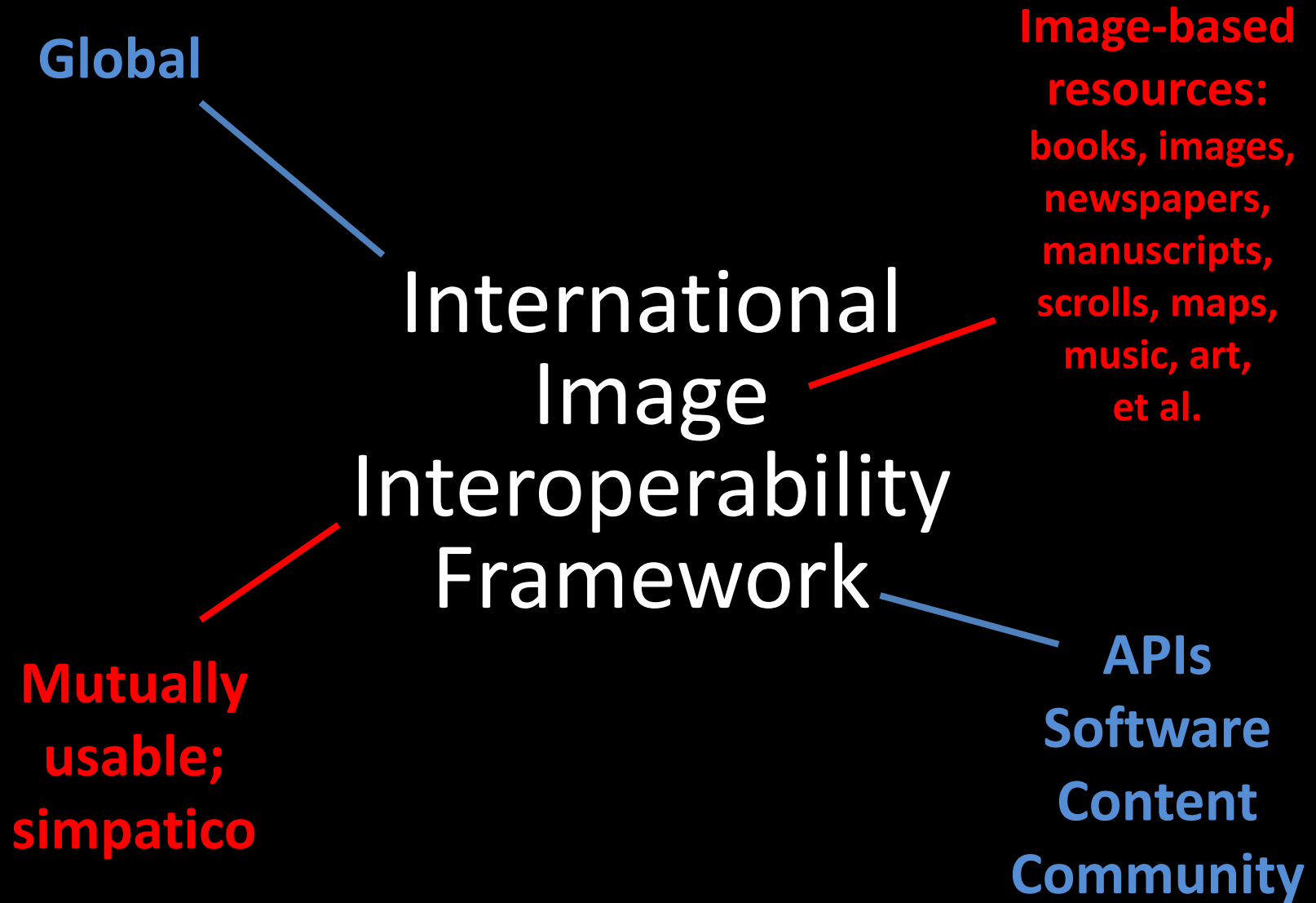
Animation: ☐ On ☒ OffGo to ☐ Verso ☐ Recto ☒ Page

Note:

acutis unguibz frequent parere non posse.
vidant. n. minus se mouētibz catulis.



Al aīal qđ dī autalops. acerrimū



Images are fundamental information carriers for cultural heritage



...dy was a big happy Me
overanxious to please.
XXXXXXXXXXXXXX sev
another wild day began.
biled into that and took
dy did the explaining--
He stank. I found out w
truck. Freddy always ha
about things. He always
go!" And he went. He



But image delivery is...

...too hard

...too slow

...too idiosyncratic

...too disjointed

...too ugly

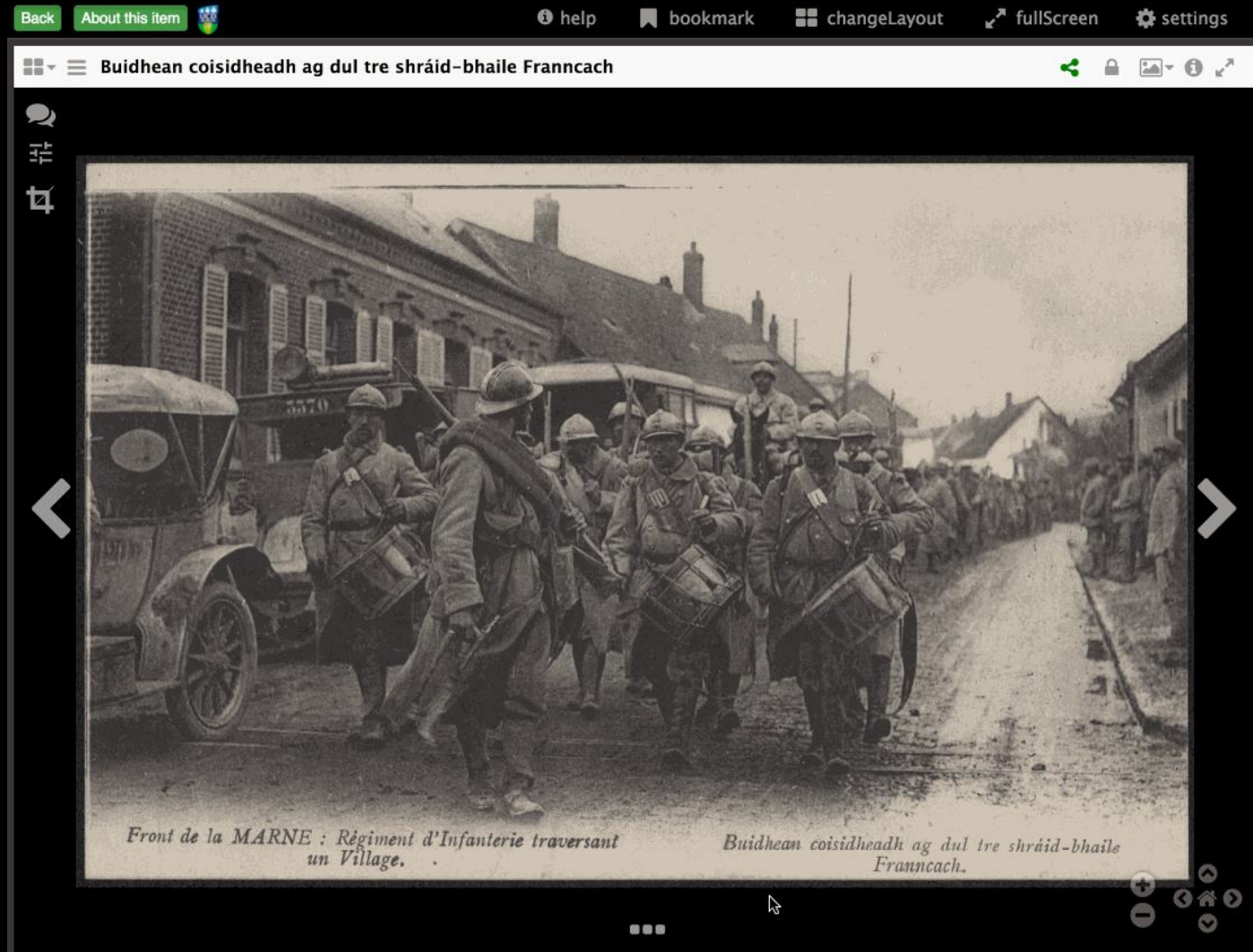
...and we all suffer because of it.

What **if**?

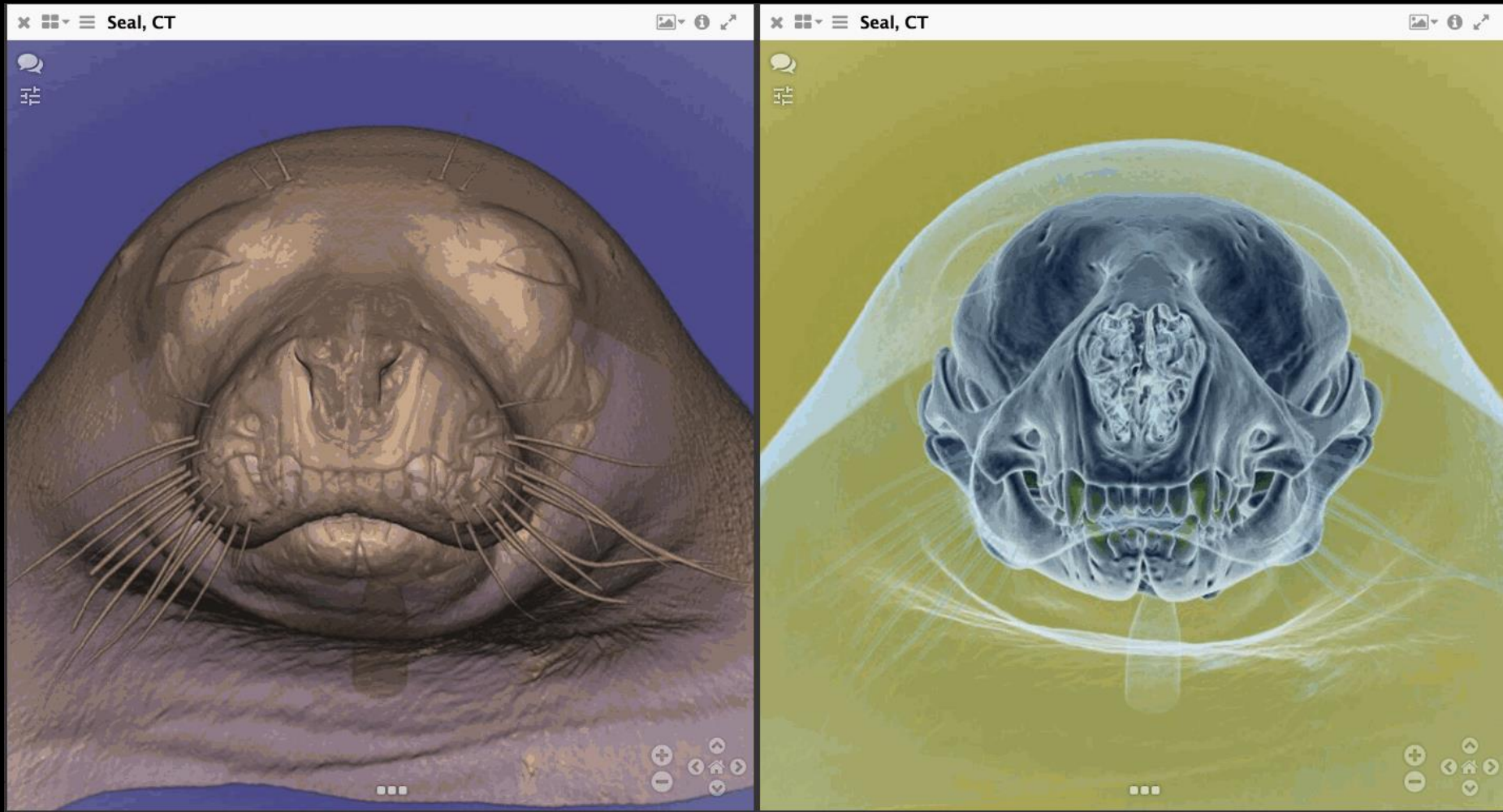
Deep zoom with large images



Cite and share (even regions of interest)



Compare images



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

<https://wellcomelibrary.org/item/b20433141> | <https://wellcomelibrary.org/item/b2043313x>

Across sites

Historical pastime or a new game of the... | Digital.Bodleian Mirador

https://digital.bodleian.ox.ac.uk/inquire/Discover/Search/#?p=c+0,t+,rsrs+0,rsps+10,fa+,so+ox%3Asort%5Eas...

DIGITAL BODLEIAN

Back Historical pastime or a new game of the... 1



METADATA

ID: 32bb9aa4-43ce-4bf7-b0fb-c9452ca8e40c

Title: Historical pastime or a new game of the history of England from the Conquest to the Accession of George the Third

Creator: Harris, J. [author] | Wallis, J. [author]

Format/extent: single sheet, 556 x 493 mm

Date: 1803-12-01

Language: English

Alternative title: New game of the history of England from the Conquest to the Accession of George the Third | Hastings | W.I. 1066 | Briton | Norman | Dooms-day book | New Forest | Holy Land | W.I. 1087 | Robert D. of Normandy | Royal Forest | Death of Wm. | H.I. 1100 | Henry seizing his brother's treasures | Anselm | Will | S. 1135 | War | Matilda | H.I. 1154 | Becket assassinated by four barons

Collection: Ephemeria

Description: Game of 1803 entitled Historical pastime or a new game of the history of England from the Conquest to the Accession of George the Third | has 158 circles, each depicting an aspect or event of history. The first twenty are indexed, as examples

Source: bodj001-aay-0001-0

Rights: http://creativecommons.org/licenses/by-nc-sa/3.0/

Permalink: https://digital.bodleian.ox.ac.uk/inquire/p/43ce-4bf7-b0fb-c9452ca8e40c

PRIVATE NOTES

TAGS

Bodleian Libraries | University of Oxford | Powered by Armadillo Systems | About | Privacy | Accessibility | Terms & Conditions | Shelfmark Index

Shakespeare, William in Search | Falstaff at Herne's Oak, from

Secure | https://searchworks.stanford.edu/view/zj784pt2430

Stanford LIBRARIES

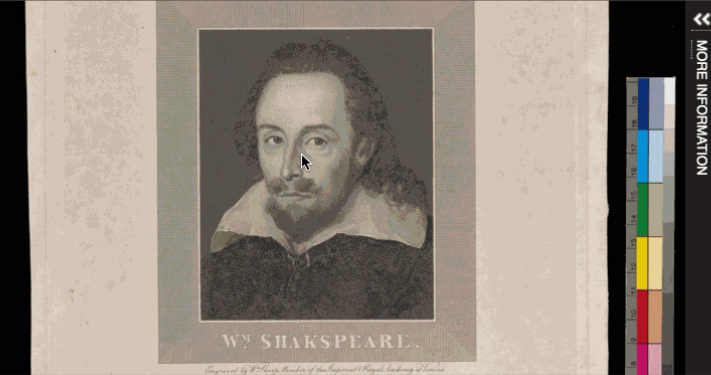
Login My Account Feedback

SearchWorks catalog:

All fields books & media

Menu

Shakespeare, William



WY SHAKSPEARE.

TYPE OF RESOURCE

Shakespeare-related resources from Oxford, Stanford & Yale

<https://digital.bodleian.ox.ac.uk/inquire/p/32bb9aa4-43ce-4bf7-b0fb-c9452ca8e40c>

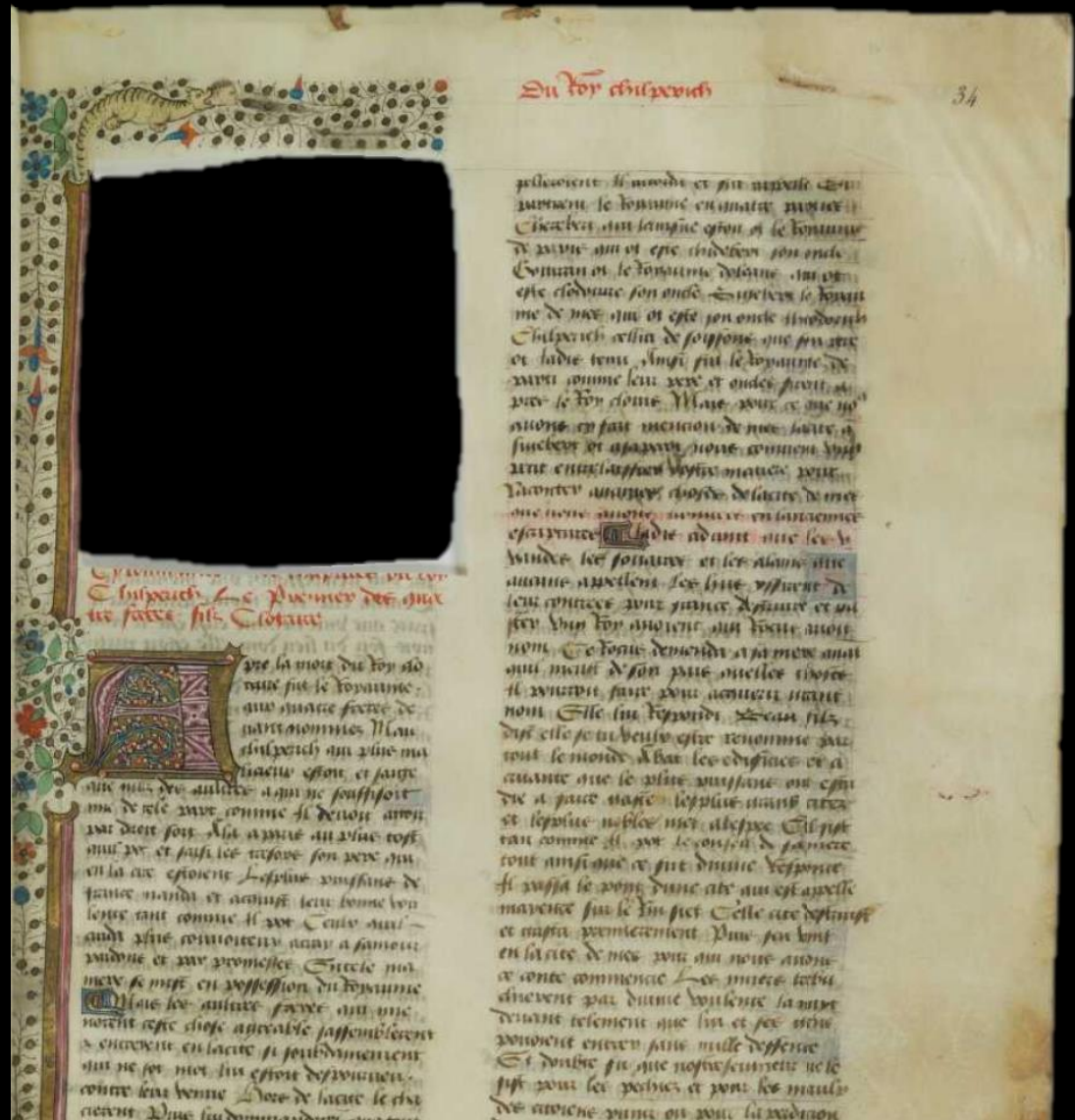
<https://searchworks.stanford.edu/view/zj784pt2430> | <http://collections.britishart.yale.edu/vufind/Record/1667254>

Collect items that belong together



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

Folio in BVM
Miniature in the BNF



Reunify

Biblissima ^{li} PROJET ↓ OUTILS DÉMOS DOC

Démos ^{li} f t u o

Proto-BBMN 1713 Prototype Bibliothèque de Florus **Grandes Chroniques de France** Mirador Atelier RDF/SPARQL 2014

A propos ☐ Afficher les miniatures ?   

