

International Image Interoperability Framework

Japan - October 2017



Michael Keller Stanford University

Tom Cramer Stanford University

> Sheila Rabun IIIF

Stu Snydman Stanford University

Jack Reed Stanford University

> Mike Appleby Yale University



Where did it come from?

E/PC/T/C.II/
UNITED NATIONS
ECONOMIC AND SOCIAL COUNCIL
PREPARATORY COMMITTEE
of the
그는 그는 것 같은 것 같
INTERNATIONAL CONFERENCE ON TRADE AND EMPLOYMENT
Verbatim Report
Verbaulit Rejort
of the
FIFTH MEETING
of
PROCEDURES SUB-COMMITTEE
지 것 같은 것 같아요. 요즘 것은 한 것은 것의 방법과 알았을까?
of
COMMITTEE II
영상 그는 것 같은 것 같은 것 같이 같이 많이 많이 많이 많이 많이 많다. 것 같은 것 같
held at
Church House, Westminster, S.W.1.
on
Monday, 4th November, 1946
THINK FOR PARTIES FAIL

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

2.

Manuscript 53 | View manuscript long description

Title: The Peterborough Psalter and Bestiary Foliation: ff. a-d + i-ii + 1-2 + 4 + 3 + 5-210 + e

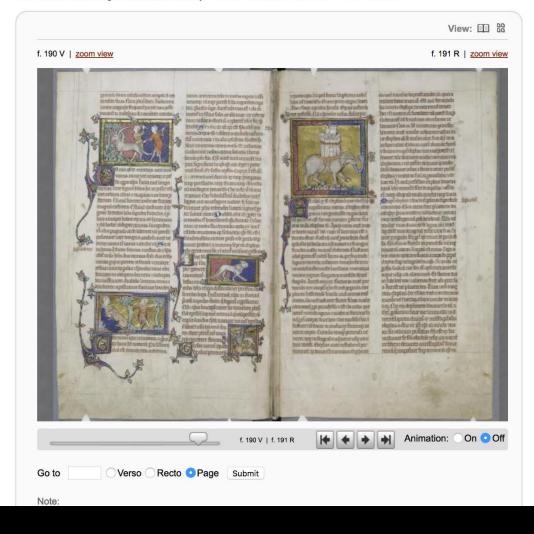




Image-based Global resources: books, images, newspapers, manuscripts, International scrolls, maps, music, art, Image et al. Interoperability Framework **APIs Mutually** Software usable; Content simpatico Community

Images are fundamental information carriers for cultural heritage





Bagalla Ballino Me









But image delivery is...

...too hard ...too slow ...too idiosyncratic ...too disjointed ...too ugly

...and we all suffer because of it.

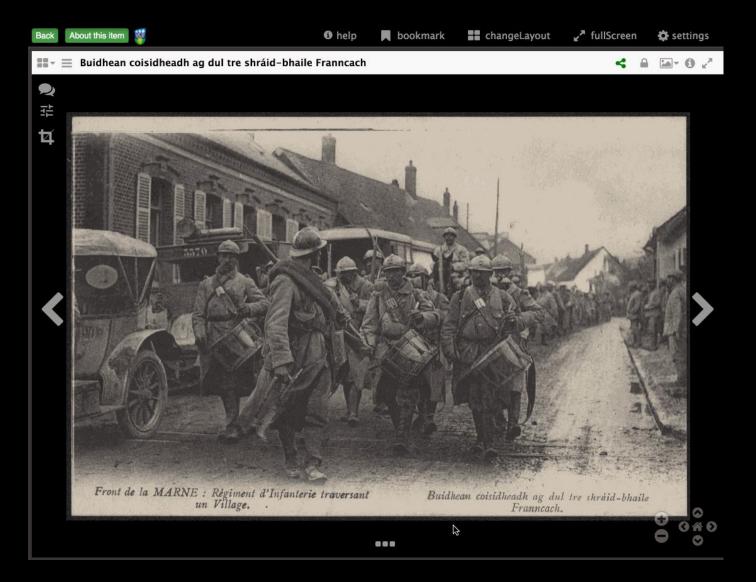
What is a second second

Deep zoom with large images



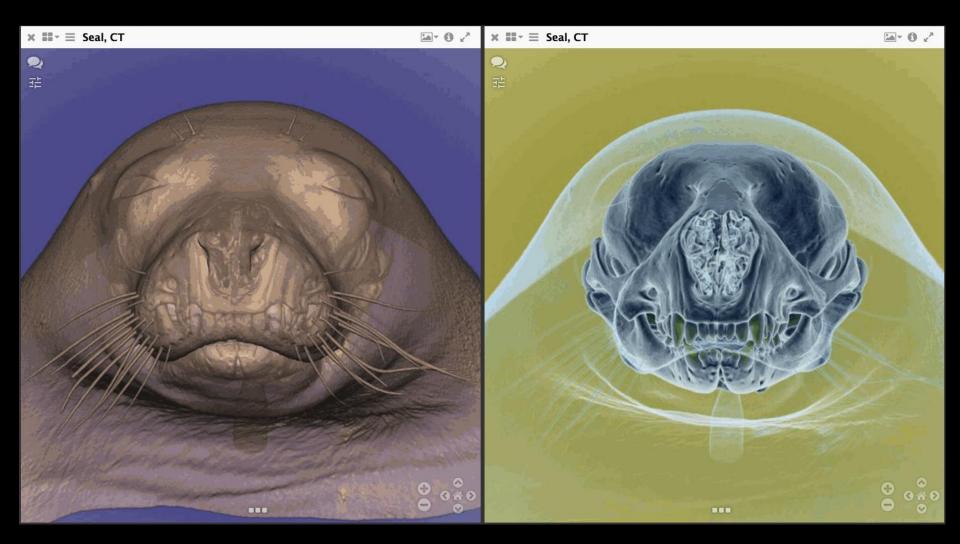
Stanford University | https://purl.stanford.edu/hs631zg4177

Cite and share (even regions of interest)



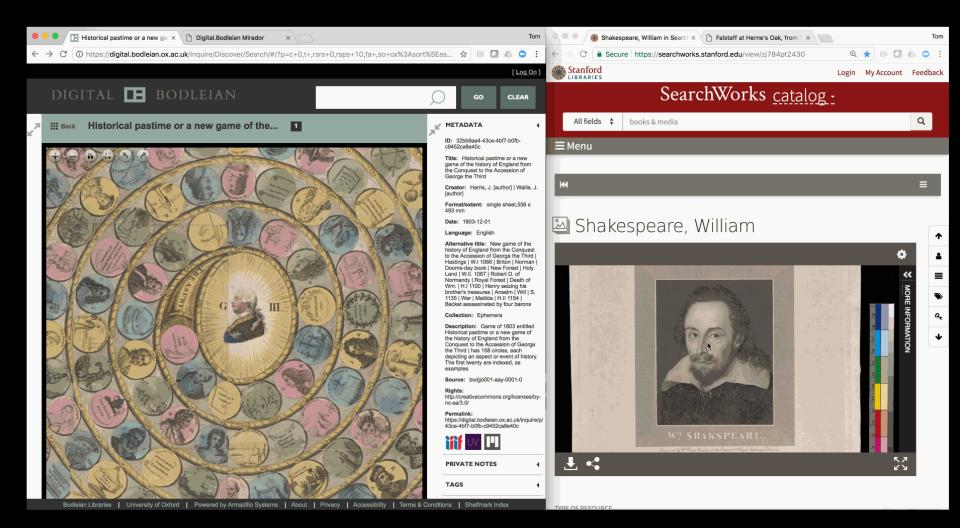
University College Dublin | https://doi.org/10.7925/drs1.ucdlib_53396

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



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

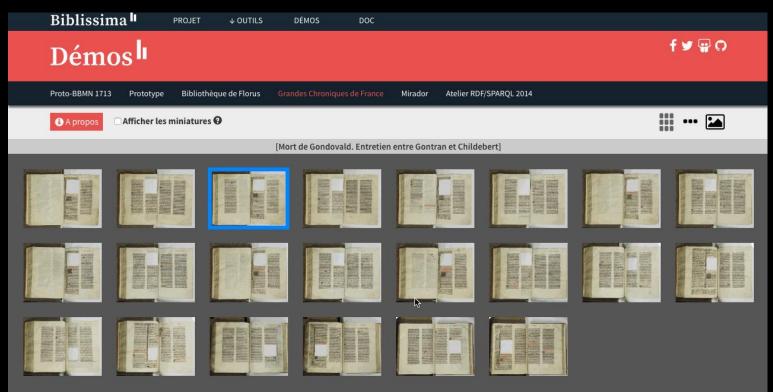
Folio in BVMM Miniature in the BNF



Su tor chilperich

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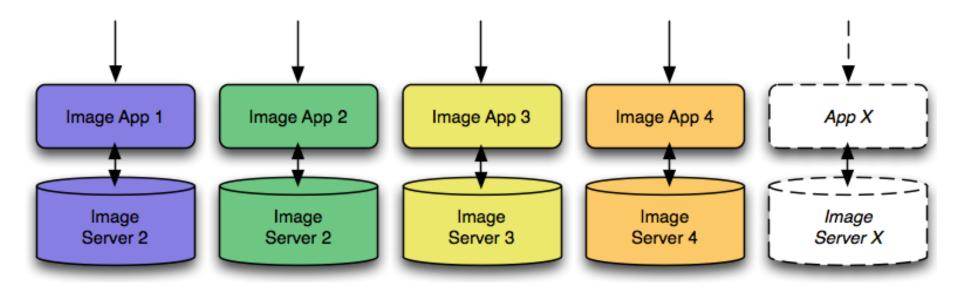
Reunify