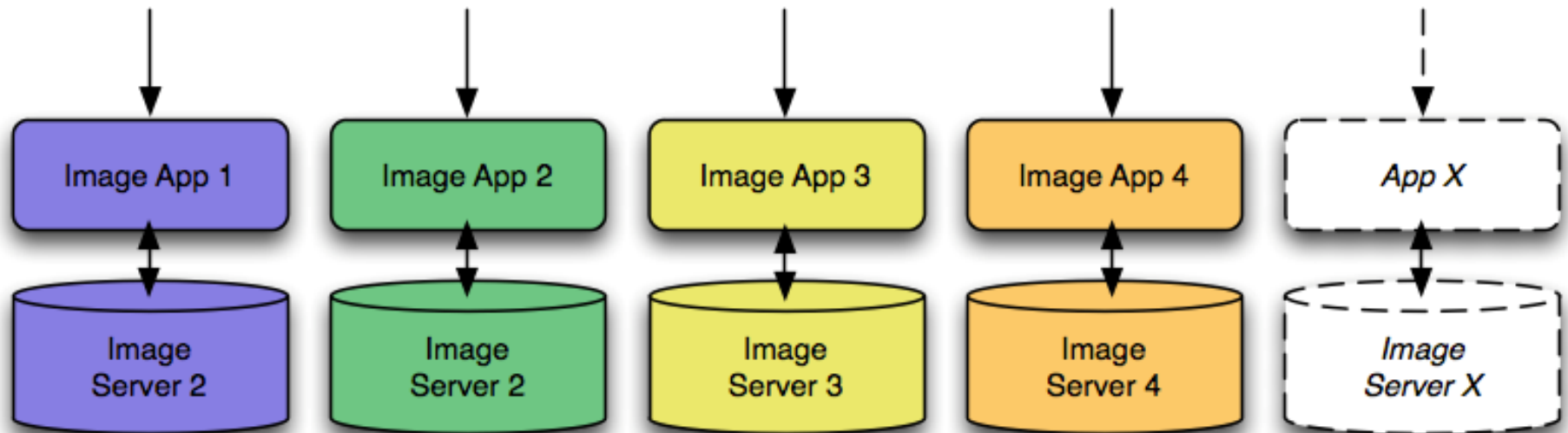
[Mort de Gondevald. Entretien entre Gontran et Childebert]



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

What if?

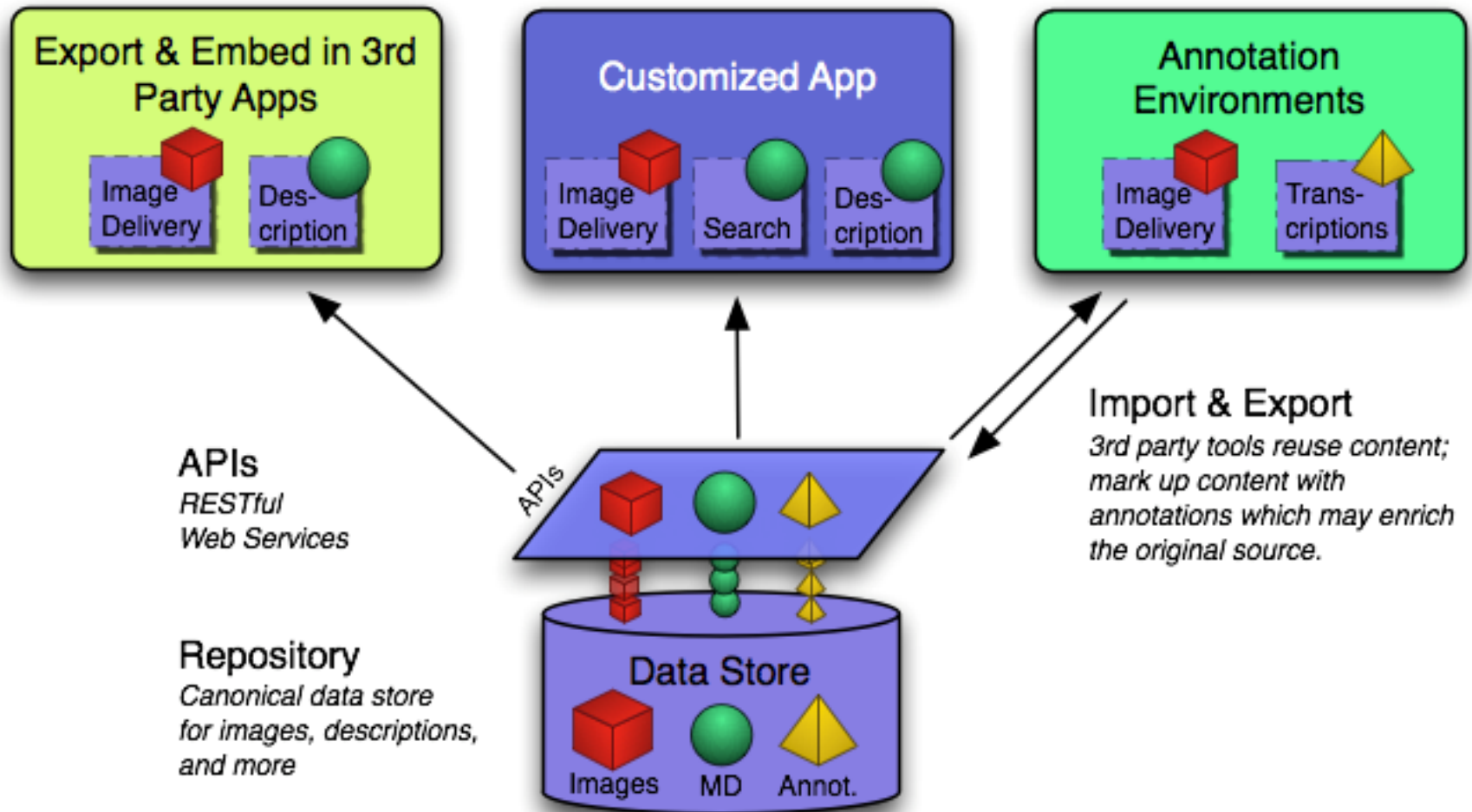
A world of silos & duplication



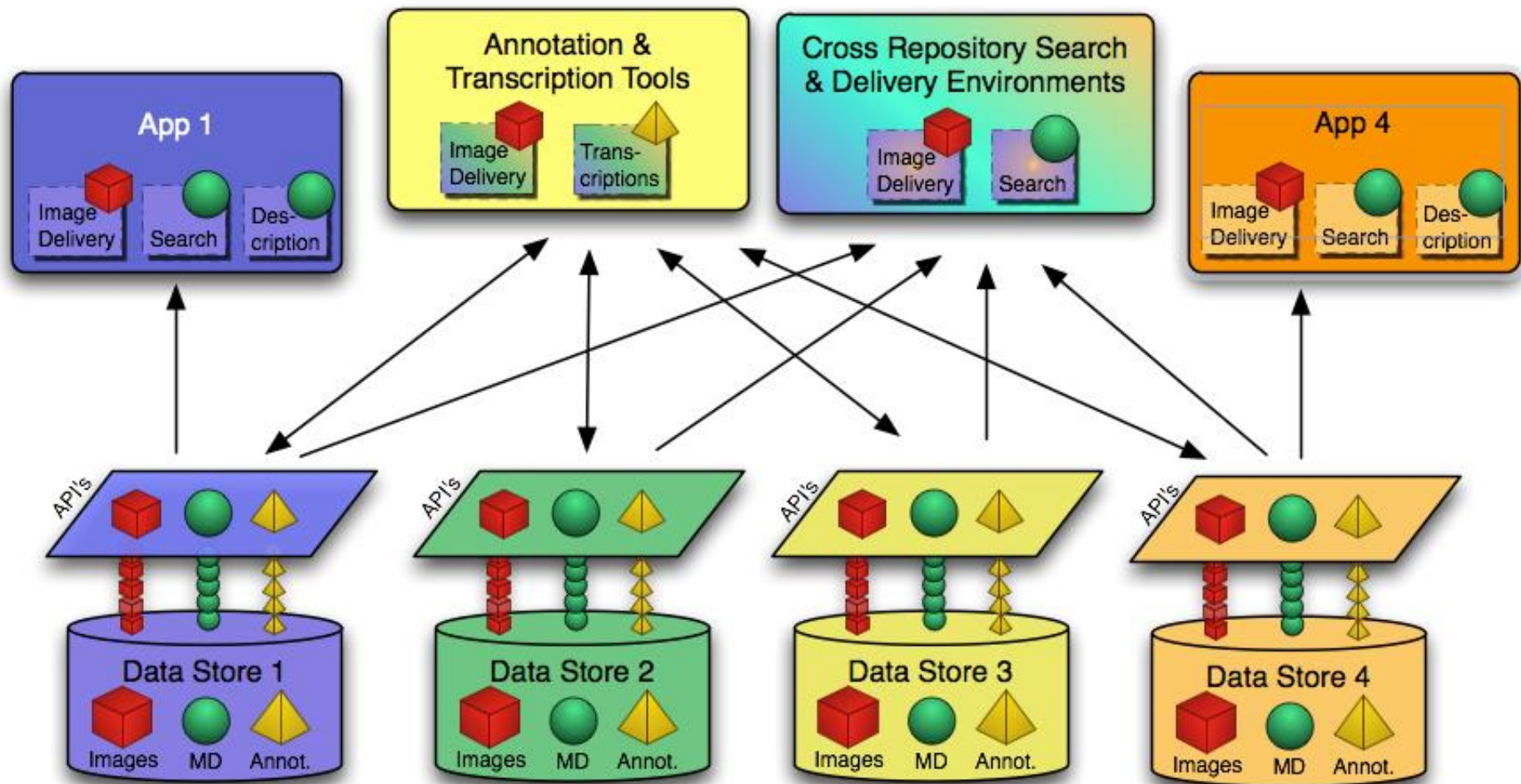
- Every site a silo (→ no interoperability)
- Every app a one-off (→ overhead to code and keep)
- Every user forced to cope (→ many UIs, little integration)



APIs enable reuse



APIs -> Framework -> Ecosystem



IIIF 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**

IIIF dramatically reduces the friction of delivering image-based resources on the Web

- Bigger, better, faster, deeper, cheaper, more modular and more flexible
- Plug-and-play server and client software
- Publish once, reuse often
- Support for attribution and access control

IIIF creates radical new capabilities to do more than **view** resources

- Zoom, pan, interact, manipulate
- Compare, reunite, remix & mash up
- Cite and share
- Annotate
- Apply machine learning and AI



So What Is IIIF?



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



A Community

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

IIIF is a
community-driven
framework



Institutions AND Individuals



IIIF Working Group Meeting, New York, May 2016

IIIF is a Global Community





A Community
that develops **Shared APIs**,
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and exposes interoperable **Content**

IIIF: Two Core APIs

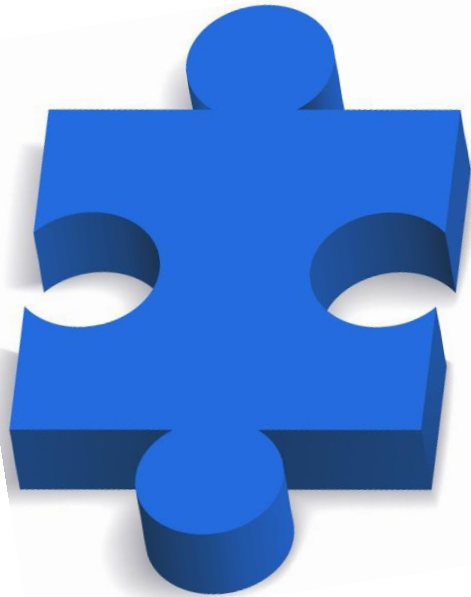


Image API

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



Presentation API

Just enough metadata to drive a remote viewing experience

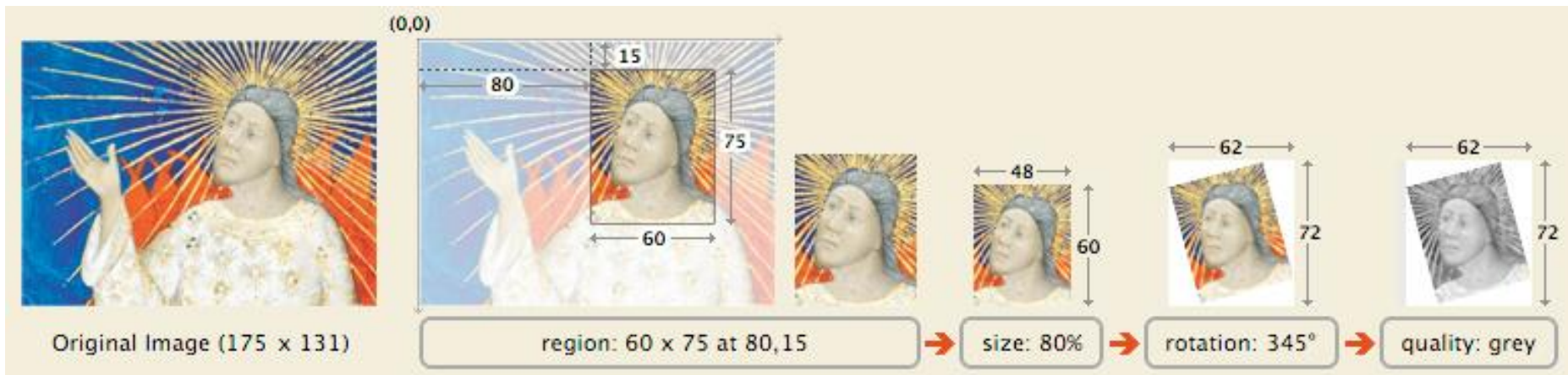


Image Delivery API

Order of Implementation

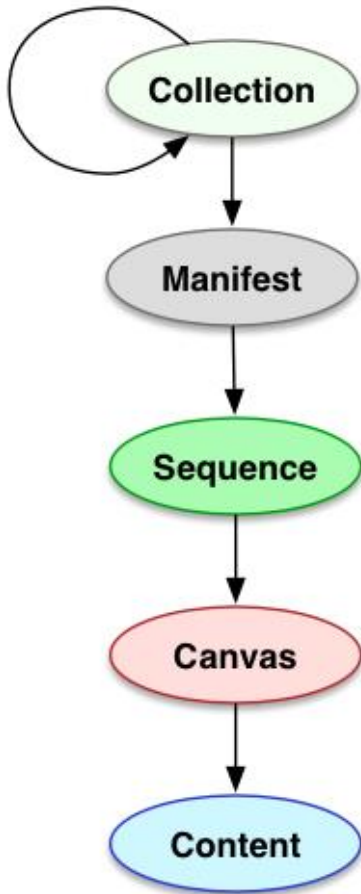
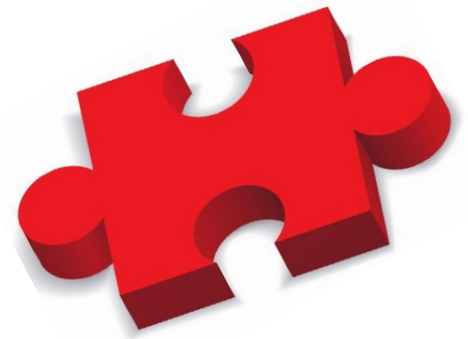
<http://www.example.org/image-service/abcd1234/80,15,60,75/pct:80/345/grey.jpg>

region size quality rotation format



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

Presentation API



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

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

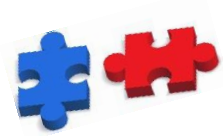


Image + Presentation = Object

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)

Et ton no preuiz deue & ignouir.
Dieu exaudi
nos oronlon exauce sire pto amo.
Et clamor meus.
ffing deue toy perueigne ma
clamour. **O**remus. **o**rd
Dieu ihesu xpe.
fils de dieu le nre amoureux
ihesu crist pour eldore tourmens
gemissemes & cris entre lame de moy
mer & to iugemet ta passio ta mort
& ta croix hablemet de pite & a leur
qui me faura mourir ton saint ange
loit pres pour elle secourir sire le
ten suppli et repartir ta place a

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



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

Hours of the Cross (ff. 21-35)

- Matins (ff. 21-23v)
- Presentation API
 - 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)

Image API

- Image Data

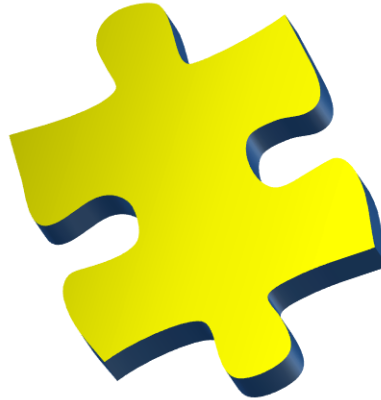
f. 24v, f. 25: Flag..., f. 25v, f. 26, f. 26v, f. 27

IIIF: Three More APIs



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.



A/V API

Deliver time-based media (audio, video)



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

IIIF Compatible Software



Cantaloupe

High-performance dynamic image server in Java

go-iiif



dhlab-basel / Sipi

Riiif

gem version 1.7.0 coverage 93%

A Ruby IIIF image server as a rails engine



uoregon-libraries / rais-image-server

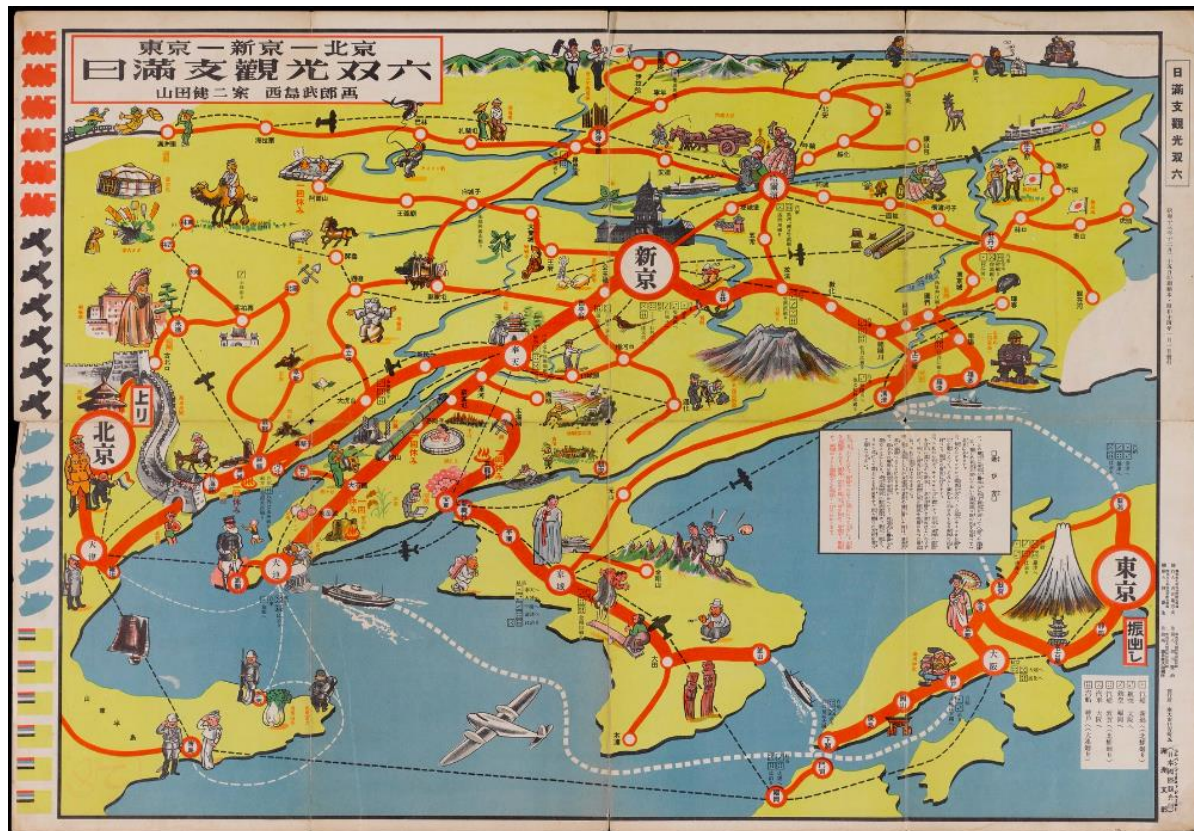
KLOKAN TECHNOLOGIES



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

IIIF Content – Digital Images

- Example: Nichi-Man-Shi kanko sugoroku (Japan-Manchuria-China sight-seeing board game), from Princeton University



IIIF Content - Texts

- Example: Illustrierter Sonntag (Der gerade Weg), 22.09.1929, from the Bavarian State Library



IIIF Content – Scientific Images



- Example: *Acacia* - *Fabaceae*, from the Natural Sciences Institute of the National University of Columbia

IIIF Content – Cultural Heritage

- Paintings
- Maps
- Manuscripts
- Photographs
- Scrolls
- Sculpture
- Sheet Music
- Any kind of image content



Compatible Content

400,000,000+
Images

from

100+ Institutions



Scores of adopters
Dozens of applications
Millions of digital objects
Revolutionary promise



That's great.

How do I use it?

IIIF Viewers

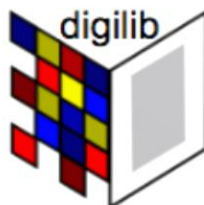
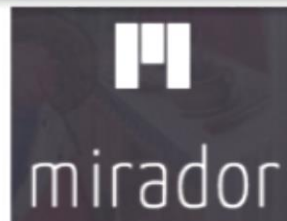
Featuring the Universal Viewer
& Mirador



Cantaloupe

High-performance dynamic image server in Java

go-iiif



OpenSeadragon



 dhlab-basel / Sipi



Riiif

gem version 1.7.0 coverage 93%

A Ruby IIIF image server as a rails engine



 uoregon-libraries / rais-image-server

KLOKAN TECHNOLOGIES

The logo consists of the letters 'U' and 'V' in a white, stylized, sans-serif font. The 'U' is a simple U-shape, and the 'V' is formed by two diagonal strokes meeting at a point. They are positioned side-by-side on a solid purple square background.

UV

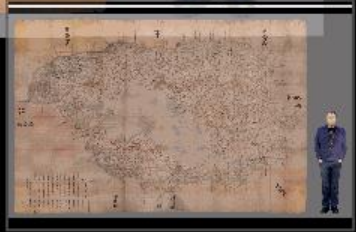
Universal Viewer



mirador

IIIF Image API Test Objects

+ - ↺



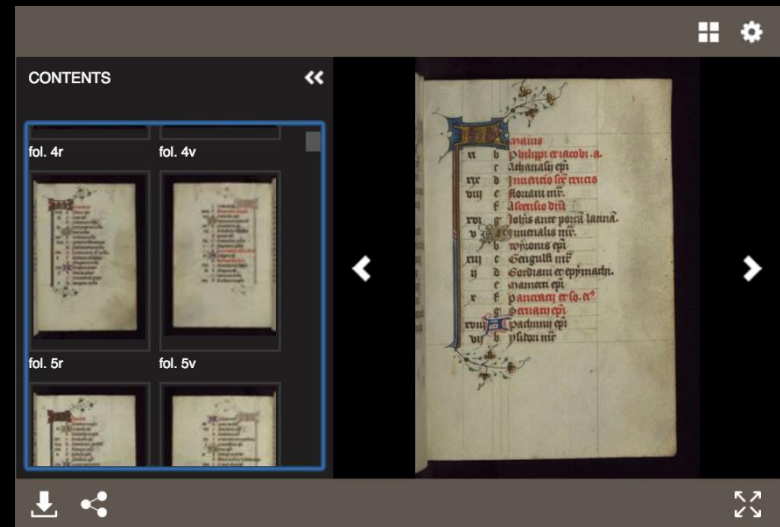
ATTRIBUTION x
Provided by the Stanford University Libraries



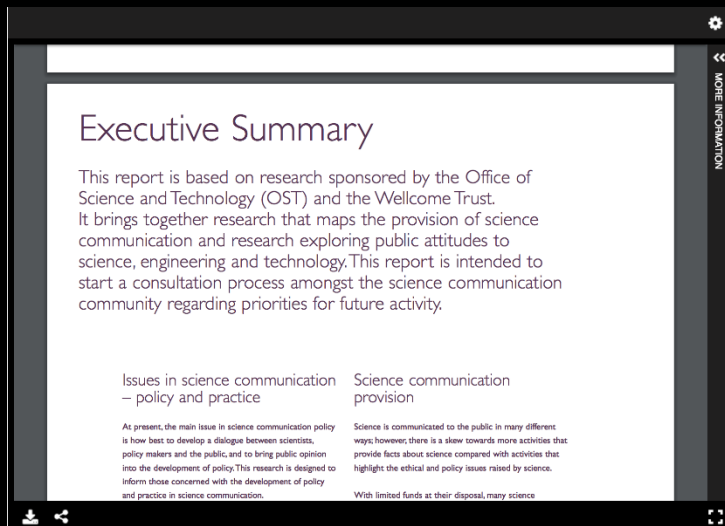
Universal Viewer = many formats



Simple Image Viewer



Book / Manuscript Viewer



PDF Viewer



Audio/Video Player

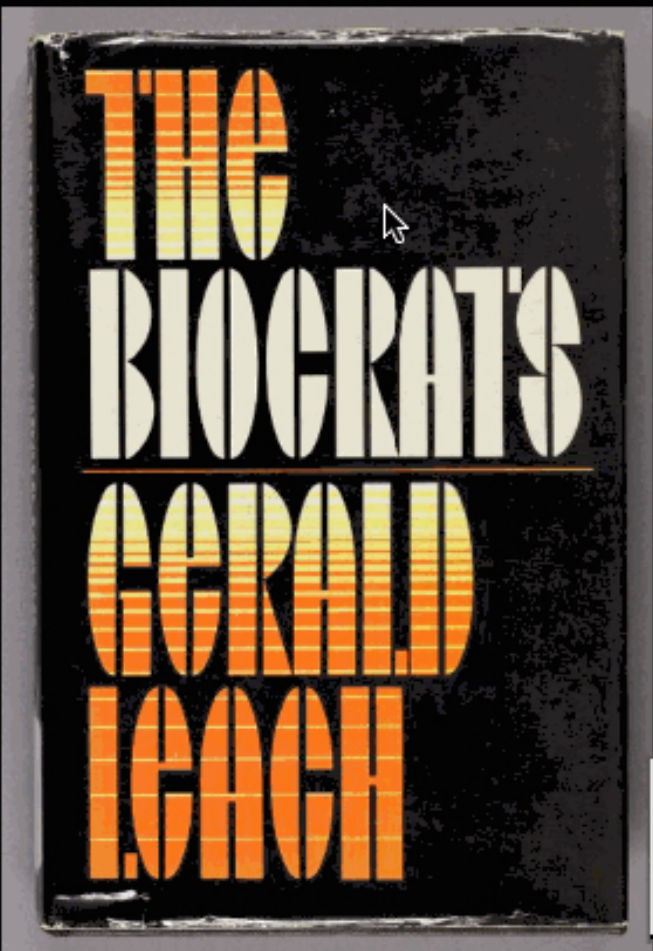
CONTENTS <<

Index Thumbnails



The biocrats

+ - ↺



<< MORE INFORMATION



hc941fm6529

+ -



MORE INFORMATION

ATTRIBUTION



Stanford University



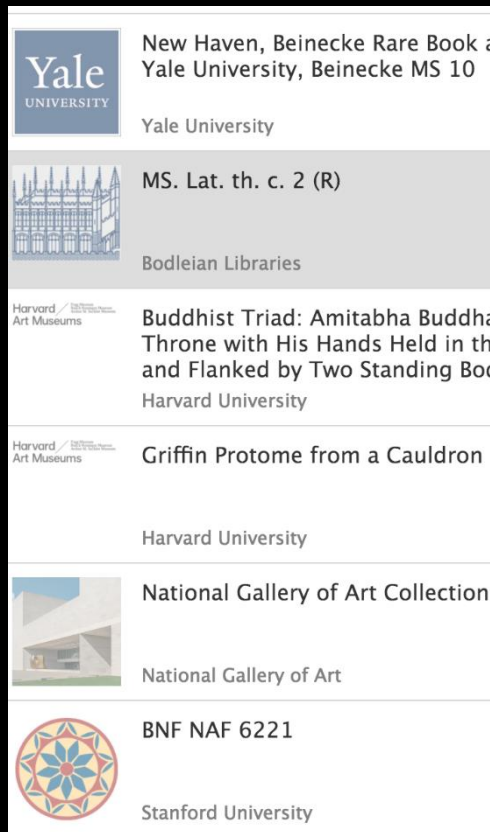
Universal Viewer Roadmap

- Adoption and support by
 - Digirati & Holoscene
 - Wellcome Library
 - National Library of Wales
 - British Library
 - Stanford University
 - Princeton University
 - Villanova University
 - National Library of Norway
- Future directions
 - Adoption of IIIF Presentation API v 3.0
 - Enhanced support for PDF, 3D objects, Office documents.
 - Improvements to UI, accessibility.

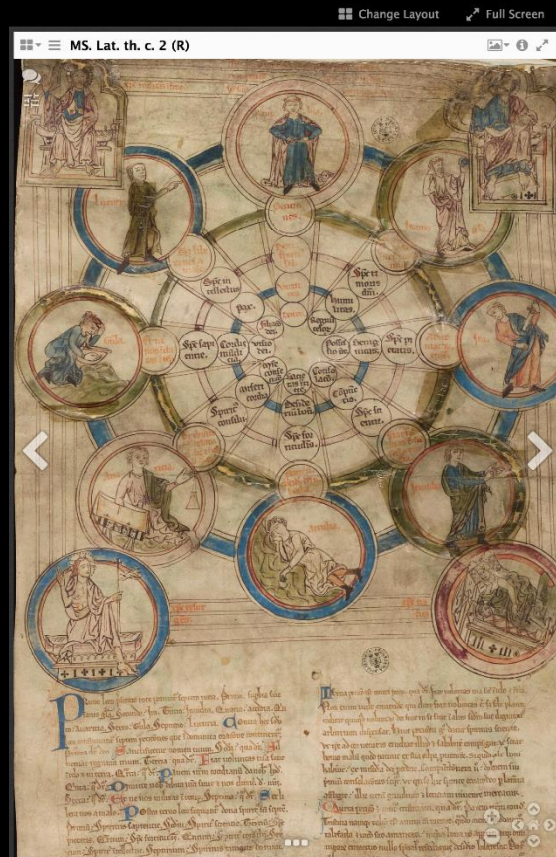


mirador

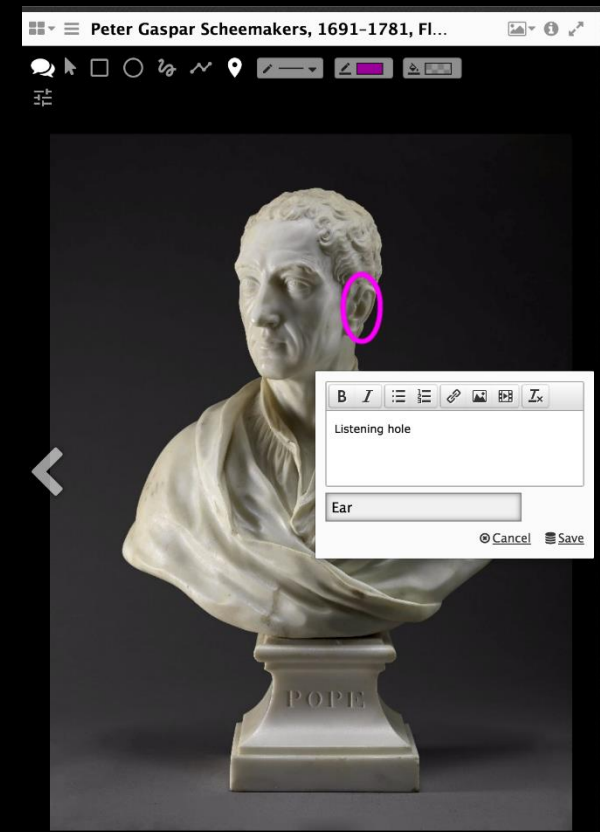
Mirador: 3 Primary Functions



Load



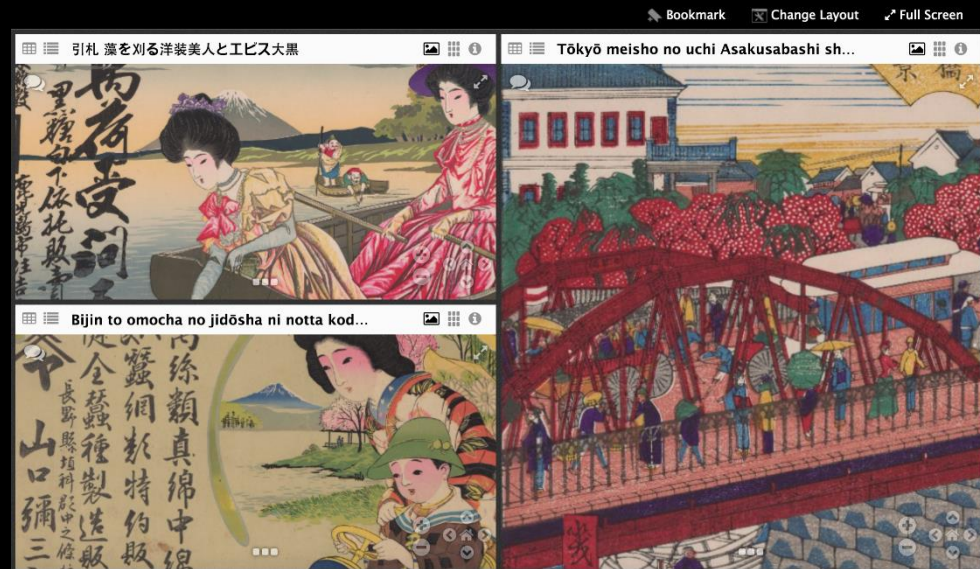
View



Annotate

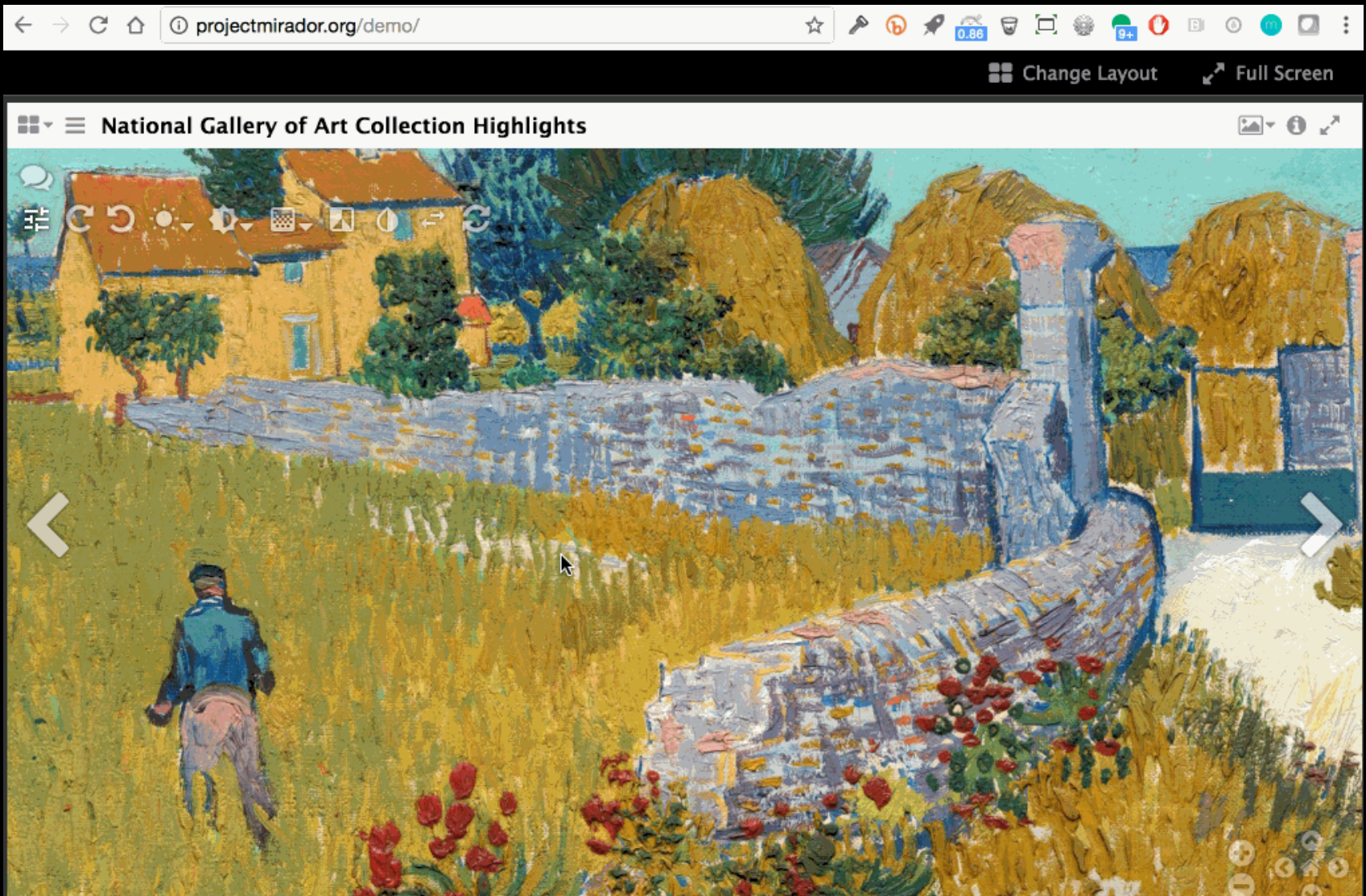
How people are using Mirador...