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



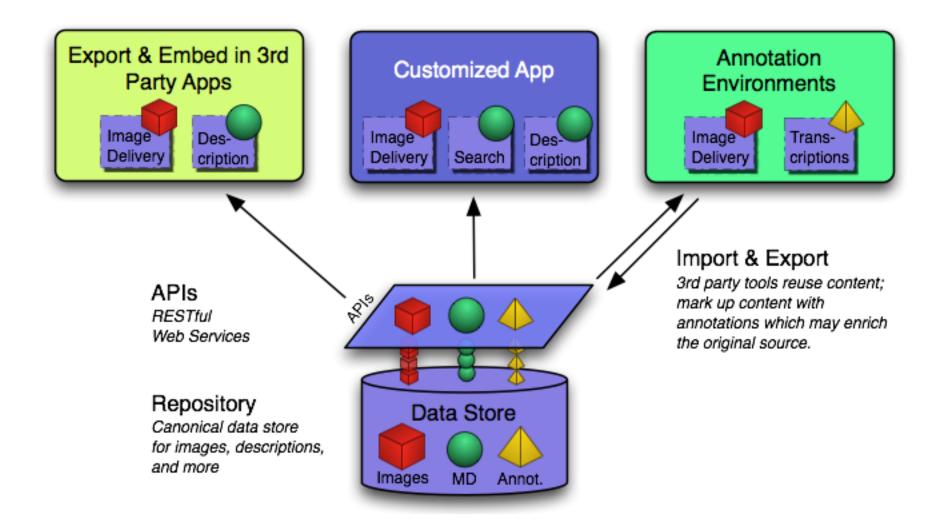
A world of silos & duplication



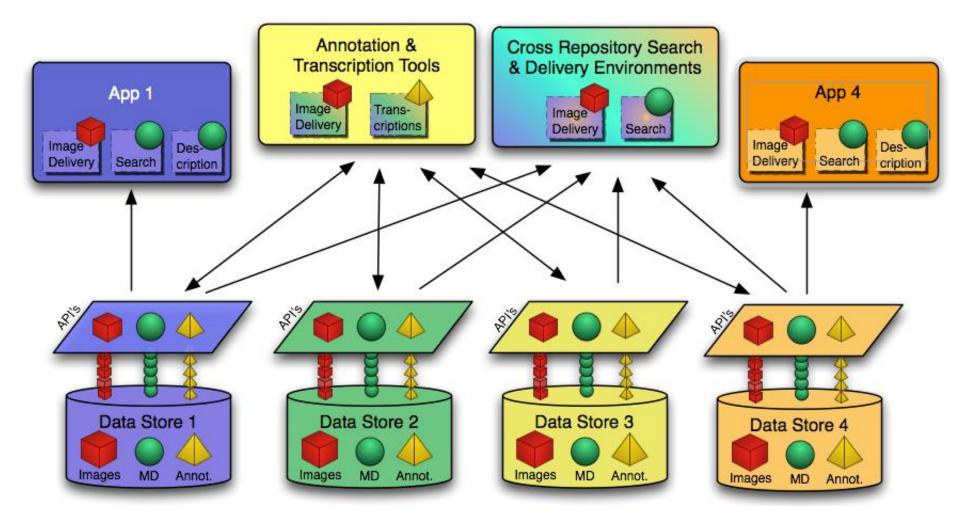
- Every site a silo (\rightarrow no interoperability)
- Every app a one-off (\rightarrow overhead to code and keep)
- Every user forced to cope (→ many UIs, little integration)



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, implements them in Software, and exposes interoperable Content

IIIF: Two Core APIs

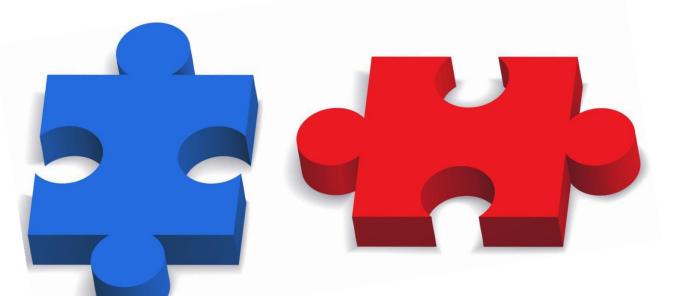


Image API

"get pixels" via a simple, RESTful, web service

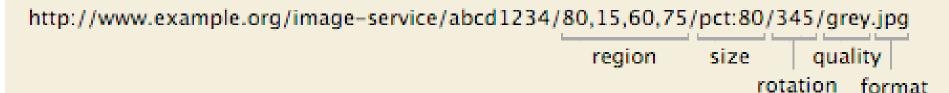
Presentation API

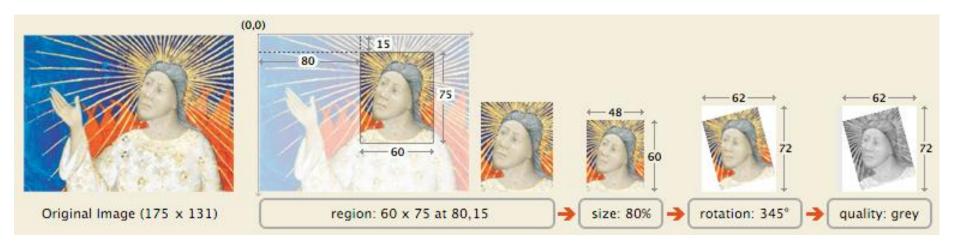
Just enough metadata to drive a remote viewing experience



Image Delivery API

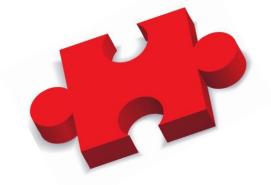
Order of Implementation

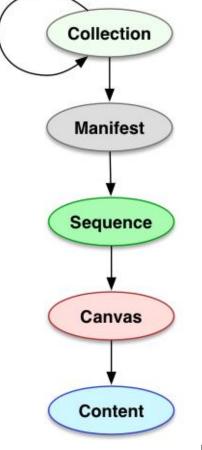




http://iiif.io/api/image/2.1/

Presentation API





Structure

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

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

Image + Presentation = Object

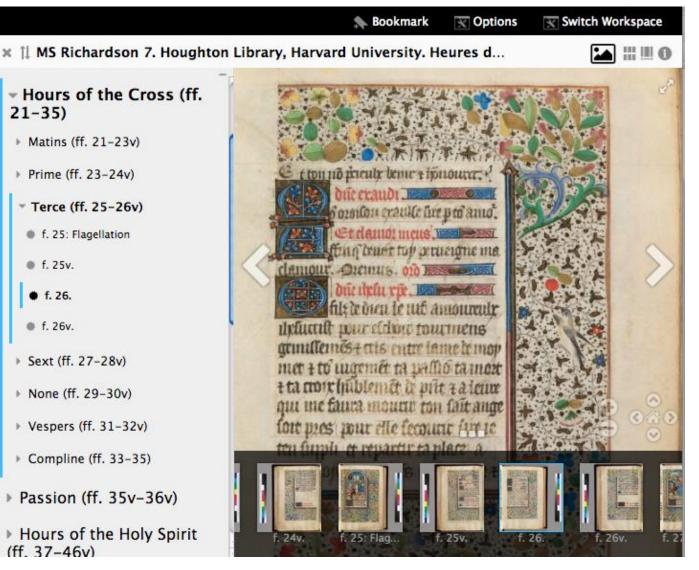
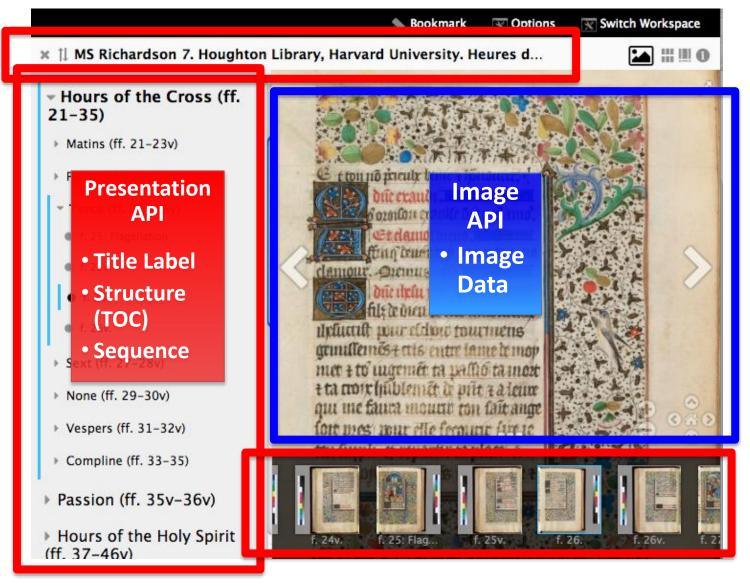