- Viewing
- Comparison
- Annotation
- Transcription
- Unification
- Computational imaging
- Teaching
- Research
- Exhibits

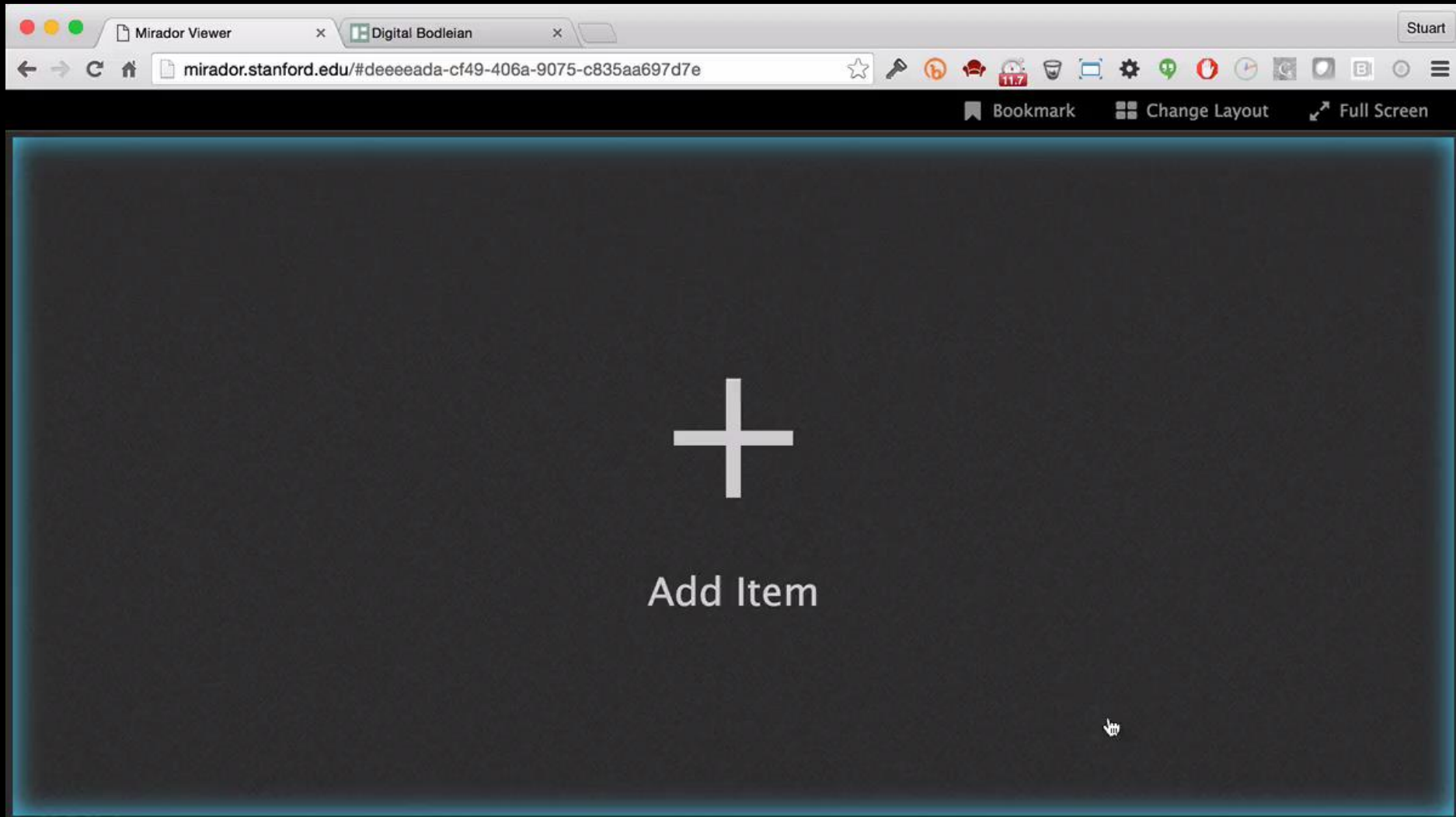


- *Embedded*
- *Stand Alone*
- *Scholars Workbench*

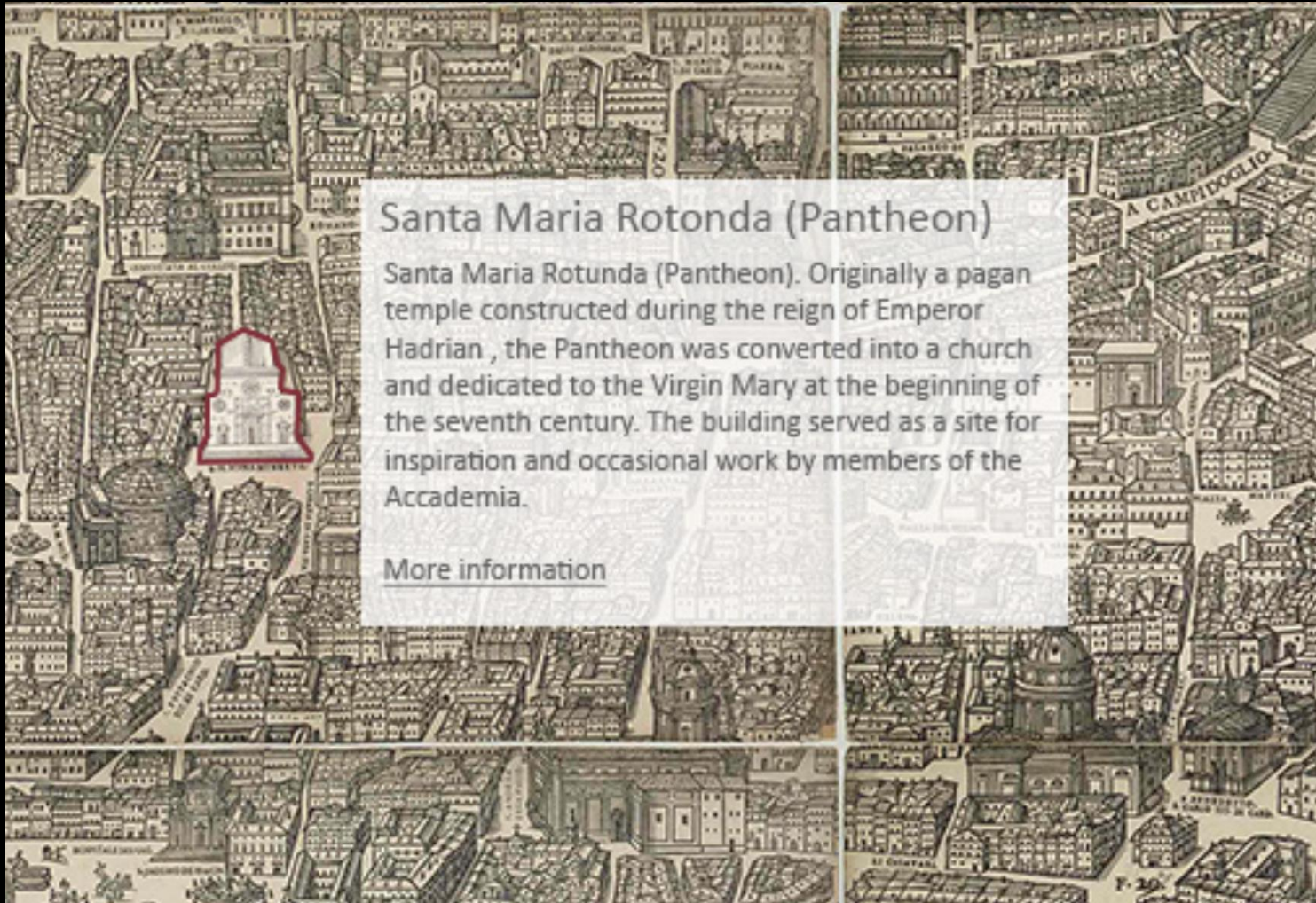
Zoom and analyze images



Compare & Contrast



Annotate



Santa Maria Rotonda (Pantheon)

Santa Maria Rotonda (Pantheon). Originally a pagan temple constructed during the reign of Emperor Hadrian, the Pantheon was converted into a church and dedicated to the Virgin Mary at the beginning of the seventh century. The building served as a site for inspiration and occasional work by members of the Accademia.

[More information](#)

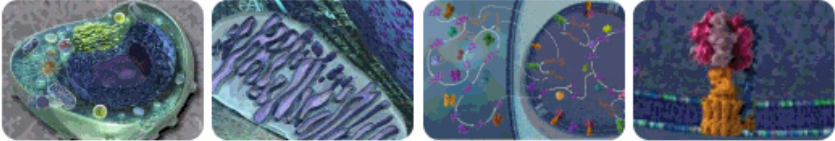
Annotate

← ↻ 🏠 🔒 Secure <https://courses.edx.org/courses/course-v1:HarvardX+MCB64.1x+2T2016/d16e07a5cec442eeb7cd9dfcb695dce0/> ⭐ 🔑 📌 🚀 📅 11.8 🗑️ 🖨️ 🌐 📱 9+ 2 📖 ⌚ 🔍 🌐

Course CellXplorer Syllabus and FAQs

CellXplorer is an interactive and annotated graphic that you can navigate. You can click on the buttons below to zoom in. As each week's content becomes available, you can also navigate to the lesson associated with that part of the cell! The graphic below can sometimes take some time to load.