Image + Presentation = Object

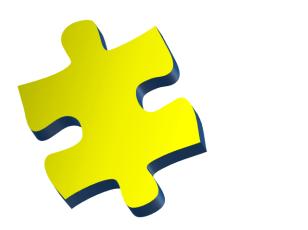


IIIF: Three More APIs



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





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

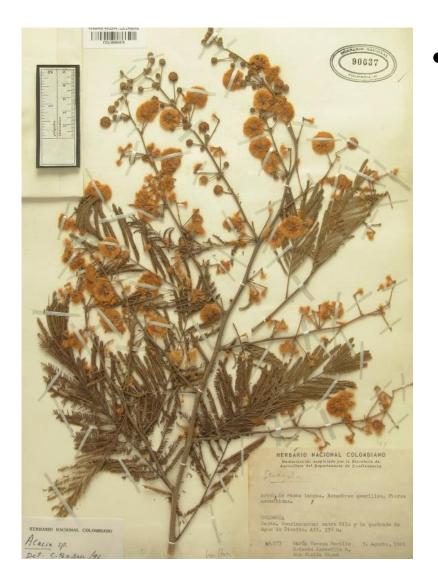


IIIF Content - Texts

 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**

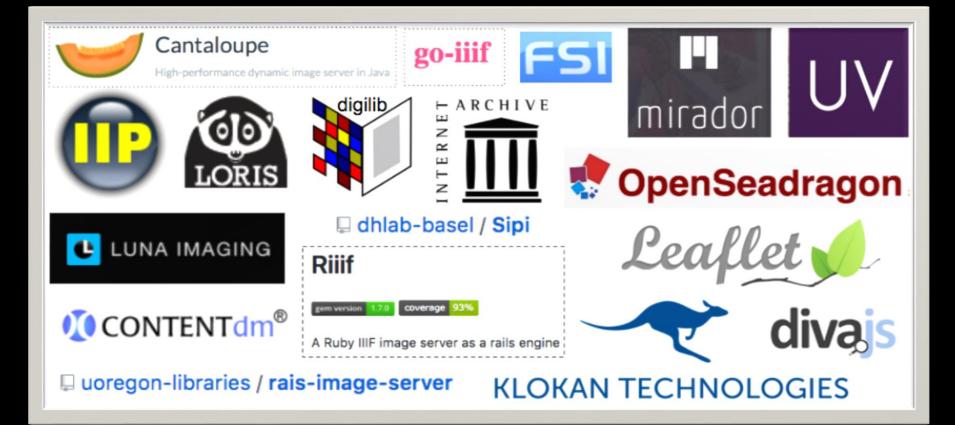


That's great.

How do I use it?

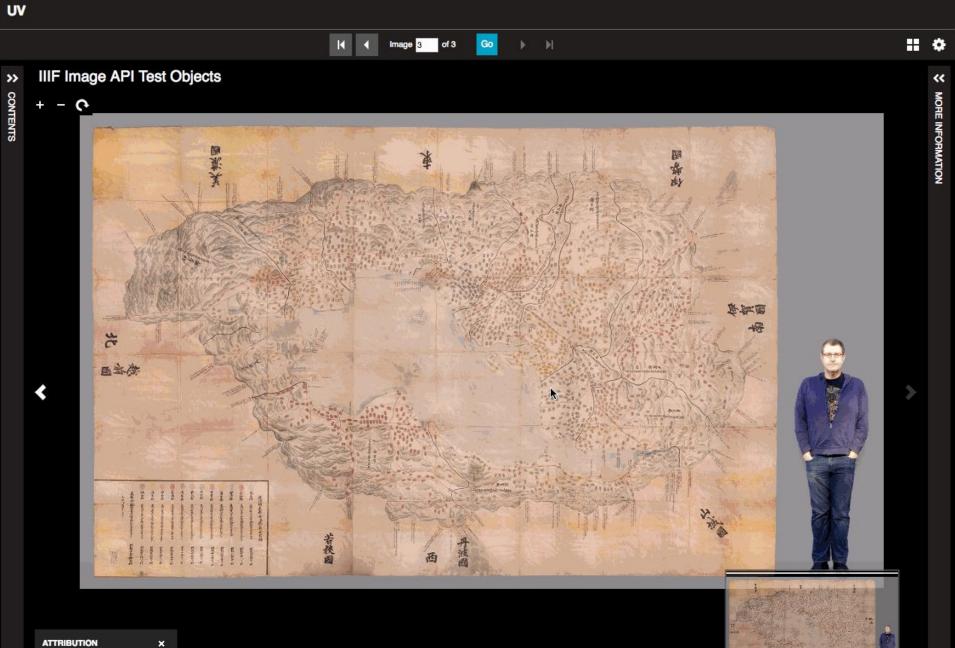
IIIF Viewers

Featuring the Universal Viewer & Mirador







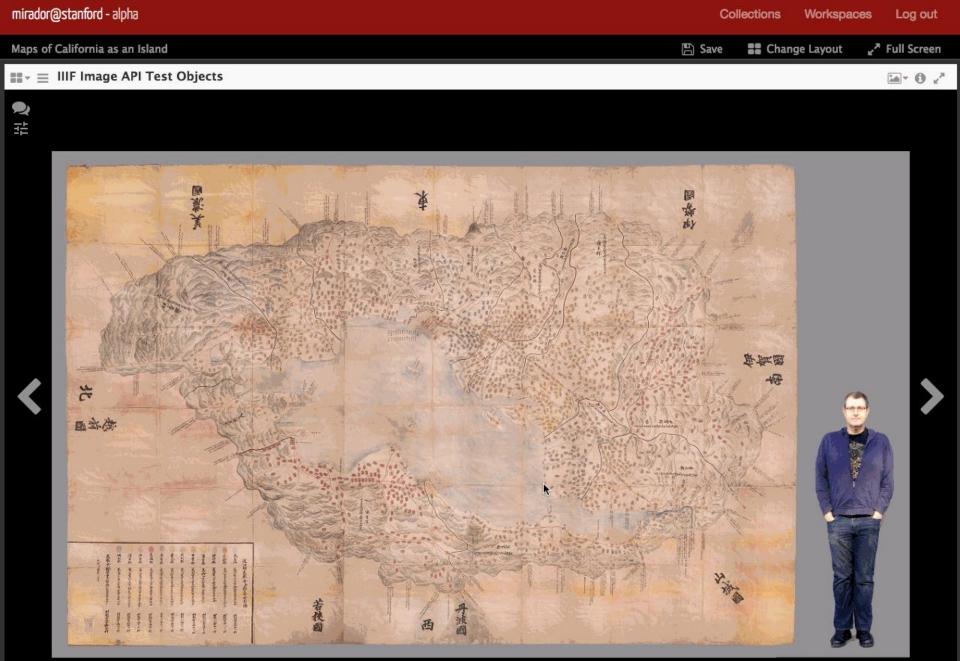


Provided by the Stanford University Libraries

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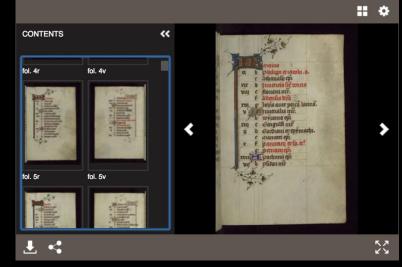


Universal Viewer = many formats

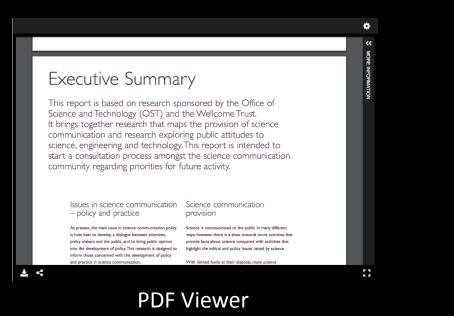


MORE INFORMATION

Simple Image Viewer

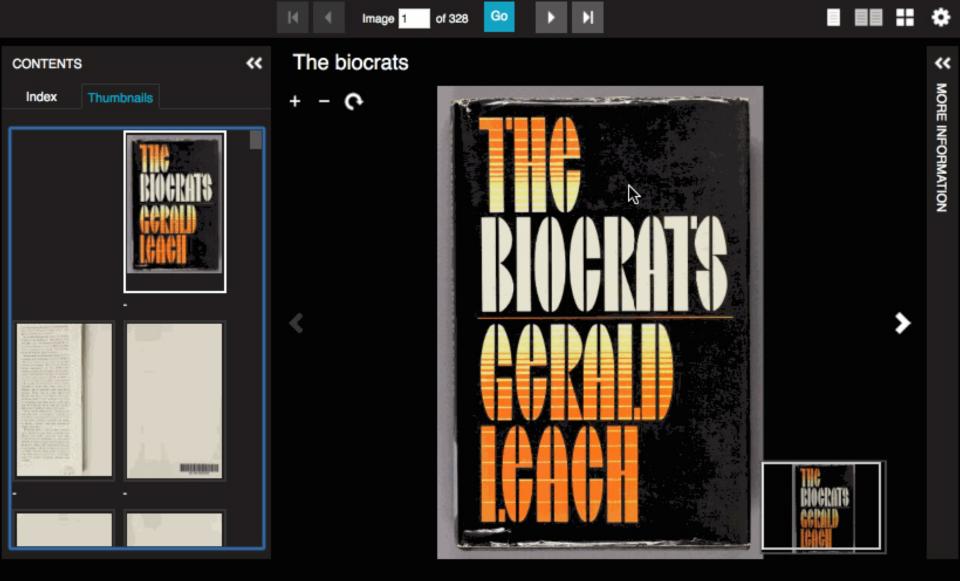


Book / Manuscript Viewer





Audio/Video Player





hc941fm6529





ATTRIBUTION

×

Stanford University

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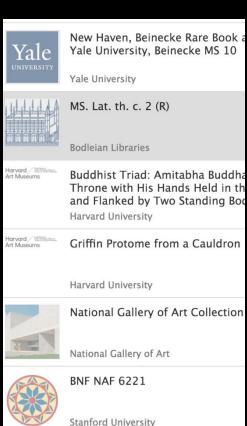
Universal Viewer Roadmap

- Adoption and support by
 - Digirati & Holoscene
 - Wellcome Library
 - National Library of Wales
 - British Library
 - Stanford University
 - Princeton University
 - Villanova University
 - National Library of Norway

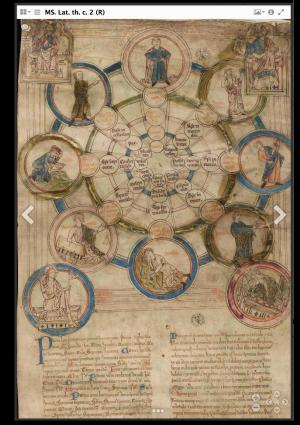
- Future directions
 - Adoption of IIIF Presentation API v 3.0
 - Enhanced support for PDF, 3D objects, Office documents.
 - Improvements to UI, accessibility.



Mirador: 3 Primary Functions



📲 Change Layout 🛛 🦨 Full Screen



■ → = Peter Gaspar Scheemakers, 1691-1781, Fl...

≫ ▶ 🗆 ○ ७ ~ ♀ 🚈 💵 💵

Load



Annotate

How people are using Mirador...

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

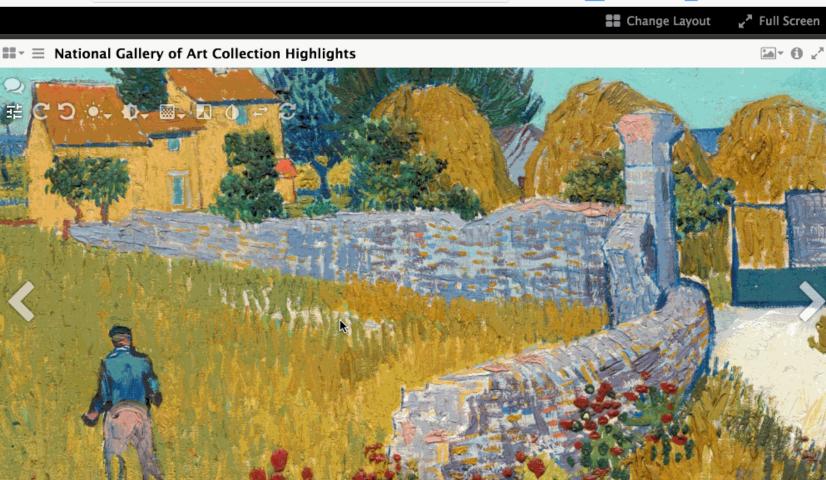


- Embedded
- Stand Alone
- Scholars Workbench

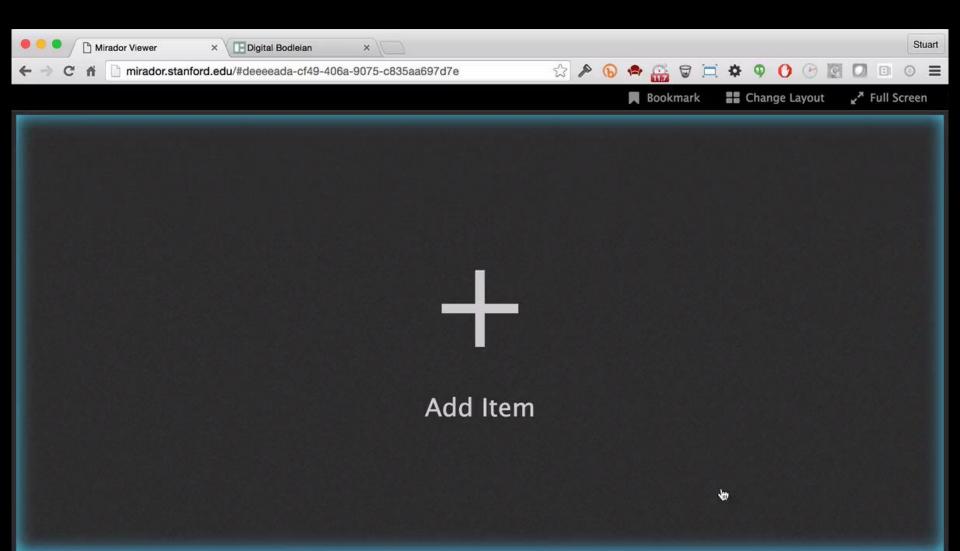
Zoom and analyze images

← → C ☆ ① projectmirador.org/demo/

☆ 🔌 😡 🖋 🚟 🗟 🗖 🗮 🔮 🔂 💿 💿 💶 🗄



Compare & Contrast



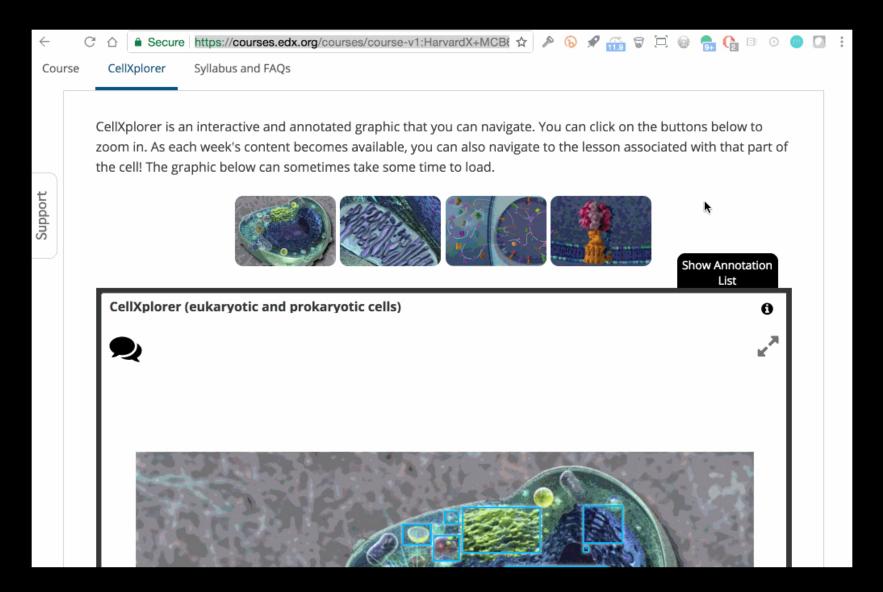
Annotate

Santa Maria Rotonda (Pantheon)