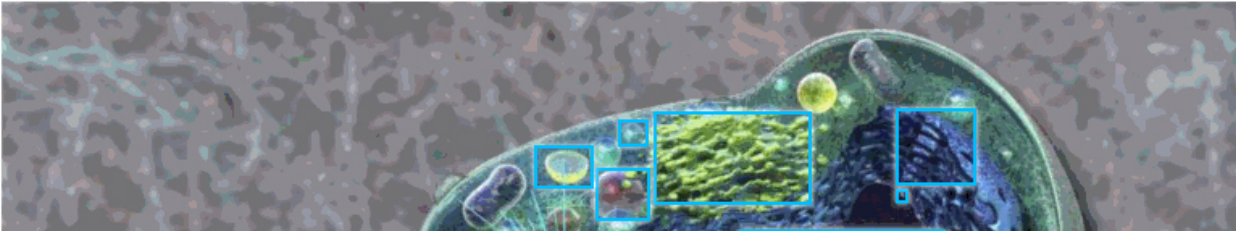
Support



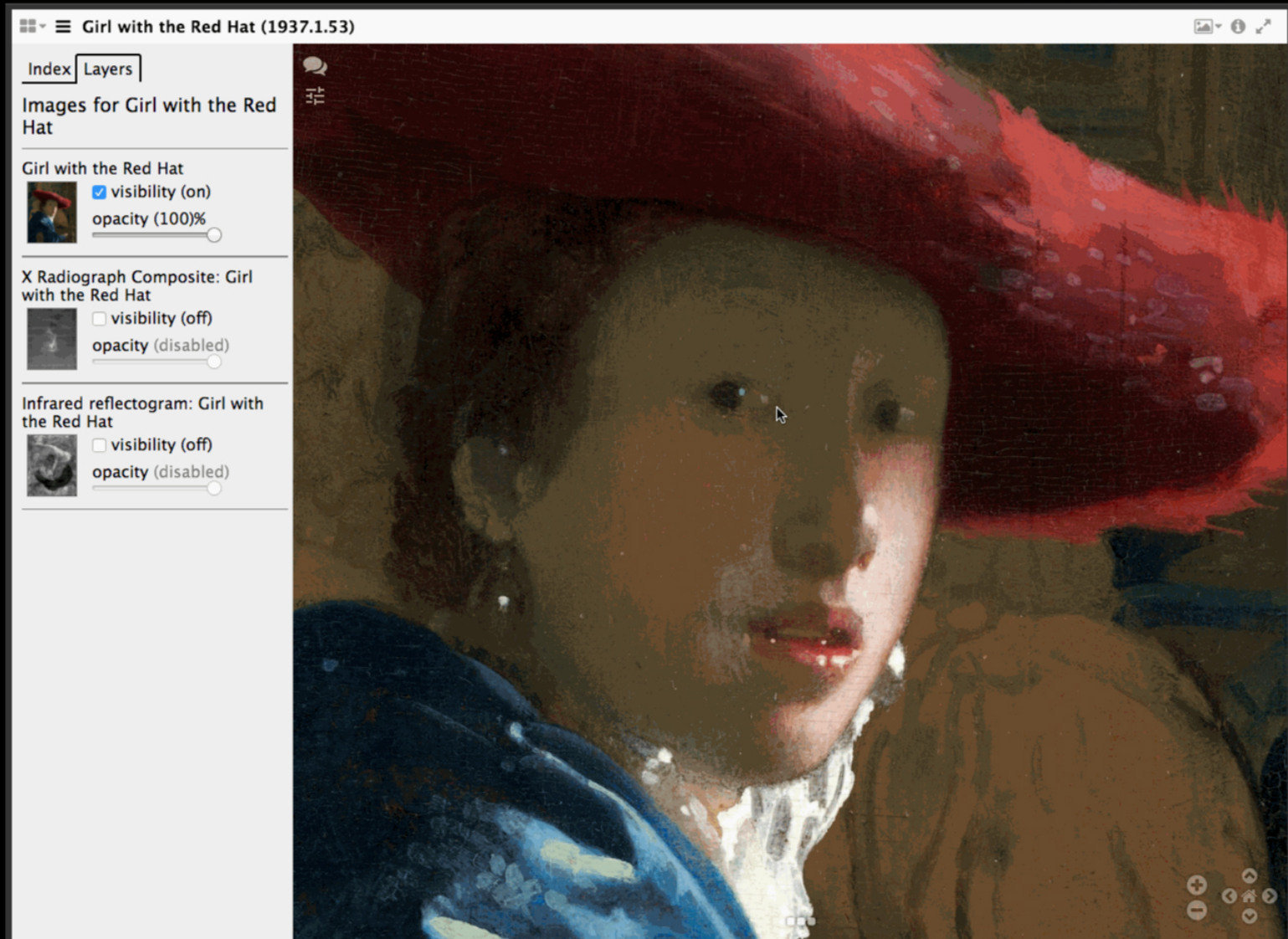
Show Annotation List

CellXplorer (eukaryotic and prokaryotic cells) ⓘ

🗨️ ↕

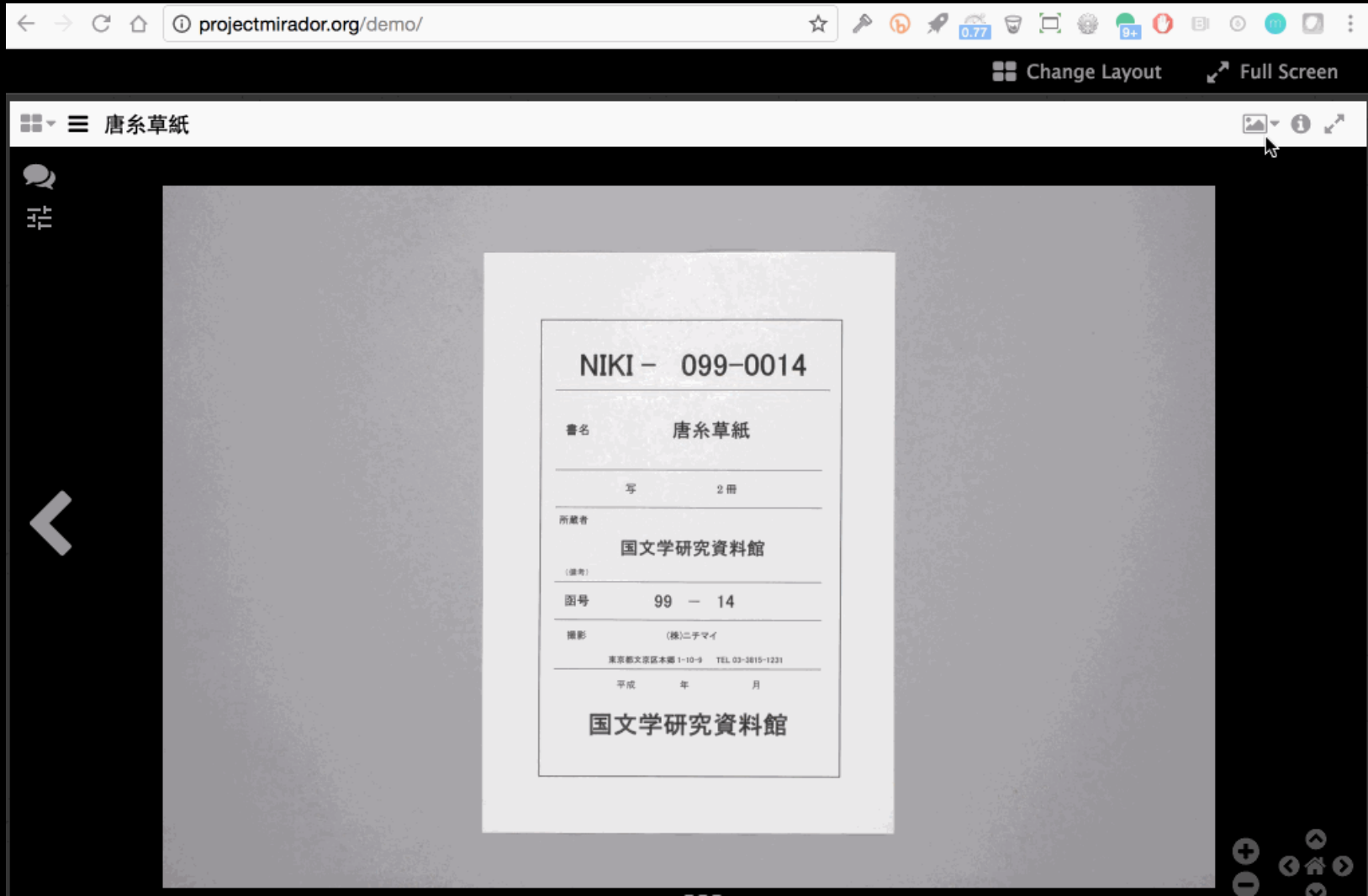


Analyze layers

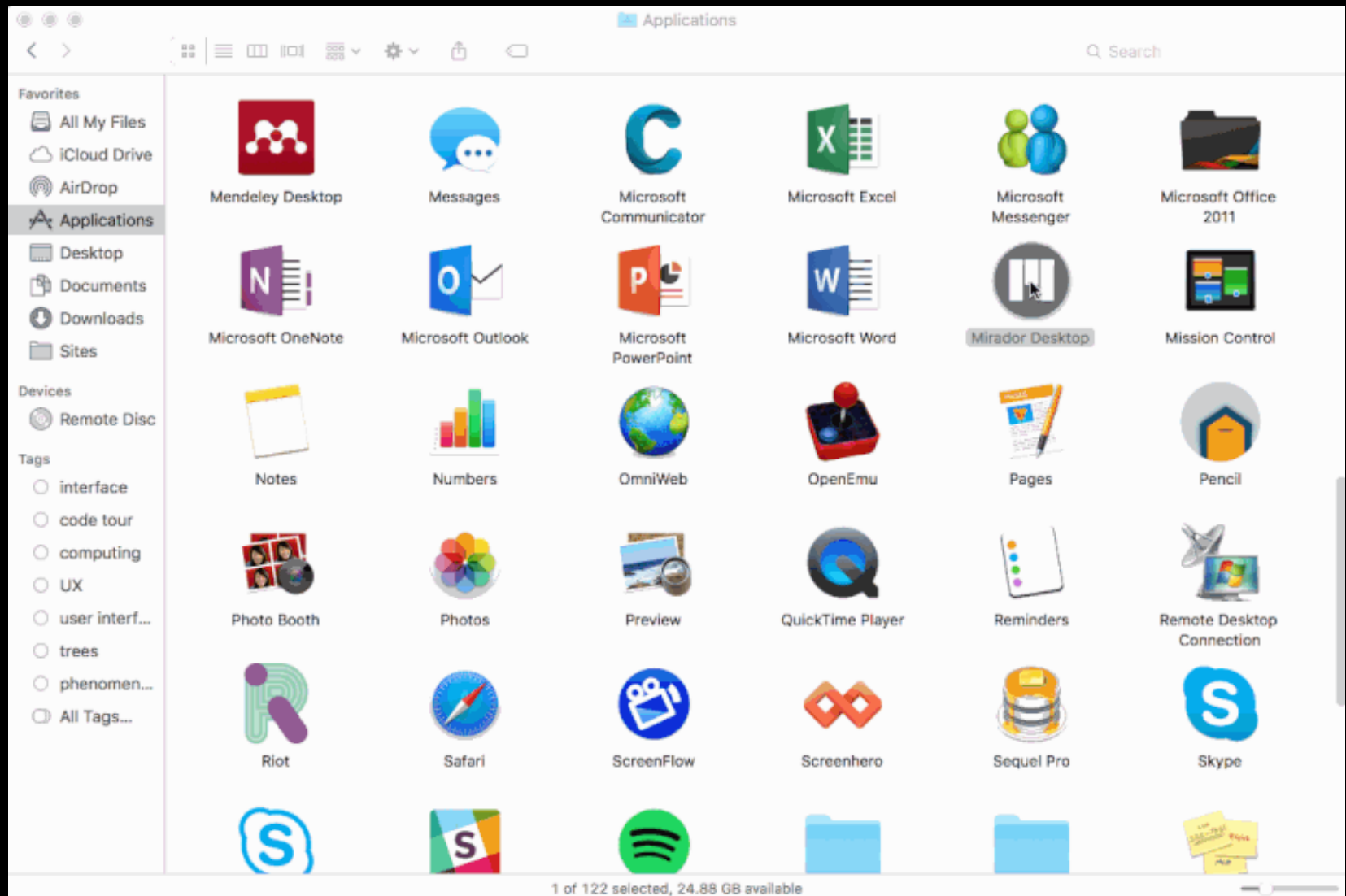


Vermeer's Girl with the Red Hat, from the National Gallery of Art (US)

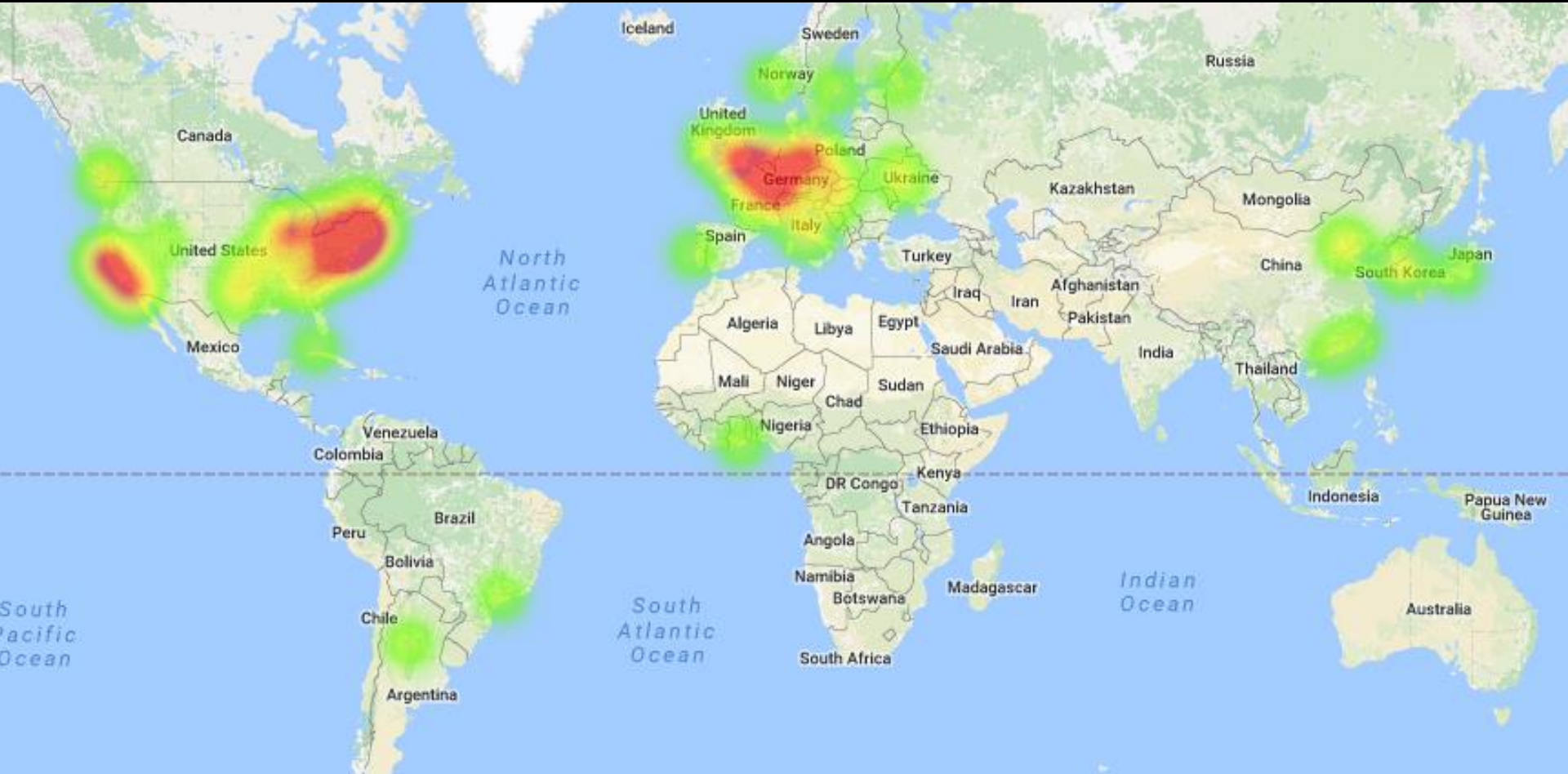
Right-to-left reading (thanks to Kiyonori Nagasaki!)



Mirador Desktop



Mirador Github Activity Worldwide



<http://jrvis.com/red-dwarf/?user=projectmirador&repo=mirador>

Mirador Contributions

In a Nutshell, mirador...

... has had 1,777 commits made by 45 contributors representing 63,941 lines of code

... is mostly written in JavaScript with an average number of source code comments

has a young, but established codebase maintained by a very large development team with stable Y-O-Y commits

... took an estimated 16 years of effort (COCOMO model)

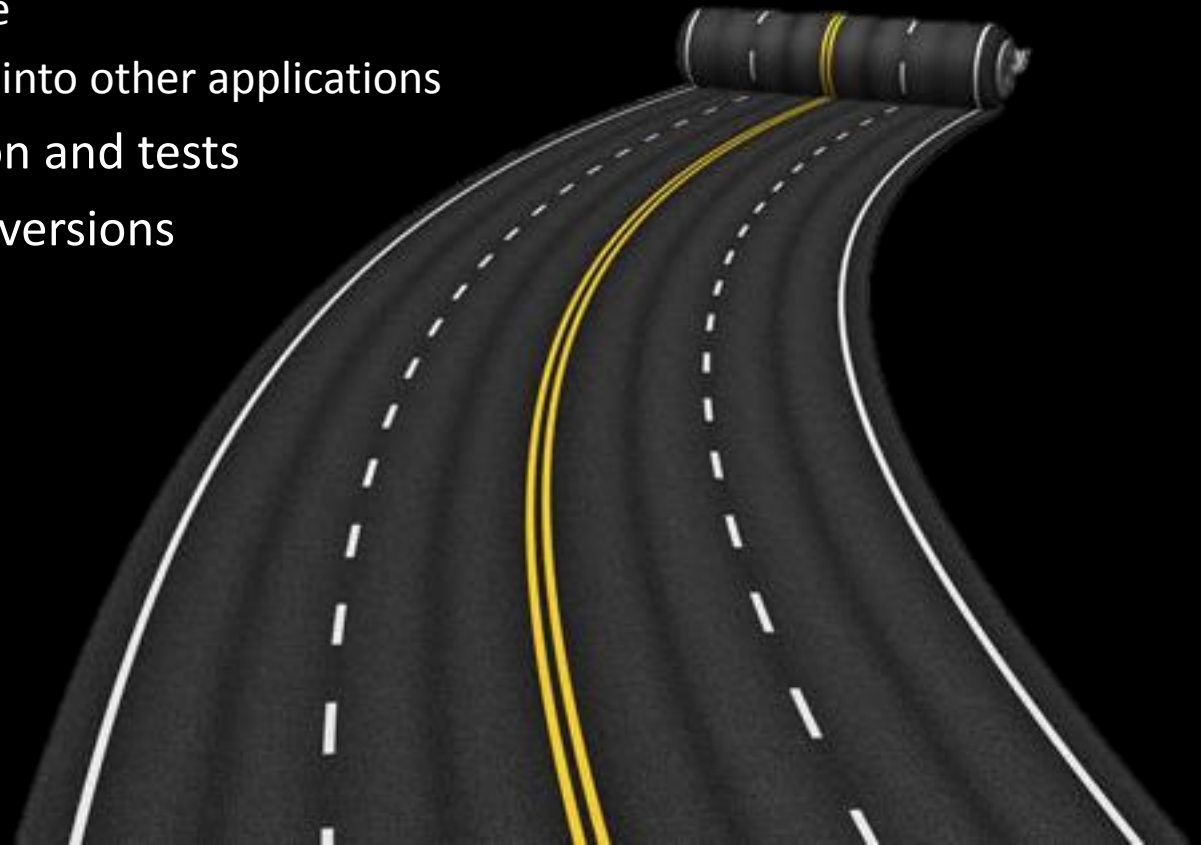
starting with its first commit in April, 2014 ending with its most recent commit 6 months ago

<https://www.openhub.net/p/mirador>

- Stanford
- Harvard
- National Gallery of Art
- Yale University
- UCLA
- BnF/Biblissima
- BSB
- University of Tokyo
- University of Toronto
- St. Louis University
- The Frick
- Johns Hopkins
- Hill Museum & MS Lib
- Sirma
- *Et al.*

Mirador Roadmap

- Mirador 3 planning
 - Major UX and visual redesign
 - Major upgrade to technical underpinnings
 - Easier to customize
 - Easier to integrate into other applications
 - Better documentation and tests
 - Desktop and mobile versions



Try It and Get Involved

<http://projectmirador.org/>

<http://github.com/projectmirador>

<https://github.com/ProjectMirador/mirador-desktop>

mirador-tech@googlegroups.com

Leaflet-IIIIF and integration in other applications

Jack Reed | @mejackreed

<https://github.com/mejackreed/Leaflet-IIIIF>

What is Leaflet-IIIF?

- Leaflet-IIIF is JavaScript plugin for the interactive map library Leaflet
- It allows you to create performant interactive images using IIIF Image API endpoint

GitHub

FOURSQUARE

Pinterest

facebook



EVERNOTE

Etsy

flickr

500



DATA.GOV



European
Commission

The Washington Post

FT.com
FINANCIAL TIMES

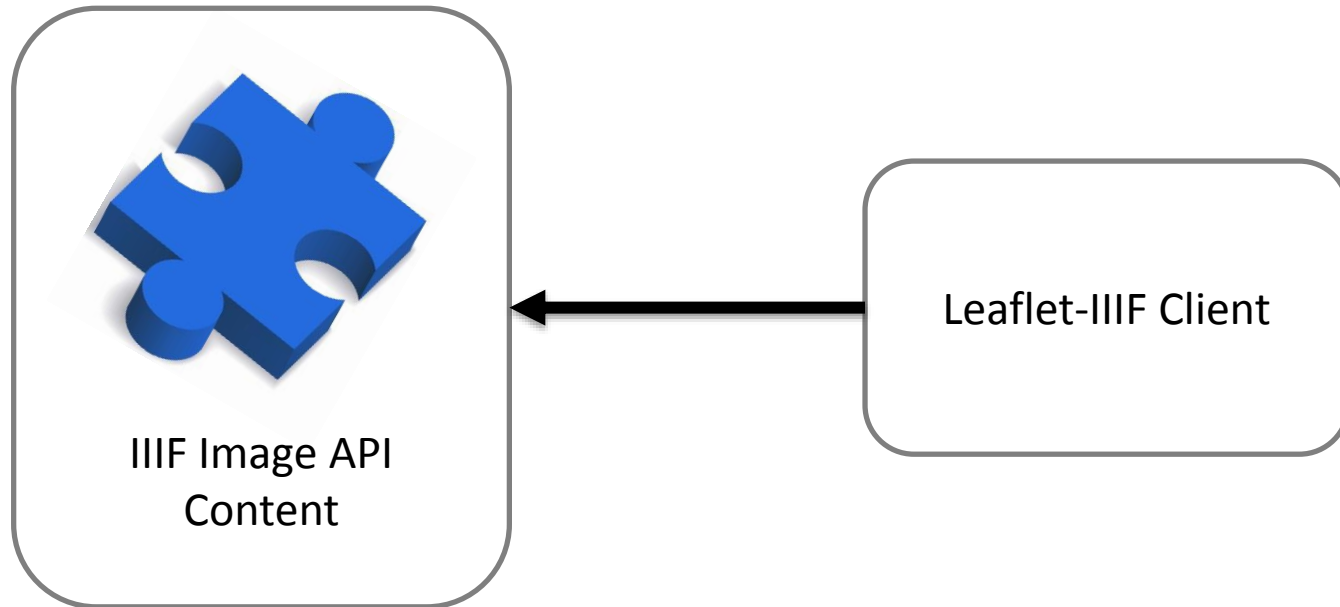
npr

USA TODAY



IGN

- leafletjs.com



Leaflet-IIIIF - Basic example



<https://bl.ocks.org/mejackreed/b0aba2ff6f5a54f197767313fbc5a26e>
bit.ly/leaflet-iiif-basic

So what is so special about Leaflet?

“Leaflet is designed with simplicity, performance and usability in mind.”