Santa Maria Rotunda (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

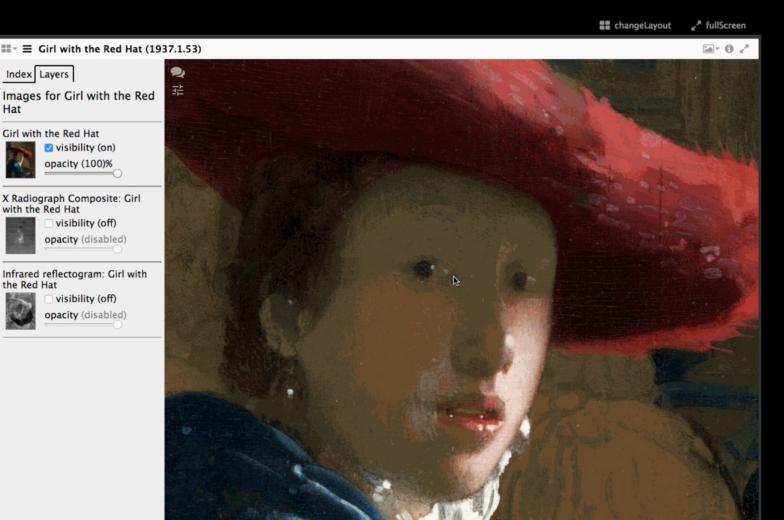
Annotate



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

Analyze layers

Hat



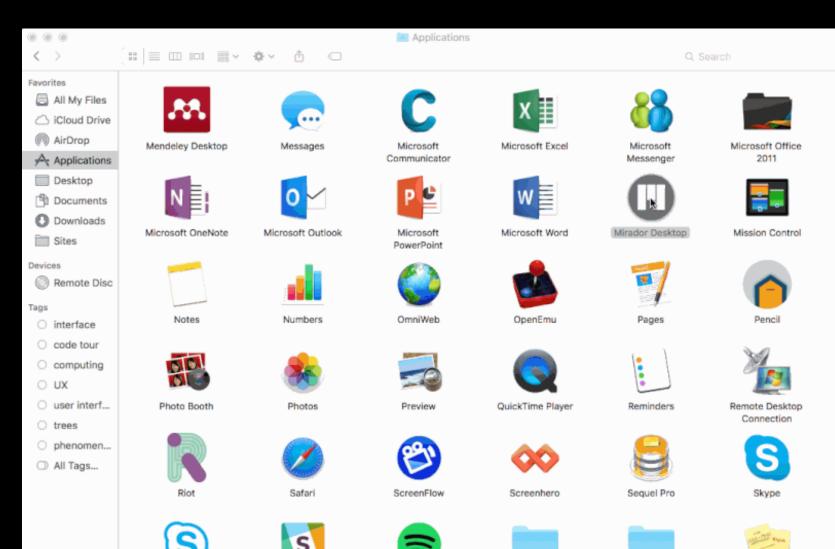
Vermeer's Girl with the Red Hat, from the National Gallery of Art (US)

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

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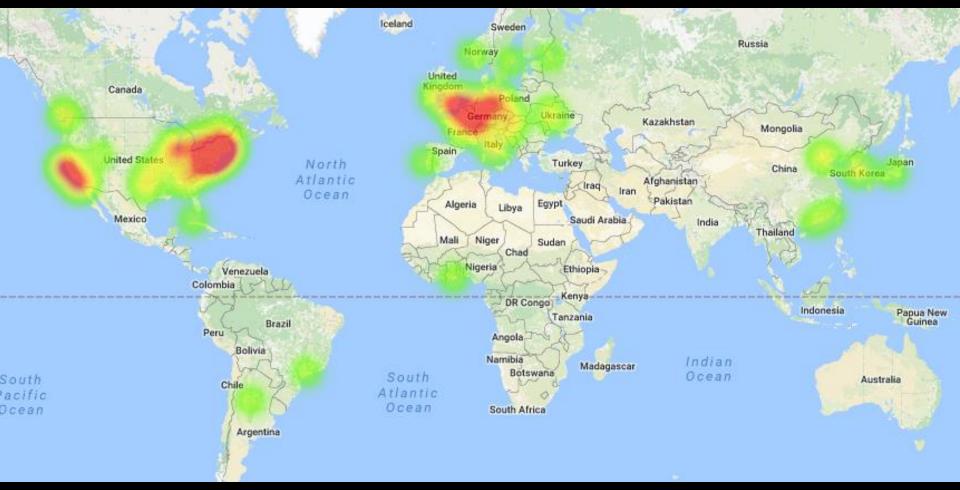
Mirador Desktop



1 of 122 selected, 24.88 GB available

-1

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 y 45 contributors representing 63,941 lines of co

... 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 (CDCOMO

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 \bullet
- **BnF/Biblissima**
- BSB
- University of Tokyo
- University of Toronto igodot
- 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-IIIF and integration in other applications

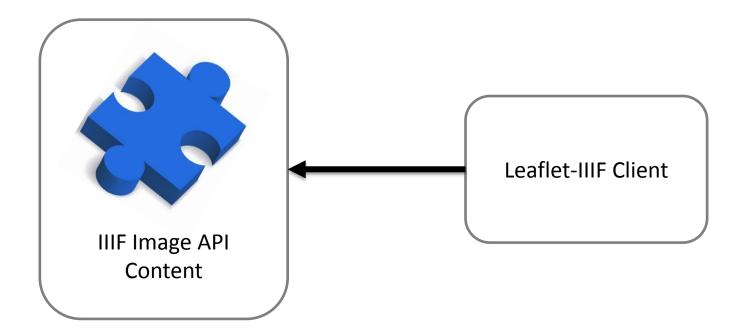
Jack Reed | @mejackreed https://github.com/mejackreed/Leaflet-IIIF

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



- leafletjs.com



Leaflet-IIIF - 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

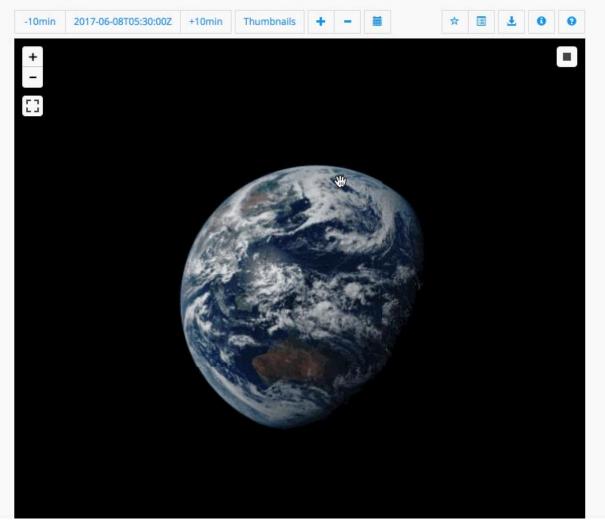
- > 530 contributors
- Very lightweight < 40Kb
- Chrome, Firefox, Safari +5, Opera +12, IE 7-11
 Support
- Excellent mobile support
- Accessibility
- Object-oriented programming principles
- No external dependencies

But the big advantage... Plugin architecture with over

400 plugins

Digital Typhoon: Himawari-8

Digital Typhoon: Himawari-8 Clipping (Full Disk)



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



https://bl.ocks.org/mejackreed/a0caf223c4f0d5111b2c4973d0402e69

Cropping images using Leaflet-IIIF



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

Cropped images being used in other applications

STANFORD UNIVERSITY LIBRARIES

Sign in Feedback

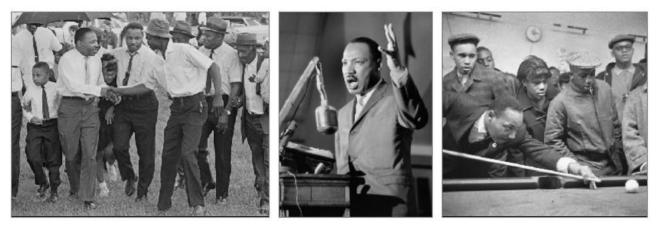
Search...

The Bob Fitch Photography Archive Movements for Change

HOME EXHIBIT CATALOG BROWSE ABOUT

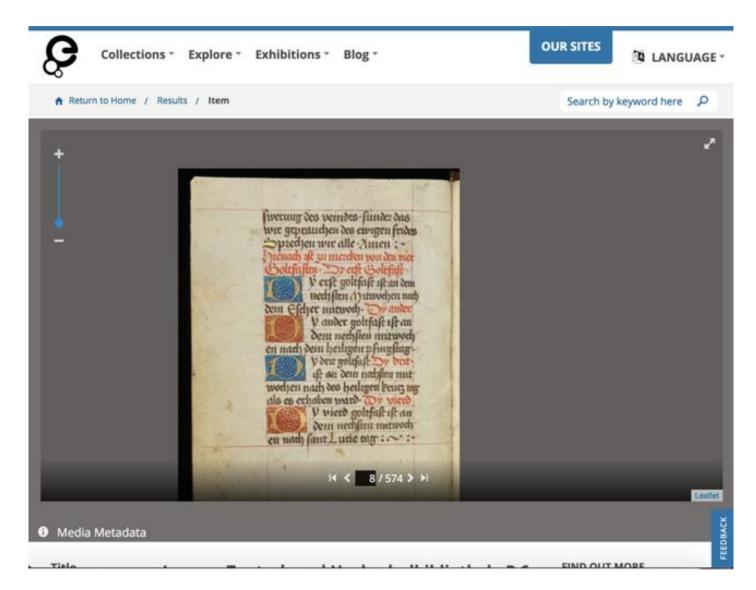
Martin Luther King, Jr. Gallery

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"



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

Europeana



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

PolyAnno

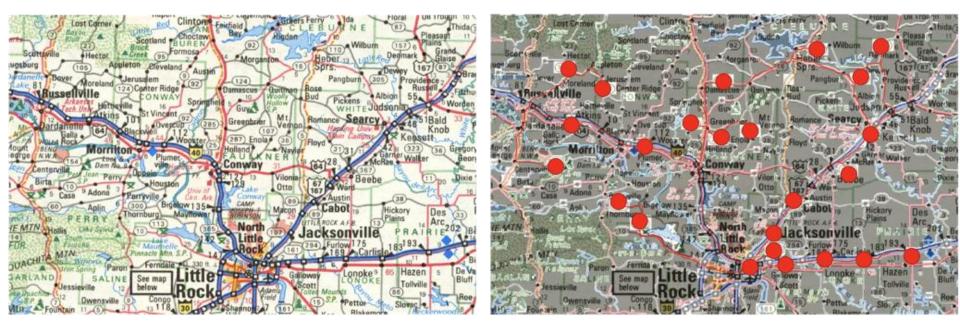
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https://pigeonsblue.com/2016/08/22/polyanno-adventures-in-annotation/