- leafletjs.com

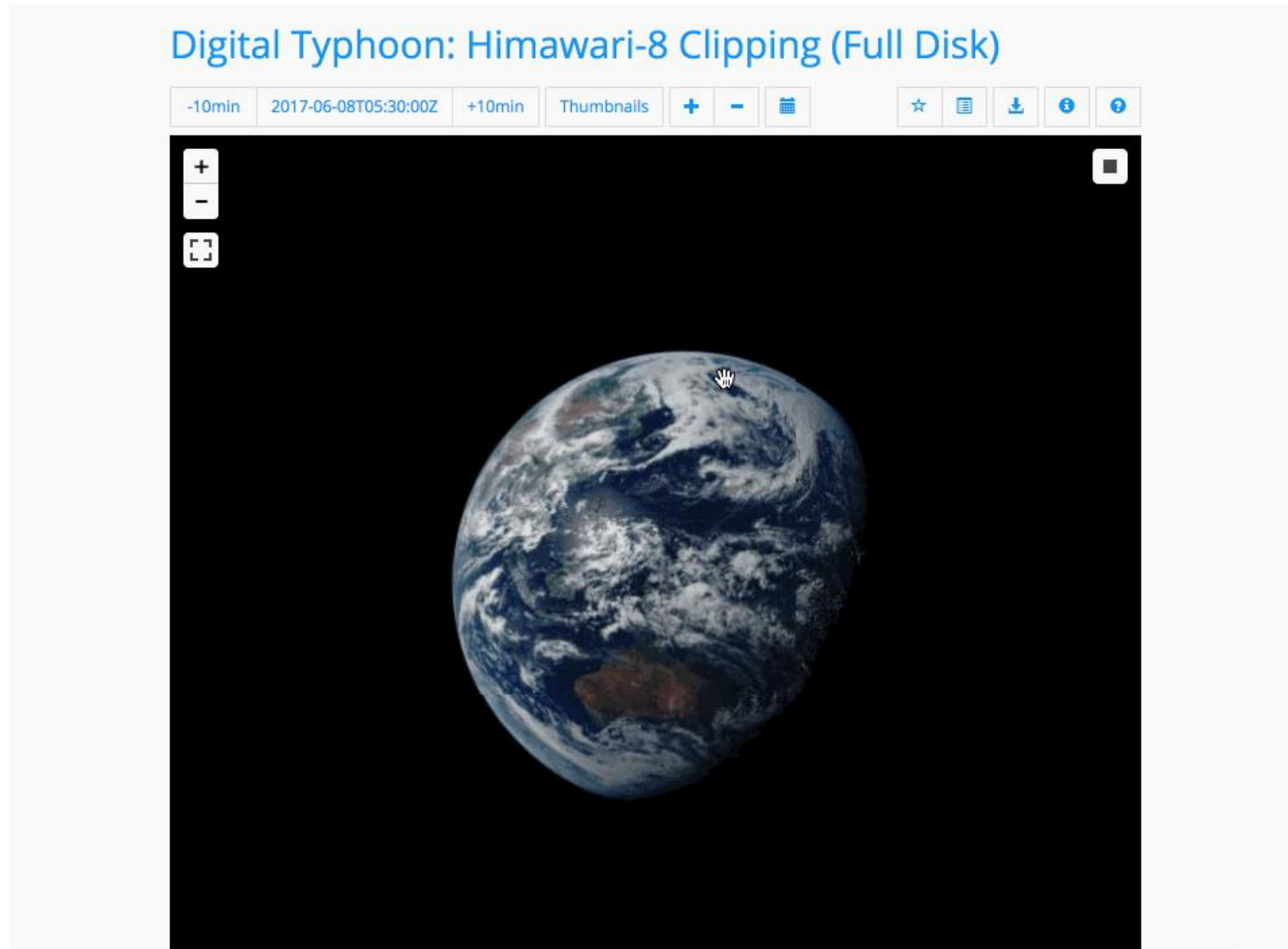
- > 530 contributors
- Very lightweight < 40Kb
- Chrome, Firefox, Safari +5, Opera +12, IE 7-11 Support
- Excellent mobile support
- Accessibility
- Object-oriented programming principles
- No external dependencies

But the big advantage...

Plugin architecture with over

400 plugins

Digital Typhoon: Himawari-8



<http://codh.rois.ac.jp/software/iiif-curation-viewer/>

<http://agora.ex.nii.ac.jp/digital-typhoon/himawari-3g/clipping/index.html.en>

Leaflet-IIIF – Layering



Cropping images using Leaflet-IIIF



<https://bl.ocks.org/mejackreed/6936585f435b60aa9451ae2bc1c199f2>

Cropped images being used in other applications



STANFORD UNIVERSITY LIBRARIES

Sign in Feedback

The Bob Fitch Photography Archive Movements for Change

HOME EXHIBIT CATALOG BROWSE ABOUT

Search...



Martin Luther King, Jr. Gallery

Trained to be a Protestant minister, Bob Fitch's career as a photojournalist began in 1965 when he joined the Rev. Martin Luther King Jr.'s organization, The Southern Christian Leadership Conference, as a staff photographer. As Fitch notes, "I worked for two intense years as the volunteer photographer for Dr. King and the SCLC, crisscrossing 'Black Belt' states to document his people-to-people speaking tours promoting get-out-the-vote campaigns"



<https://exhibits.stanford.edu/fitch>
<https://github.com/projectblacklight/spotlight>

Europeana

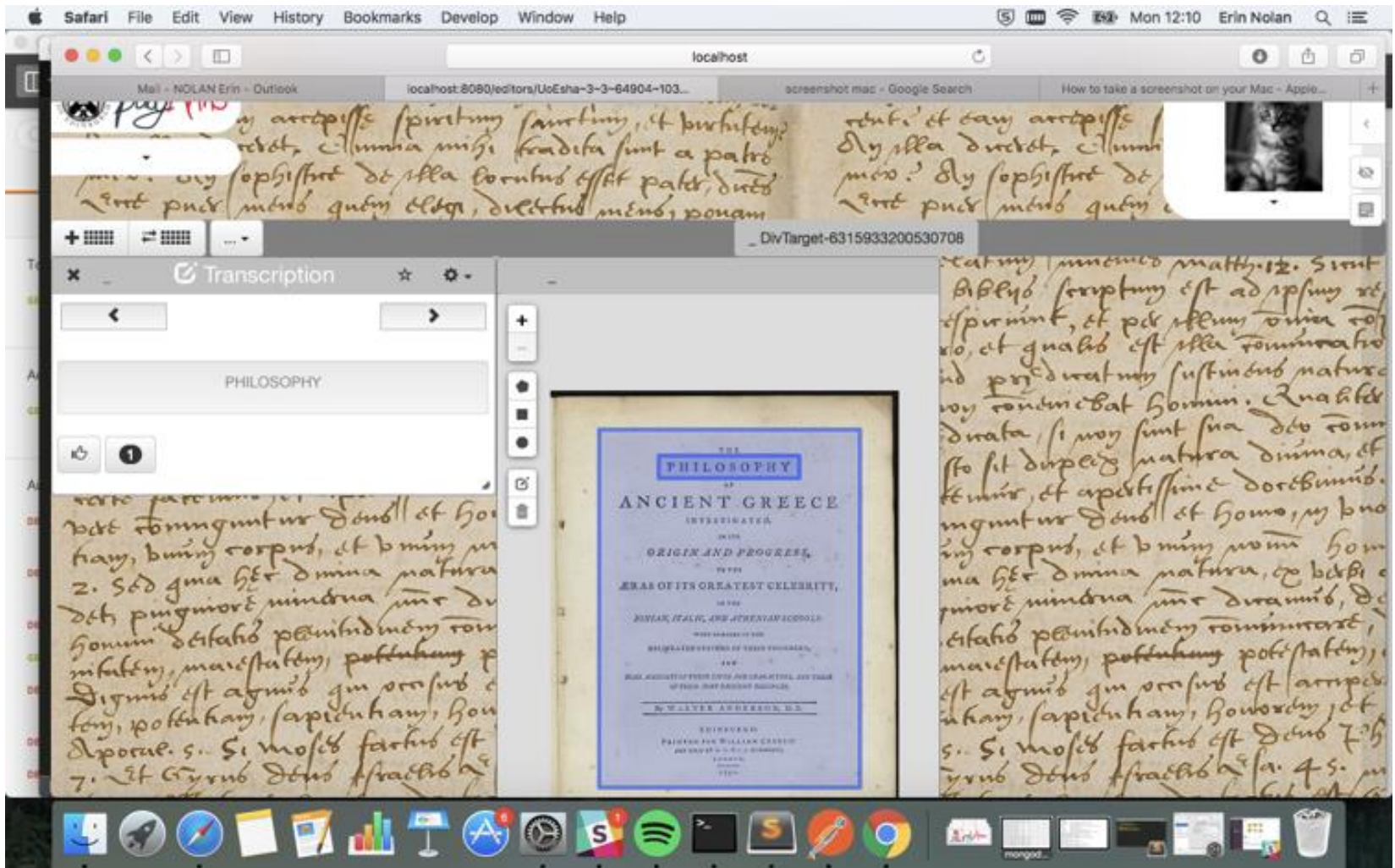
The screenshot displays the Europeana website interface. At the top, there is a navigation bar with the Europeana logo, links for 'Collections', 'Explore', 'Exhibitions', and 'Blog', a 'OUR SITES' button, and a 'LANGUAGE' dropdown menu. Below the navigation bar, a breadcrumb trail reads 'Return to Home / Results / Item'. A search bar on the right contains the text 'Search by keyword here' and a magnifying glass icon. The main content area features a large image of a manuscript page. The text on the page is in German, discussing the Lenten fast (Goltfasten). It includes several lines of text with large, ornate initial letters in blue and red. The text is as follows:

fuertung des vundes·funder das
wie gepreuchen des ewigen frides
Sprechen wir alle· Amen :
Hiernach ist zu mercken von den vier
Goltfasten· **D**r erst Goltfast·
Dr erst goltfast ist an dem
nechsten Mitwochen nach
dem Escher mitwoch· **D**r ander
Dr ander goltfast ist an
dem nechsten mitwoch
en nach dem heiligen pfingstag·
Dr drit goltfast· **D**r drit
ist an dem nechsten mit
wochen nach des heiligen kruz tag
als es erhaben ward· **D**r vierd
Dr vierd goltfast ist an
dem nechsten mitwoch
en nach sant Lucie tag : ~ :~

Below the manuscript image, there is a media player control bar showing '8 / 574' and navigation arrows. A 'Leaflet' logo is visible in the bottom right corner of the image area. At the bottom of the page, there is a 'Media Metadata' section with a table header 'Title' and a 'FIND OUT MORE' button. A vertical 'FEEDBACK' button is located on the far right edge of the page.

http://www.europeana.eu/portal/en/record/07931/diglit_wordsworth1841.html

PolyAnno

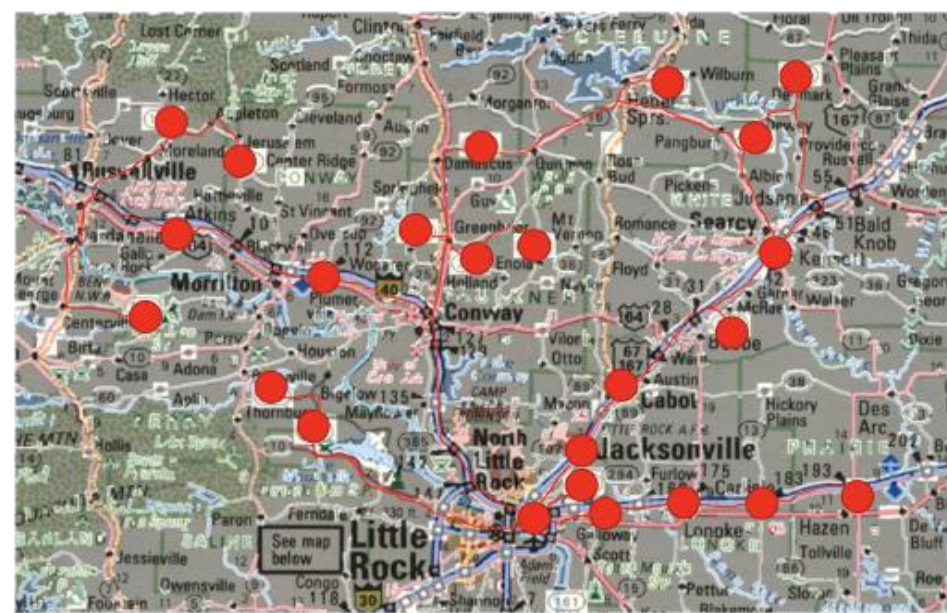


<https://pigeonsblue.com/2016/08/22/polyanno-adventures-in-annotation/>

Machine learning, computer vision, and IIIF

- IIIF image content is ripe to develop machine learning and computer vision applications
 - Web native API's provide a consistent way to access images (and parts of images)
 - IIIF speaks annotations out of the box, useful for classification and shape detection
 - Provides an interoperability opportunity for image processing collaboration

Histonets – Computer vision and machine learning with IIIF



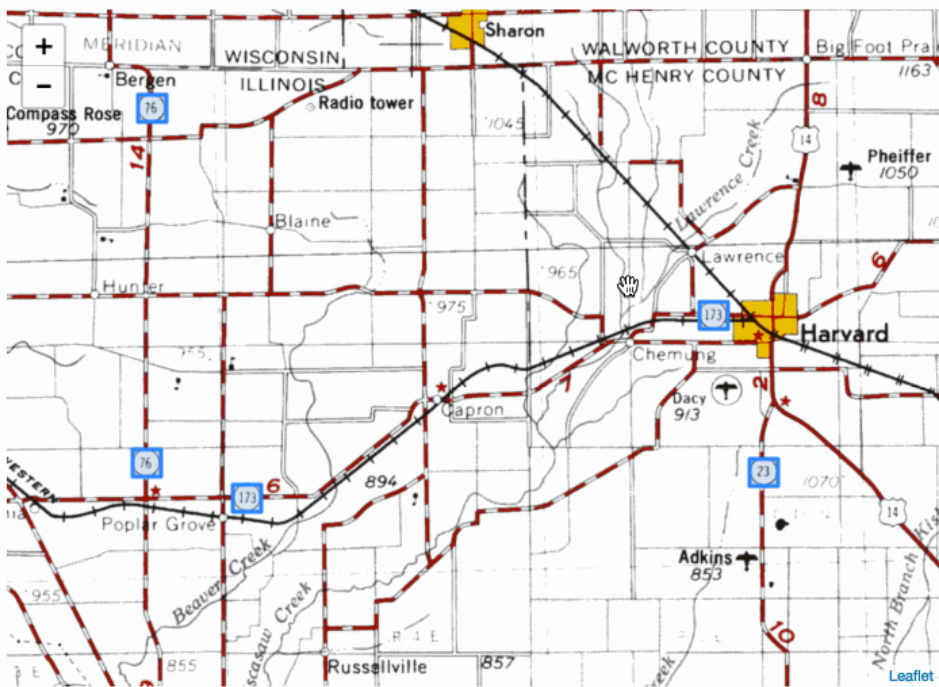
Select a Collection

Default Collection ↕

Next Step

<https://github.com/sul-cidr/histonets>

Review Template Match Results



Next Step

Create Image Templates



Change Layout Full Screen



Drop to Load Manifest

Provider

- ☐ Clarifai 3154
- ☐ Microsoft 3154
- ☐ Google 3152

Labels

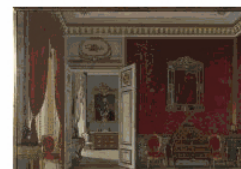
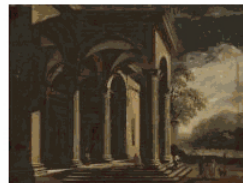
- ☐ Painting 4702
- ☐ Art 3024
- ☐ People 2611
- ☐ Adult 2263
- ☐ Portrait 1900
- ☐ One 1866
- ☐ Man 1691
- ☐ Woman 1625
- ☐ Wear 1538
- ☐ Illustration 1496
- ☐ Religion 1424
- ☐ No Person 1213
- ☐ Person 1151
- ☐ Print 1109
- ☐ Veil 905
- ☐ Renaissance 870
- ☐ Group 853
- ☐ Picture Frame 808
- ☐ Old 749
- ☐ Tree 706
- ☐ Saint 645
- ☐ Indoor 644
- ☐ Two 615
- ☐ Water 591
- ☐ Landscape 511
- ☐ Image 504
- ☐ Outdoor 491
- ☐ Furniture 488
- ☐ Mammal 483
- ☐ Nature 481
- ☐ Antique 467
- ☐ Outdoors 467
- ☐ Indoors 465
- ☐ Travel 454
- ☐ Vintage 436
- ☐ Baby 427
- ☐ Leader 424
- ☐ Text 421
- ☐ Child 417

[About this project](#)

9460 results found

Relevance ▼

Clear all filters

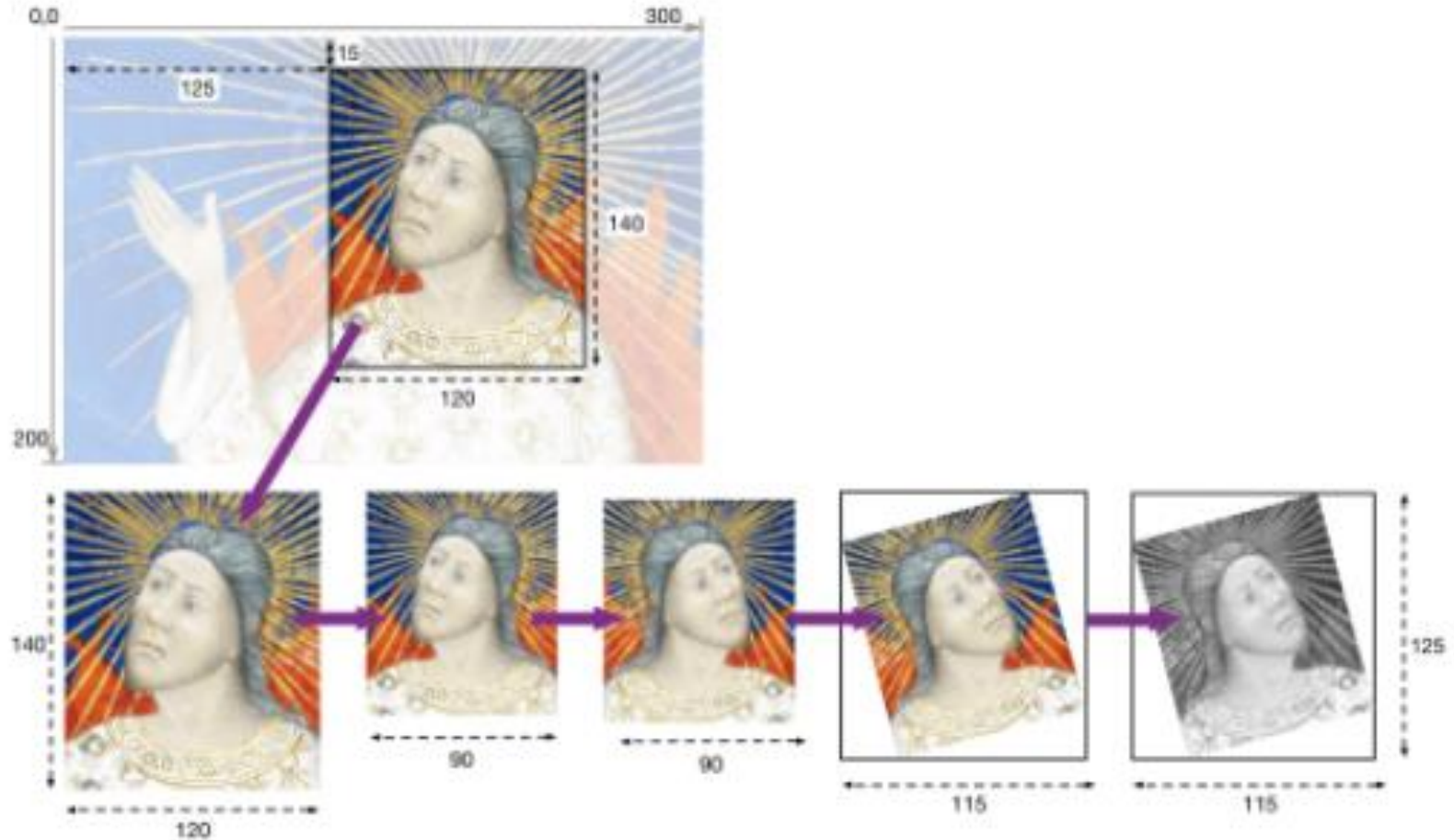


IIIF APIs & Demonstrations

Michael Appleby
Head of Information Technology
Yale Center for British Art
[@mikeapps](#)

**YALE
CENTER
FOR
BRITISH
ART**

Image API



1 region=125,15,120,140 size=90, rotation=!345 quality=gray
.../125,15,120,140/90,/!345/gray.jpg

Victoria & Albert Museum Compariscope: Constable's Hadley Castle

YALE CENTER FOR BRITISH ART Search this site

Collections Exhibitions Calendar Research Education Architecture Visit About Us | News | Get Involved

Home -> Collections -> Search -> Hadleigh Castle

Search Details

Creator John Constable, 1776–1837, British

Title Hadleigh Castle

Alternate Title(s) Sketch of Hadleigh Castle
Verso: Study of Five Horned Castle
Il Castello di Hadleigh

Date 1828 to 1829

Medium Oil on millboard

Dimensions 7 7/8 x 9 7/16 inches (20 x 24 cm) Frame: 10 1/2 x 12 inches (26.7 x 30.5 cm)

Credit Line Yale Center for British Art, Paul Mellon Collection

Accession Number B2001.2.141

Collection Paintings and Sculpture

Link to This Record <http://collections.britishart.yale.edu/vufind/Record/1668069>

Subject architecture | birds | castle | clouds | impasto | landscape | Medieval | meteorology | Norman | ocean | rock | Romantic | ruins | science | sky | storm | tower (building division) | wind

Place Represented England | Essex | Europe | Hadleigh | Hadleigh Castle | Thames | Thames Estuary | United Kingdom



cropped to image, recto, unframed
Public Domain | [Zoom](#) | [Download](#)



[Request additional photography](#)



V&A Search the Collections

Search 1,183,186 objects and 692,211 images from the V&A's collections
Last updated: 10 Oct 2017

Home Search the Archives Contact Back to V&A Homepage

Search

☒ All records
☐ Only records with images
☐ Best quality records including image and detailed description

Or are you looking for [Search the Archives?](#)

[Back](#) [Print this record](#)

Hadleigh Castle, near Southend

Object: Drawing

Place of origin: England (made)

Date: 1814 (made)

Artist/Maker: John Constable, born 1776 - died 1837 (artist)

Materials and Techniques: Pencil

Credit Line: Given by Isabel Constable, daughter of the artist

Museum number: D.234-1888

Gallery location: Prints & Drawings Study Room, level C, case MB2A, shelf DR83

[Download image](#)

More information [Map](#) [Download PDF version](#)

Physical description
Page from a sketch book. Pencil drawing of Hadleigh castle.