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



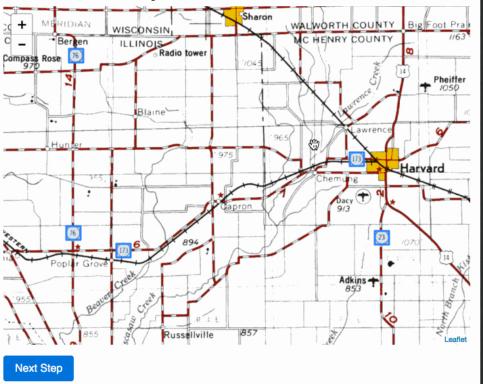
https://github.com/sul-cidr/histonets

Select a Collection

Default Collection \$

Next Step

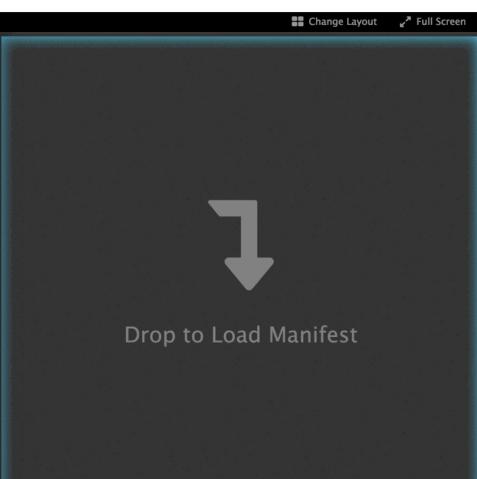
https://github.com/sul-cidr/histonets



Review Template Match Results

Create Image Templates

ìiif

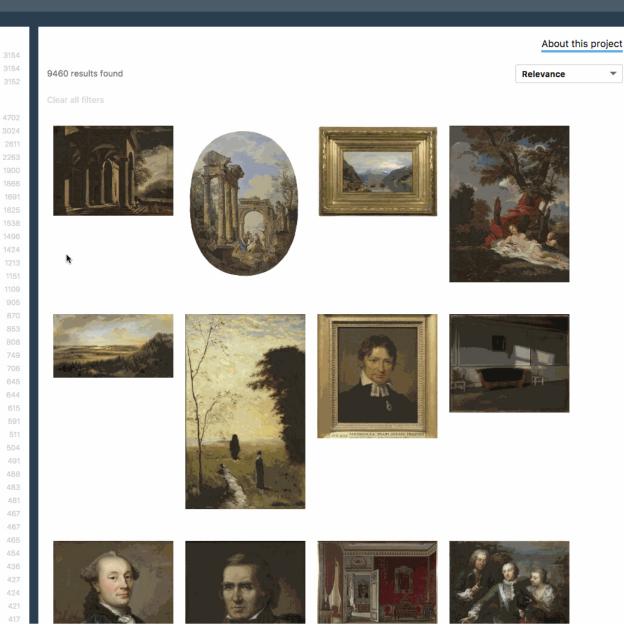


C Search

Clarifai
 Microsoft
 Google

Labels

Painting
Art
People
Adult
Portrait
🗆 One
🗆 Man
🗆 Woman
🗆 Wear
Illustration
Religion
No Person
Person
Print
🗆 Veil
Renaissance
Group
Picture Frame
Old
Tree
Saint
Indoor
🗆 Two
Water
Landscape
🗆 Image
Outdoor
Furniture
Mammal
Nature
Antique
Outdoors
Indoors
Travel
Vintage
🗆 Baby
Leader
Text
Child

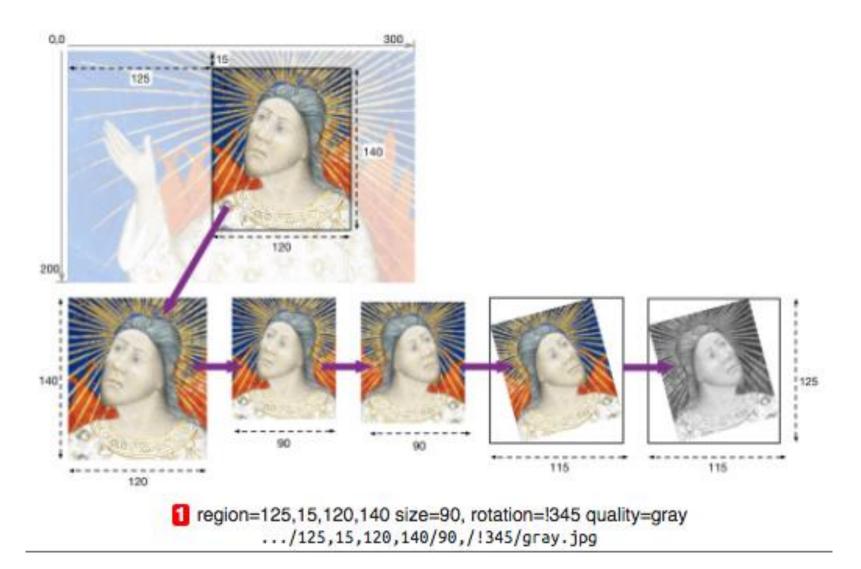


http://labs.cogapp.com/iiif-ml

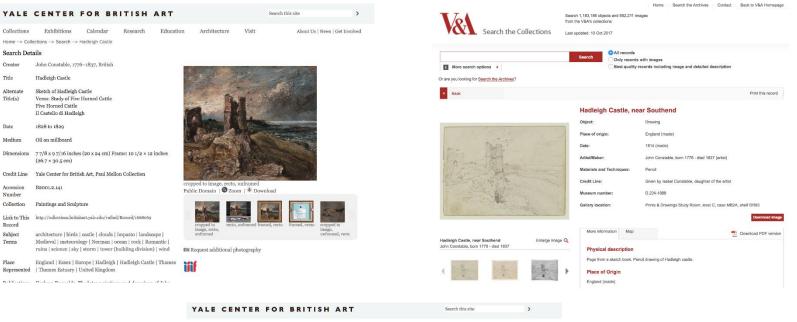
IIIF APIs & Demonstrations

YALE	Michael Appleby
CENTER	Head of Information Technology
FOR	Yale Center for British Art
BRITISH	@mikeapps
ART	Contraction

Image API



Victoria & Albert Museum Compariscope: Constable's Hadley Castle



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

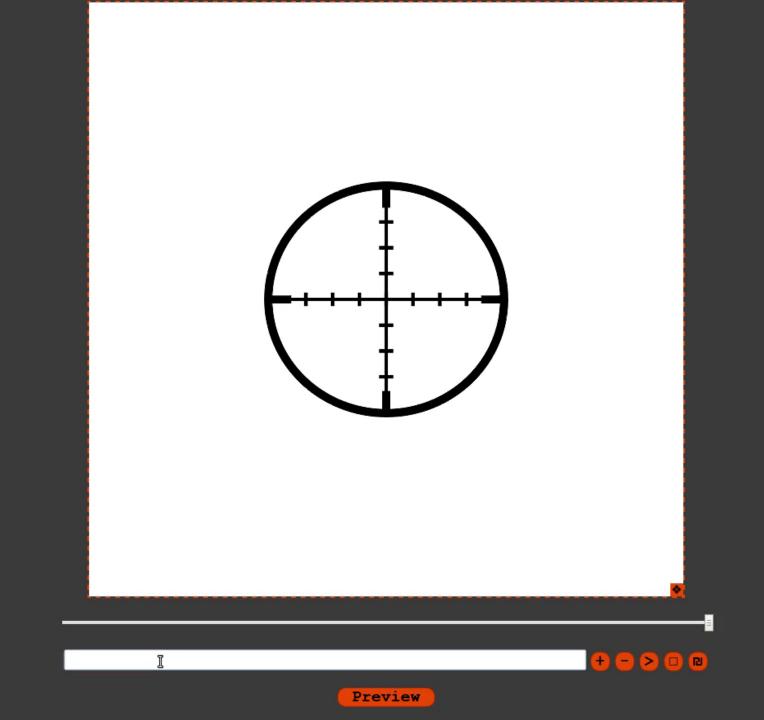
- Creator John Constable, 1776–1837, British
- Title Hadleigh Castle, The Mouth of the Thames--Morning after a Stormy Night
- Alternate Hadleigh Castle Title(s) Il Castello di Hadleigh
- Date 1829
- Medium Oil on canvas
- Dimensions 48 x 64 3/4 inches (121.9 x 164.5 cm) Frame: 59 1/2 × 76 1/4 inches (151.1 × 193.7 cm)
- Credit Line Yale Center for British Art, Paul Mellon Collection
- Accession B1977.14.42 Number
- Collection Paintings and Sculpture
- Curatorial In the framous letter of 2g October 1821 to his friend Archideacon Comment Fisher, John Constathe reported: '1 have not been ilde and have made more particular and general study than 1 have ever done in one summer, but I an most anisous to get filtes ny London painting room, for I do not consider myself at work without I am before a six ford cauvas' (Constable's great 'six-forcer' Iandscape paintings reflected both his high aspirations for Iandscape ingeneral, and his dosire for professional recognition and financial security. Yet Ifadleght Castle, which comes relatively late in the sequence of six-forcers, in 1829, is among