Place of Origin
England (made)



Hadleigh Castle, near Southend
John Constable, born 1776 - died 1837

[Enlarge image](#)



YALE CENTER FOR BRITISH ART Search this site

Collections Exhibitions Calendar Research Education Architecture Visit About Us | News | Get Involved

Home -> Collections -> Search -> Hadleigh Castle, The Mouth of...

Search Details

Creator John Constable, 1776–1837, British

Title Hadleigh Castle, The Mouth of the Thames—Morning after a Stormy Night

Alternate Title(s) Hadleigh Castle
Il Castello di Hadleigh

Date 1829

Medium Oil on canvas

Dimensions 48 x 64 3/4 inches (121.9 x 164.5 cm) Frame: 59 1/2 x 76 1/4 inches (151.1 x 193.7 cm)

Credit Line Yale Center for British Art, Paul Mellon Collection

Accession Number B1977.14.42

Collection Paintings and Sculpture

Curatorial Comment In the famous letter of 23 October 1821 to his friend Archdeacon Fisher, John Constable reported: "I have not been idle and have made more particular and general study than I have ever done in one summer, for I am most anxious to get into my London painting room, for I do not consider myself at work without I am before a six foot canvas" (Constable, "Correspondence", p. 76). To some extent, the scale of Constable's great "six-footer" landscape paintings reflected both his high aspirations for landscape in general, and his desire for professional recognition and financial security. Yet Hadleigh Castle, which comes relatively late in the sequence of six-footers, in 1829, is among

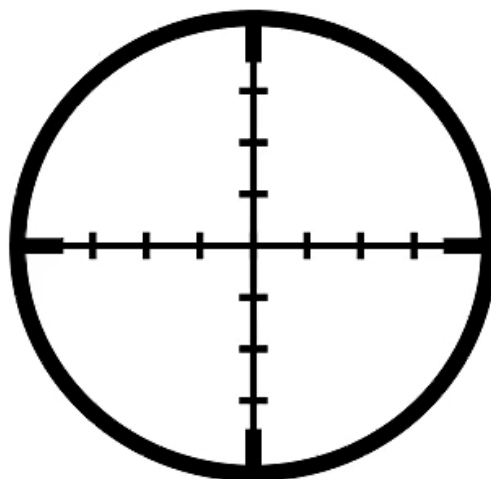


cropped to image, recto
Public Domain | [Zoom](#) | [Download](#)



[Request additional photography](#)





I



Preview

Constable – the process

V&A

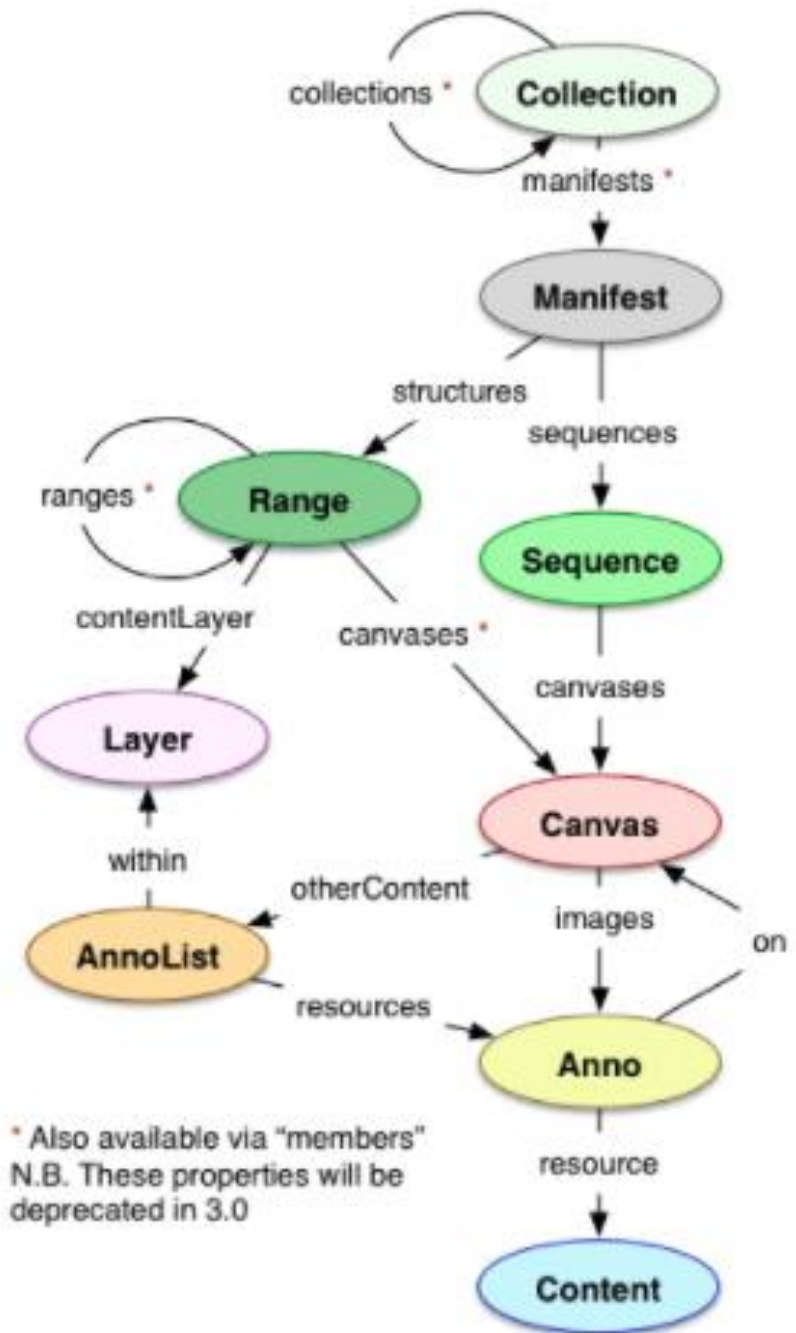
In preparation for the V&A's 2014 major exhibition, 'Constable: Making of a Master' a number of the Museum's oil sketches by John Constable were remounted and reframed. The process revealed many surprising discoveries, including a previously unrecorded work. hidden by an old canvas lining.

SHARE



Presentation

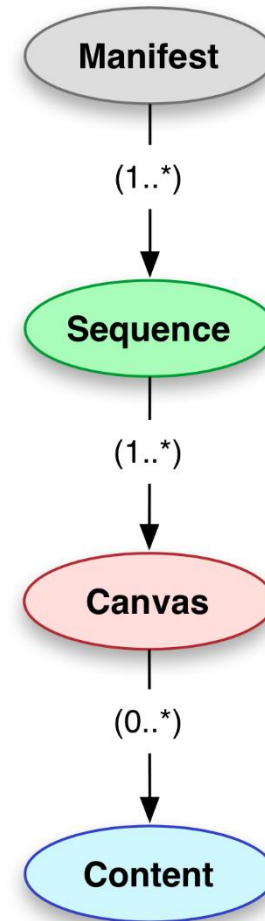
“The objective of the IIIF Presentation API is to provide the information necessary to allow a rich, online viewing environment for primarily image-based objects to be presented to a human user, likely in conjunction with the IIIF Image API.”



Presentation API

The IIIF Manifest contains the data necessary to represent an object.

“**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.”



Presentation API



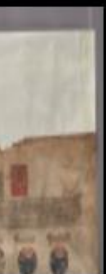
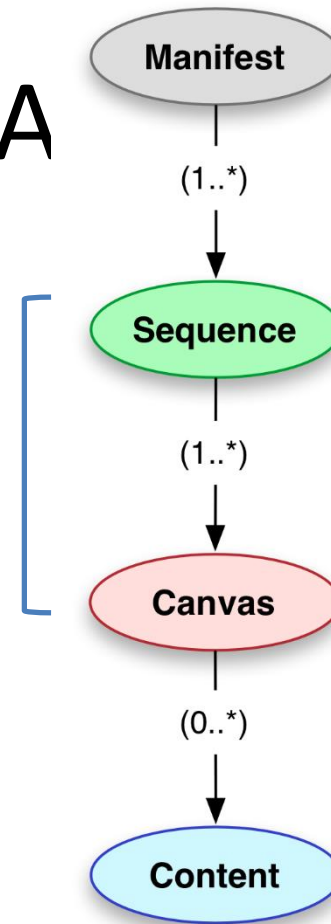
A Canvas is a coordinate space with X and Y dimensions (width and height).

Images are associated with the Canvas via Open Annotation.
(In Presentation API 3.0, W3C Web Annotations will be used.)

Presentation A

A Manifest contains one or more Sequences.

Each Sequence contains an ordered list of Canvases.



(seq. 2)



(seq. 3)



(seq. 4)



(seq. 5)



(seq. 6)

Presentation API: Other Properties

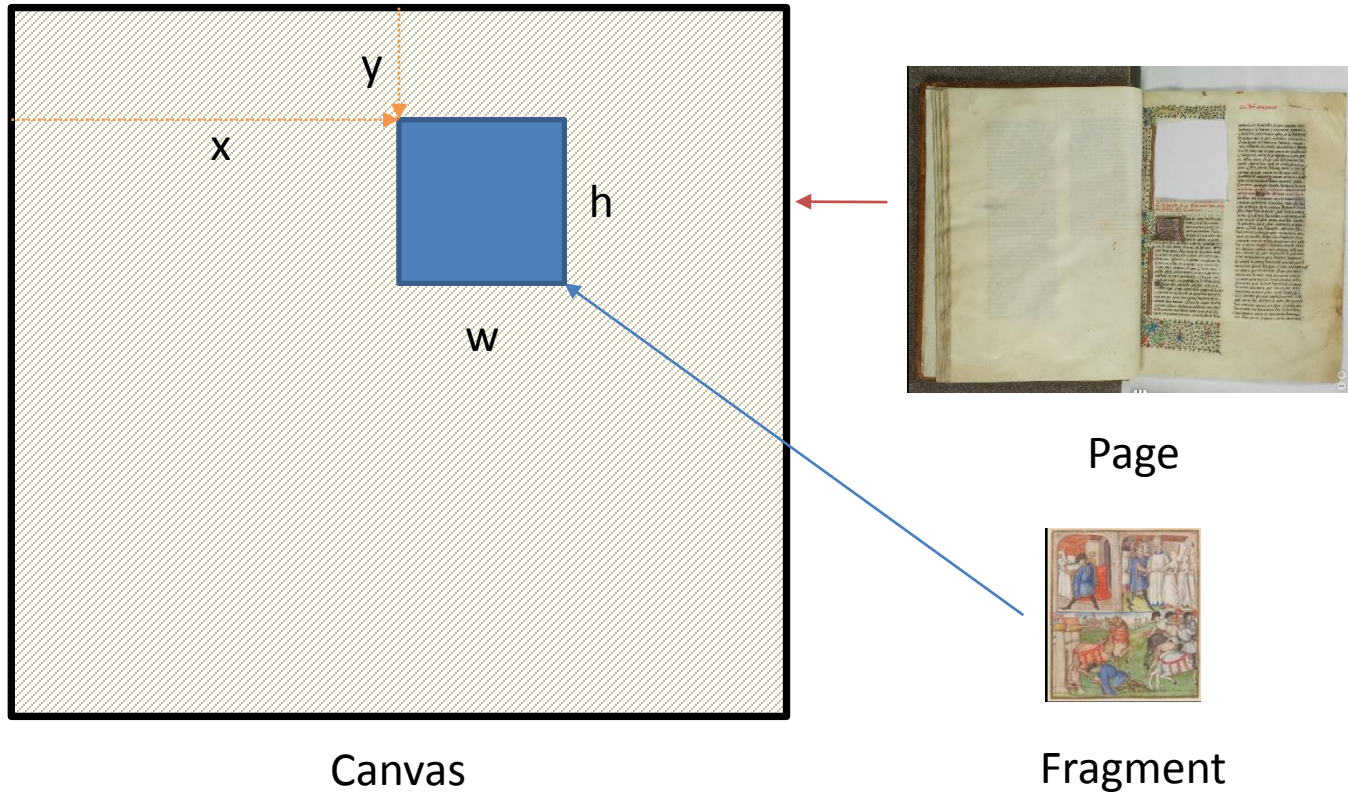
- Descriptive Properties
(label, metadata, description, thumbnail)
- Rights and Licensing Properties
(attribution, license, logo)
- Technical Properties
(viewing direction, viewing hints, width, height, ...)
- Linking Properties
(related, see also, start canvas, within, ...)
- Paging Properties
(first,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

Audio-Visual

- IIIF Presentation API 3.0 will expand the notion of a Canvas from an x,y space by adding a time dimension
- This will allow for annotation of audio and video onto the Canvas at specific points in time
- Images, text, and other content can also be annotated on to the Canvas
- The video on the following slide shows the combination of video, still images, and text, all annotated on to a single canvas.



Presentation API: Reconstruction of a Manuscript Folio



Demonstration: Manuscript Reconstruction

Reconstructed manifest (partial): Grandes Chroniques de France (Châteauroux, BM, ms 5)

Index Search Layers

Images for f. 033v - 034

No Label ☒ visible opacity (100)%

No Label ☐ visible opacity (0)

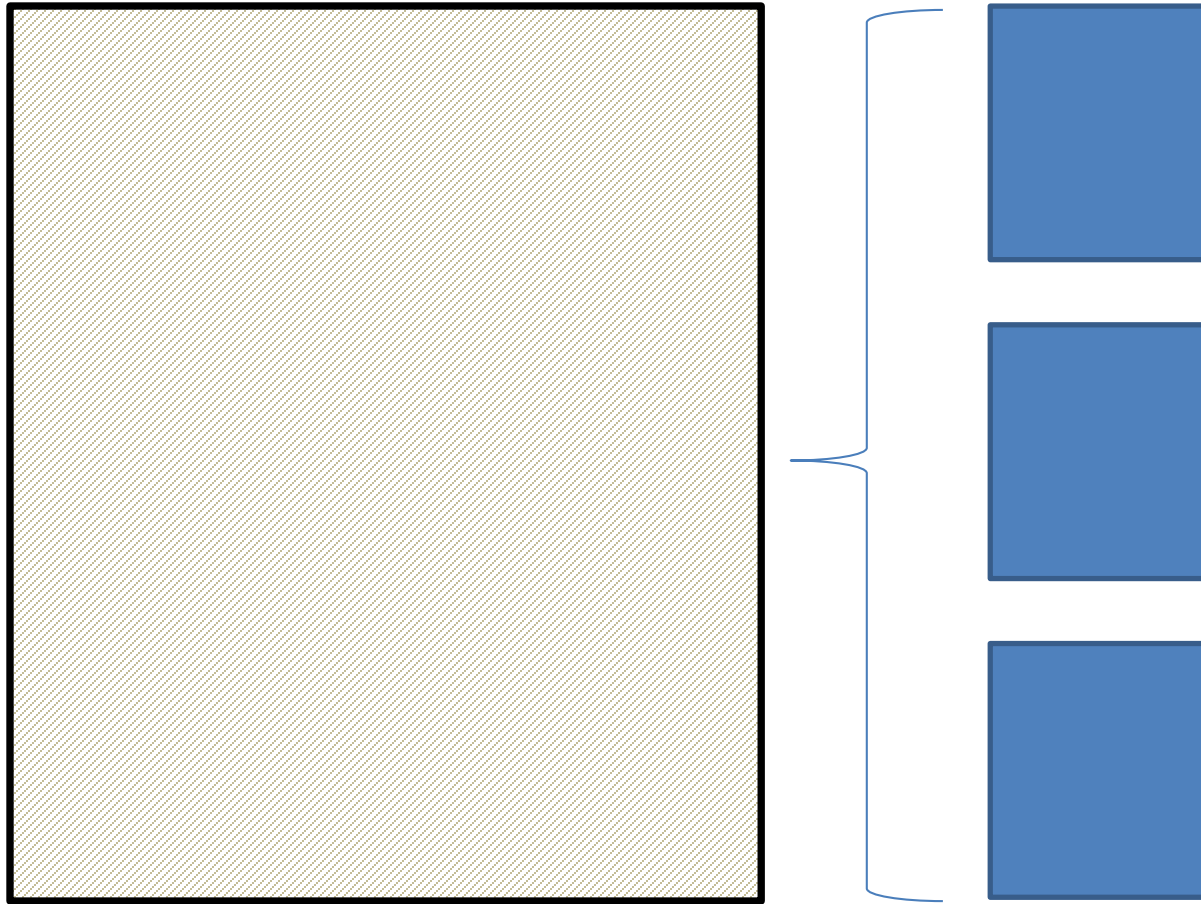
Change Layout Full Screen

Navigation icons: back, forward, search, etc.

Manuscript pages displayed: f. 033v (left) and f. 034 (right). The right page (f. 034) features a large illuminated initial 'P' and text in French.

Thumbnail strip at the bottom showing a sequence of manuscript pages: f. 033v, f. 034v, f. 045v, f. 046v, f. 053v, f. 054v, f. 067v, f. 068v.

Multiple Images on a Single Canvas



Canvas

Images

Demonstration: Multispectral Images

[illegible]

Demonstration: X-Ray and Conventional Photography

Change Layout Full Screen

Sir Joshua Reynolds RA, 1723-1792, British, Mrs. Abington as Miss Prue in "Love for Love" by William Congreve, 177...



cropped t...



recto, unfr...



framed, re...



framed, ve...



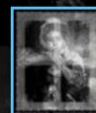
detail, recto



Composite...



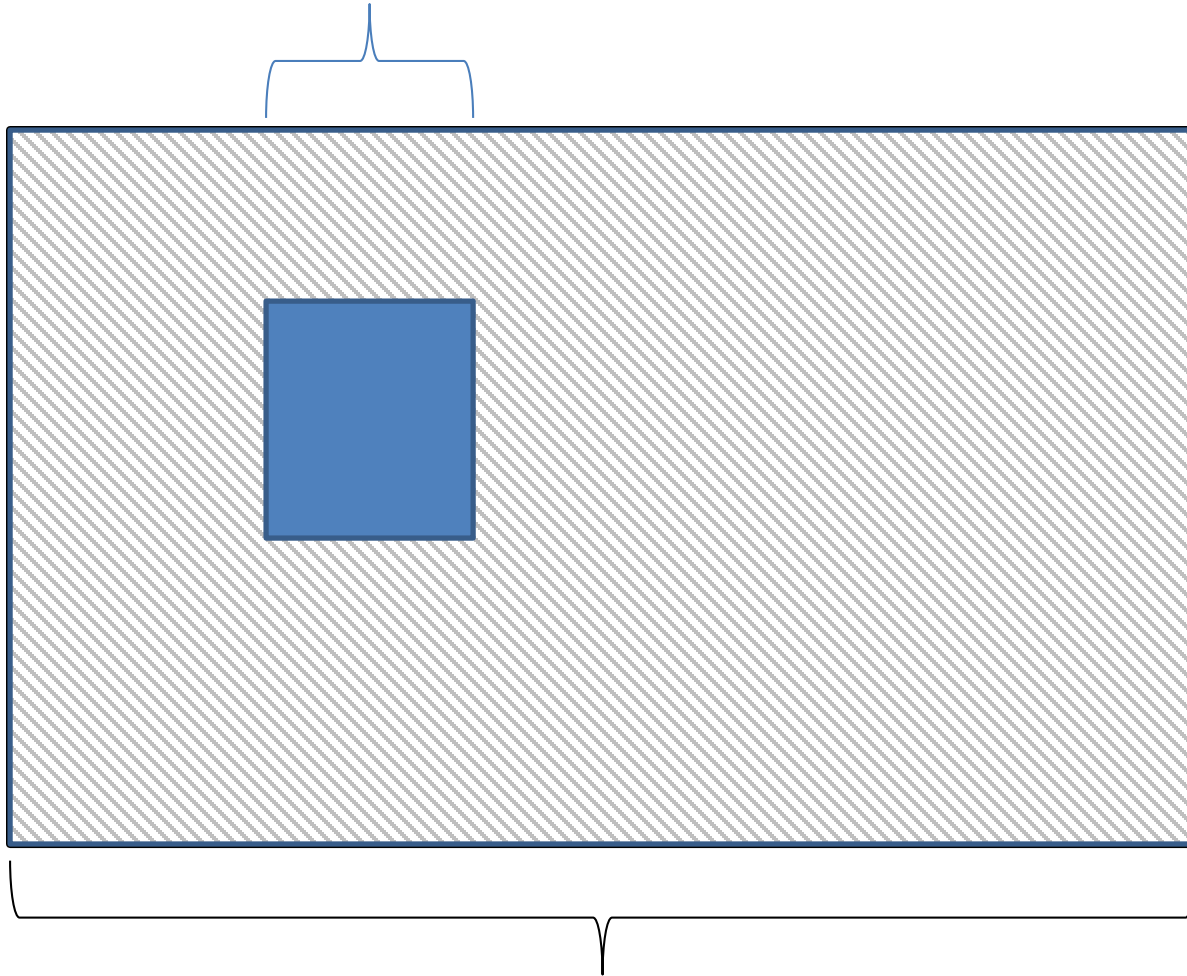
cropped t...



Conservati...

Demonstration: Detail Images and Deep Zoom

Detail image width: 5284 pixels



Base image width: 6258 pixels

Demonstration: Detail Images and Deep Zoom



IIIF – Get Involved



How to Participate

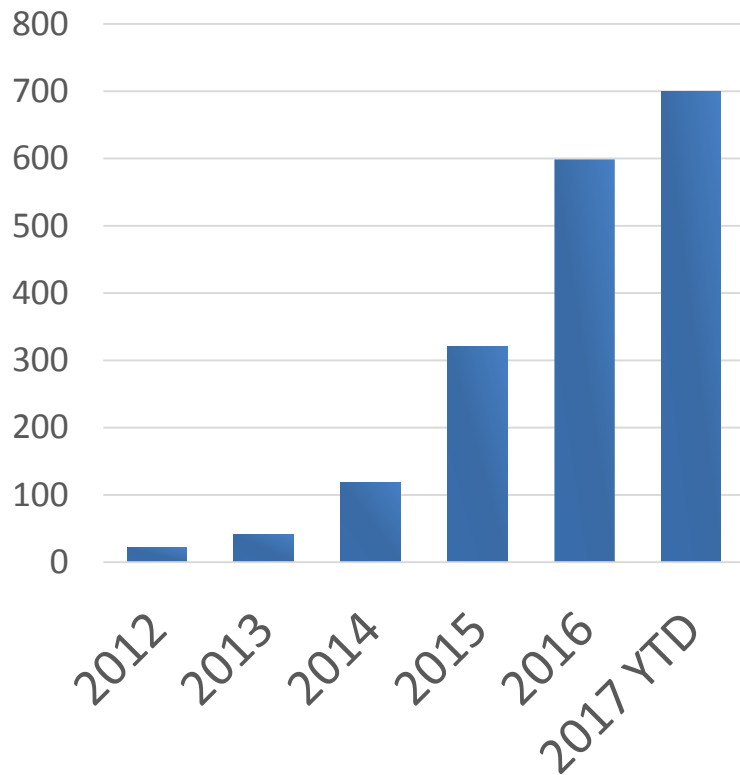
1. Use IIIF-compatible software and content
2. Expose your collections via IIIF
3. Make your software IIIF-compatible
4. Ask your software suppliers to become IIIF-compatible
5. Join IIIF communication channels - [#japan](#) on Slack
6. Sign up for IIIF-C

IIIF Communication Channels

- IIIF Website: <http://iiif.io>
- iiif-discuss@googlegroups.com
- IIIF Slack Team – Join at <http://bit.ly/iiif-slack>
- Twitter: [@iiif_io](https://twitter.com/iiif_io) and [#IIIF](https://twitter.com/iiif)
- Awesome-IIIF on [Github](#)
- IIIF [YouTube Channel](#)
- IIIF Events
- Contact me: srabun@iiif.io

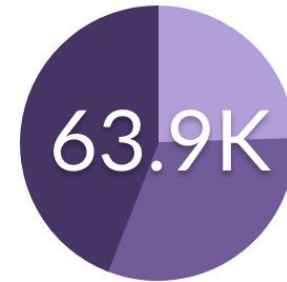
Communication

IIIF-Discuss Google Group

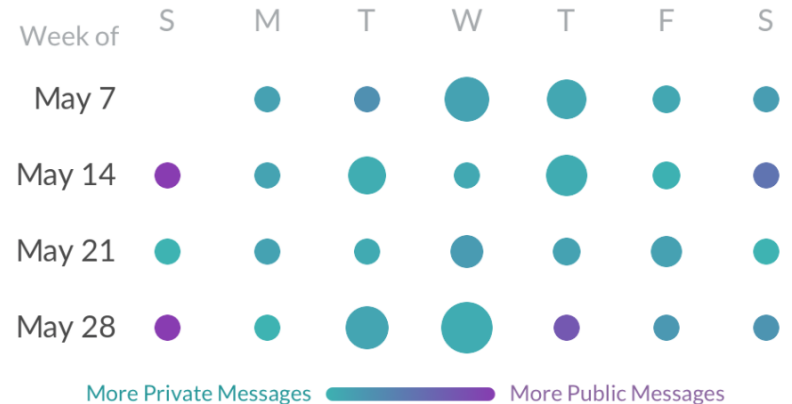


<https://groups.google.com/forum/#!forum/iiif-discuss>

IIIF Slack



Total Messages



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

#japan in IIIF Slack

iif 74 tcramer

#japan ☆ 14 1 Add a topic 🔍 Search @ ☆ ⋮

(International Image Interoperability Framework) に関してこのブログで色々記事を書いてきましたが、それを中心にしつつ、他の方々が書かれたものも含め、日本語の記事に関して情報をまとめてみました。ご参考になりましたら幸いです。なお、英語を読むことに支障がない人は、ぜひ「Awesome IIIF」をご覧ください。IIIFとは何か 今、まさに広まりつつある国際的なデジタルアーカイブの規格、IIIFのご紹介「デジタルアーカイブ」における画像共有のための国際規格IIIFについて...

Oct 2nd at 8:43 AM

👍 3

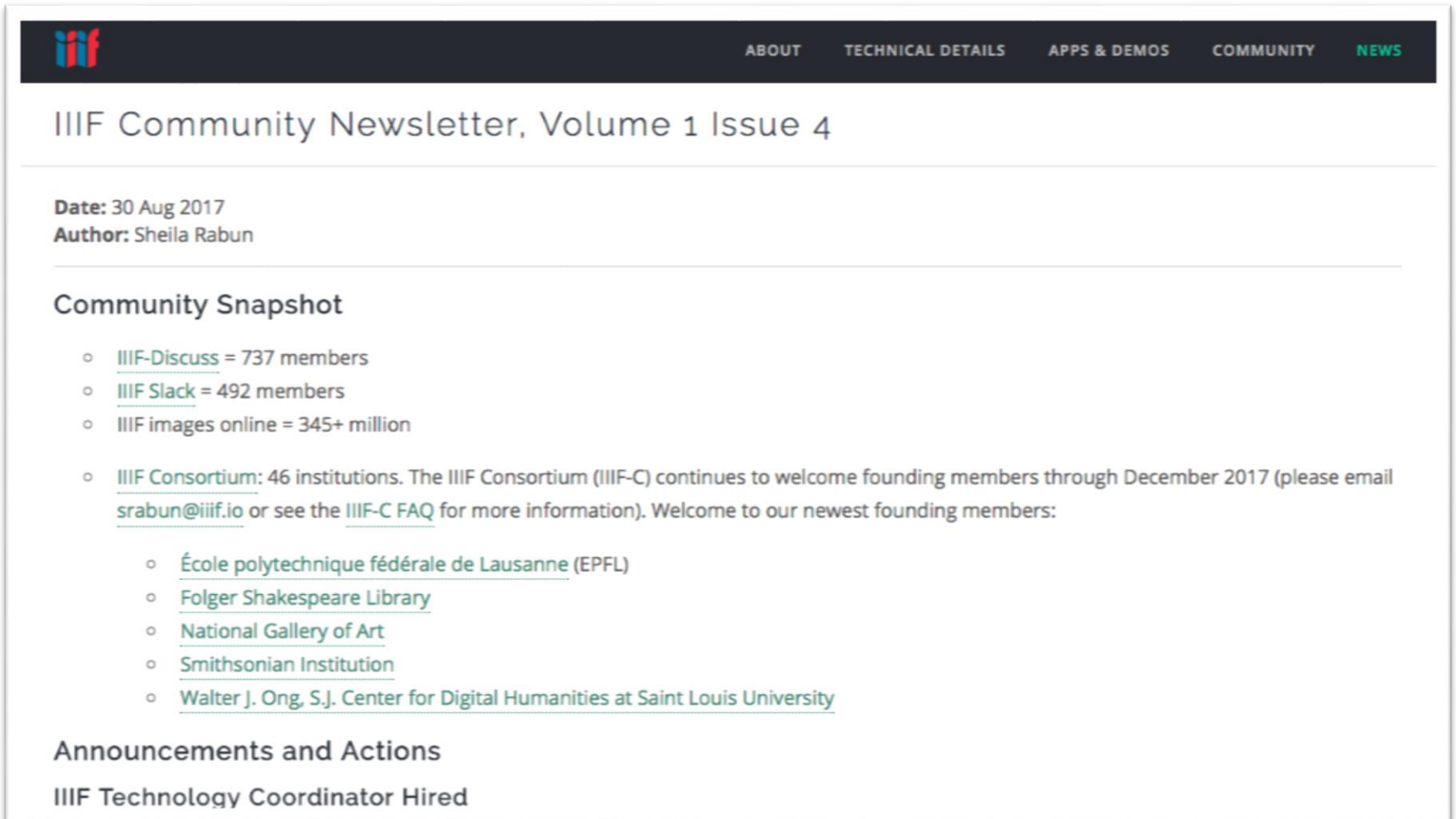
knagasaki 7:40 AM ☆
日本文化コンテンツを含む海外のIIIF対応サイトもリストを共有しておきたいですね。今把握している範囲では、
フランス国立図書館 gallica
ヴァチカン図書館
ブリティッシュ・コロンビア大学図書館
スミソニアン協会図書館
といったところですが、ハーバードも持っていそうな気がします。（ハーバードのはまだ中国のものしか把握できてません）

takaxp (Takaaki Ishikawa) 7:50 AM
本チャンネルを作ろうとの議論において、iif.jp に Slack（及びこのチャンネル）への Instruction があれば、国内の皆様が幸せになれそうとの意見がだされておりました。Twitter であれば、固定ツイートに設定しておけば、目立つ状態を維持できそうです。

+ Message #japan @ 😊

IIIF Community Newsletter

- Learn about current activities – <http://iiif.io/news>



The image shows a screenshot of the IIIF Community Newsletter, Volume 1 Issue 4. The header features the IIIF logo on the left and navigation links (ABOUT, TECHNICAL DETAILS, APPS & DEMOS, COMMUNITY, NEWS) on the right. The main title is "IIIF Community Newsletter, Volume 1 Issue 4". Below this, the date (30 Aug 2017) and author (Sheila Rabun) are listed. The "Community Snapshot" section includes a bulleted list of statistics and new members. The "Announcements and Actions" section mentions the hiring of a IIIF Technology Coordinator.

IIIF Community Newsletter, Volume 1 Issue 4

Date: 30 Aug 2017
Author: Sheila Rabun

Community Snapshot

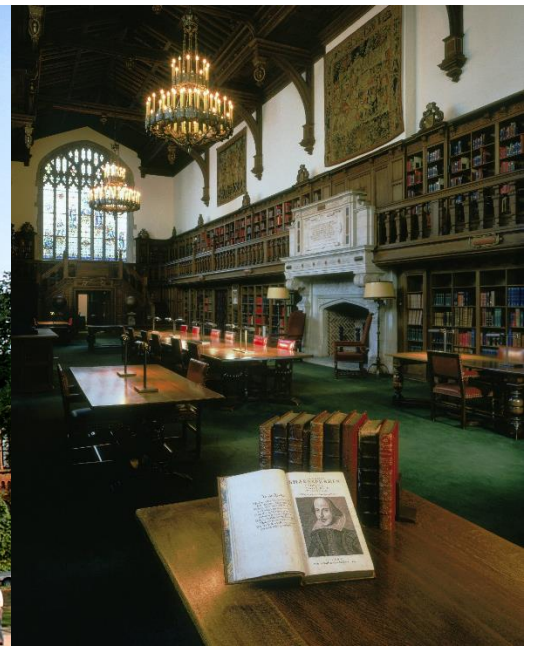
- [IIIF-Discuss](#) = 737 members
- [IIIF Slack](#) = 492 members
- IIIF images online = 345+ million
- [IIIF Consortium](#): 46 institutions. The IIIF Consortium (IIIF-C) continues to welcome founding members through December 2017 (please email srabun@iiif.io or see the [IIIF-C FAQ](#) for more information). Welcome to our newest founding members:
 - [École polytechnique fédérale de Lausanne \(EPFL\)](#)
 - [Folger Shakespeare Library](#)
 - [National Gallery of Art](#)
 - [Smithsonian Institution](#)
 - [Walter J. Ong, S.J. Center for Digital Humanities at Saint Louis University](#)

Announcements and Actions

IIIF Technology Coordinator Hired

2018 IIF Conference in Washington, DC

- May 21-25, 2018
- Co-hosted by the **Library of Congress**, **Smithsonian Institution**, and **Folger Shakespeare Library**



IIIF Consortium

- <http://iiif.io/community/consortium>
- 47 institutional members
- Sustainability and steering for IIIF
- Additional Founding Members – through 2017
- Leading a revolution in digital access

Please consider joining!

IIIF-C Founding Members to Date

- Artstor
- Bavarian State Library (BSB)
- British Library
- Brown University
- Cambridge
- Chinese U. of Hong Kong
- Cornell
- Data Futures
- Ecole Polytechnique Federale de Lausanne (EPFL)
- Europeana
- Folger Library
- J. Paul Getty Trust
- Johns Hopkins
- Harvard University
- Hong Kong University
- Indiana University
- **Kyoto University Library Network**
- MIT
- National Gallery of Art (US)
- National Library of France
- National Library of Israel
- National Library of Norway
- National Library of Poland
- National Library of Scotland
- New York University
- North Carolina State University
- Ohio State University
- Oxford
- Penn State University
- Princeton
- Saint Louis University
- Smithsonian Institution
- Stanford
- University of Basel
- University of Edinburgh
- University of Göttingen
- University of Leiden
- University of Michigan
- University of Notre Dame
- University of Pennsylvania
- **University of Tokyo**
- University of Toronto
- Vatican Library
- Wellcome Library
- Yale University
(incl. Yale Center for British Art)



International
Image
Interoperability
Framework

iiif.io

 @iiif_io