Public Domain | SZoom | Download



IBI Request additional photography





Constable – the process

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.



f

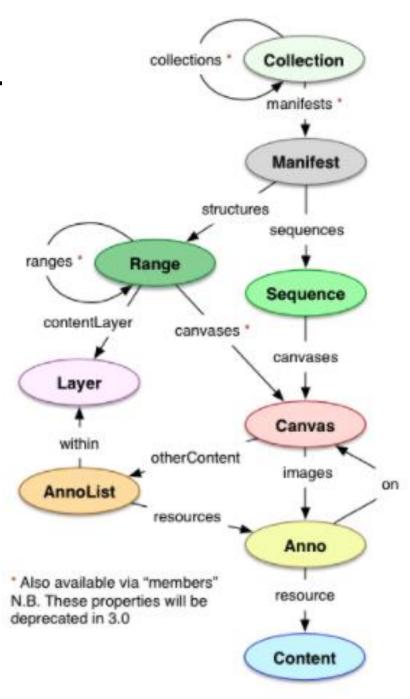
y

P

+

Presenta⁻

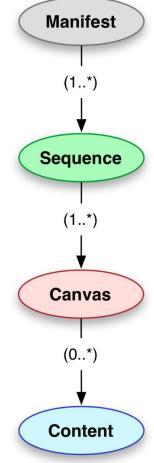
"The objective of the IIIF Presentation API is to provide the information necessary to allow a rich, online viewing environment for primarily image-based objects to be presented to a human user, likely in conjunction with the IIIF Image API."



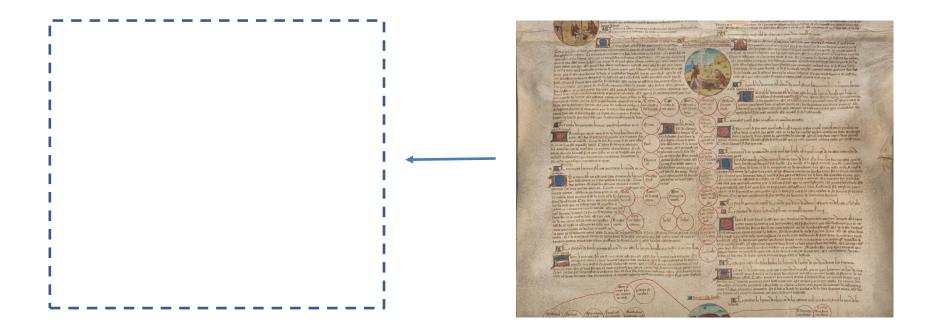
Presentation API

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



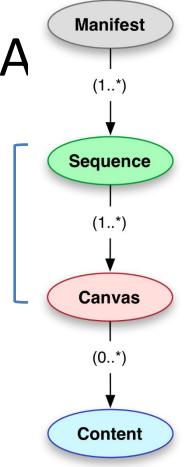
A Canvas is a coordinate space with X and Y dimensions (width and height).

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.





Presentation API: Other Properties

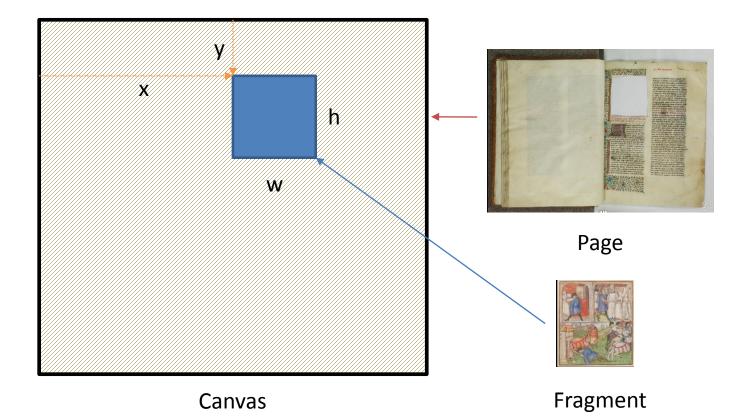
- Descriptive Properties (label, metadata, description, thumbnail)
- Rights and Licensing Properties (attribution, license, logo)
- Technical Properties (viewing direction, viewing hints, width, height, ...)
- Linking Properties (related, see also, start canvas, within, ...)
- Paging Properties (first,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

Audio-Visual

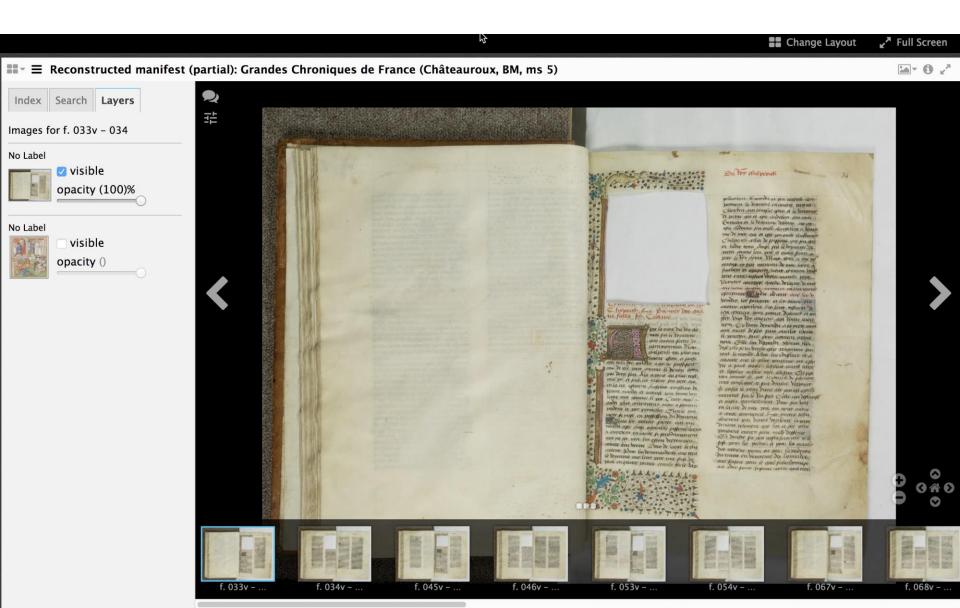
- IIIF Presentation API 3.0 will expand the notion of a Canvas from an x,y space by adding a time dimension
- This will allow for annotation of audio and video onto the Canvas at specific points in time
- Images, text, and other content can also be annotated on to the Canvas
- The video on the following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



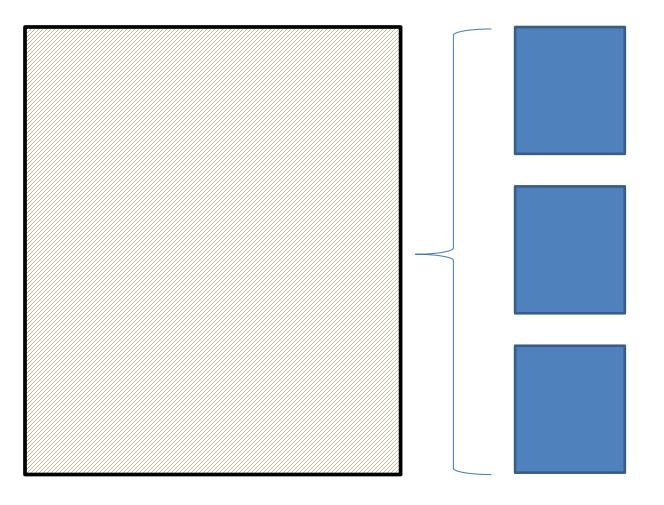
Presentation API: Reconstruction of a Manuscript Folio



Demonstration: Manuscript Reconstruction



Multiple Images on a Single Canvas

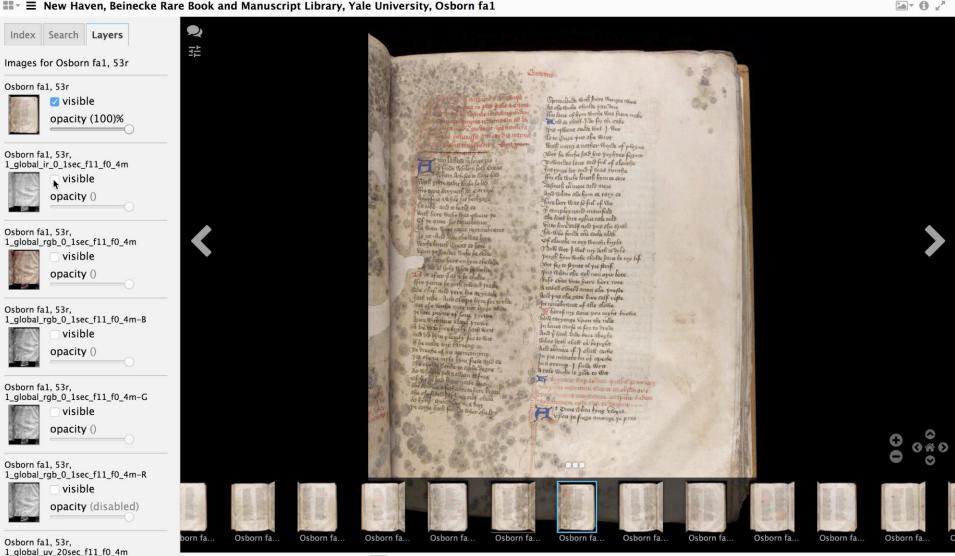


Canvas

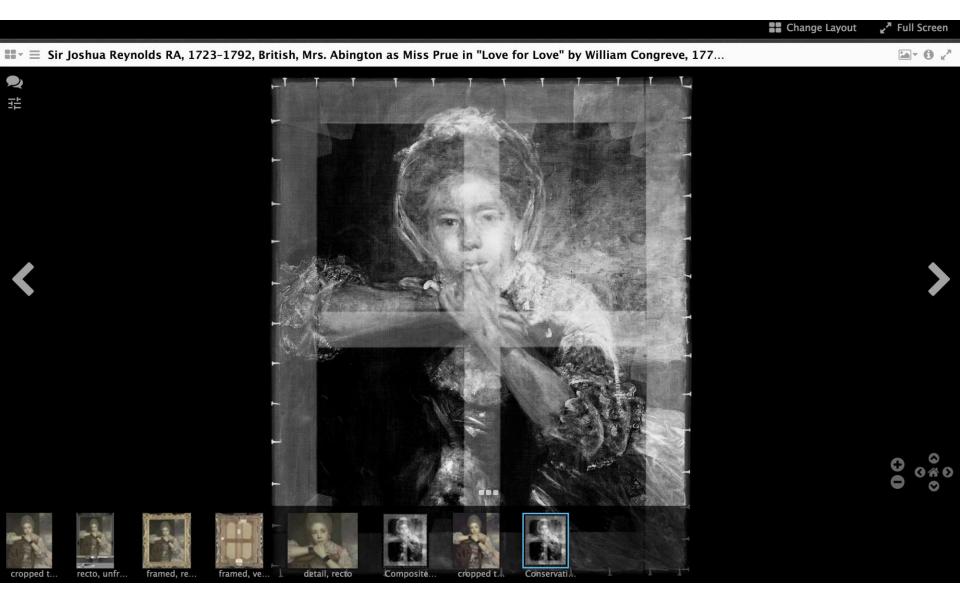
Images

Demonstration: Multispectral Images

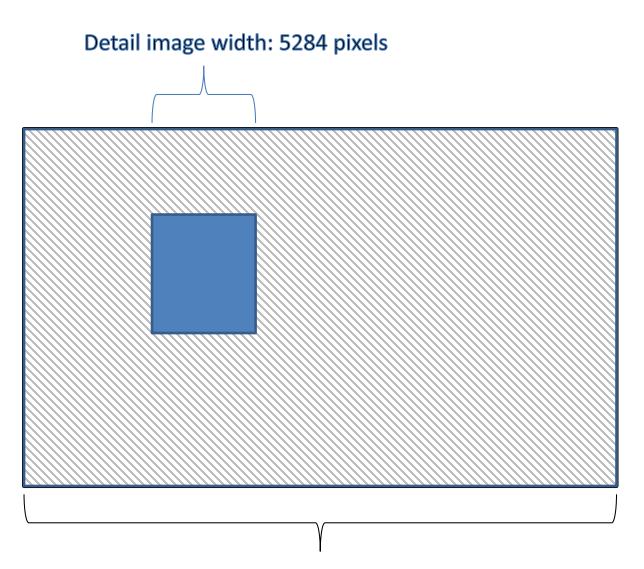
Change Layout Full Screen



Demonstration: X-Ray and Conventional Photography



Demonstration: Detail Images and Deep Zoom



Base image width: 6258 pixels

Demonstration: Detail Images and Deep Zoom



Change Layou

IIIF – Get Involved



How to Participate

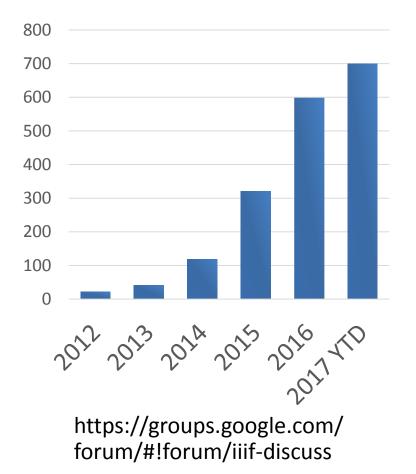
- 1. Use IIIF-compatible software and content
- 2. Expose your collections via IIIF
- 3. Make your software IIIF-compatible
- 4. Ask your software suppliers to become IIIF-compatible
- Join IIIF communication channels -#japan on Slack
- 6. Sign up for IIIF-C

IIIF Communication Channels

- IIIF Website: <u>http://iiif.io</u>
- <a>iiif-discuss@googlegroups.com
- IIIF Slack Team Join at <u>http://bit.ly/iiif-slack</u>
- Twitter: @iiif_io and #IIIF
- Awesome-IIIF on Github
- IIIF YouTube Channel
- IIIF Events
- Contact me: <u>srabun@iiif.io</u>

Communication

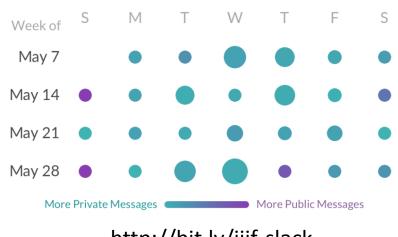
IIIF-Discuss Google Group



IIIF Slack



Total Messages



http://bit.ly/iiif-slack

#japan in IIIF Slack

#1 #1 #2 #3	 iiif ~ tcramer ⇒ All Unreads © All Threads Channels # 3d aac_bootstrapping # av 	#japan ☆ 814 81 Add a topic C ③ ④ ④ Search @ ☆ : C (International Image Interoperability Framework) に関してこのフ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
x5 x6	 coco community-newsl 1 curators_of_awesome demos dh_kit dhsi discovery general iiif_io-github 	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)
ж7 • С ж8 • Б	<pre># japan japan_posse # manuscripts 4 # mirador 1 Unread Mentions</pre>	takaxp (Takaaki Ishikawa) 7:50 AM 本チャネルを作ろうとの議論において, iiif.jp に Slack (及びこのチャネル) 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 – <u>http://iiif.io/news</u>

ilf		ABOUT	TECHNICAL DETAILS	APPS & DEMOS	COMMUNITY	NEWS
IIF Cor	mmunity Newsletter, Volum	e 1 Issue 4	ł			
Date: 30 Aug Author: Shei						
Commun	nity Snapshot					
• IIIF-Di	iscuss = 737 members					
	ack = 492 members					
 IIIF im 	nages online = 345+ million					
 IIIF Co 	onsortium: 46 institutions. The IIIF Consortium (IIIF-C)	continues to walco	me founding member	rs through Decem	her 2017 (place	licmo
	m@iiif.io or see the IIIF-C FAQ for more information).			-	bei 2017 (piedsi	CIIIdii
		the colour fic				
0	École polytechnique fédérale de Lausanne (EPFL)					
0	Folger Shakespeare Library					
0	National Gallery of Art					
0	Smithsonian Institution					
0	Walter J. Ong, S.J. Center for Digital Humanities at Sa	aint Louis Universit	у			
0	Folger Shakespeare Library National Gallery of Art Smithsonian Institution	aint Louis Universit	y			

2018 IIIF 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

- o Artstor
- Bavarian State Library (BSB)
- o British Library
- o Brown University
- Cambridge
- Chinese U. of Hong Kong
- o Cornell
- o Data Futures
- Ecole Polytechnique Federale de Lausanne (EPFL)
- o Europeana
- Folger Library
- o J. Paul Getty Trust
- o Johns Hopkins
- Harvard University
- Hong Kong University
- o Indiana University
- Kyoto University Library Network
- o MIT
- National Gallery of Art (US)
- National Library of France
- o National Library of Israel
- National Library of Norway

- o National Library of Poland
- o National Library of Scotland
- New York University
- North Carolina State University
- o Ohio State University
- o Oxford
- o Penn State University
- o Princeton
- o Saint Louis University
- o Smithsonian Institution
- o Stanford
- o University of Basel
- o University of Edinburgh
- University of Göttingen
- o University of Leiden
- University of Michigan
- University of Notre Dame
- University of Pennsylvania
- University of Tokyo
- University of Toronto
- o Vatican Library
- o Wellcome Library
- Yale University (incl. Yale Center for British Art)



International Image Interoperability Framework

