



# International Image Interoperability Framework

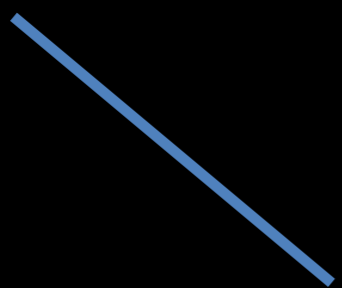
SWIB - December 2017

Glen Robson IIF Technical Coordinator

 @iif\_io

slides from Tom Cramer and many others in the IIF Community

Global

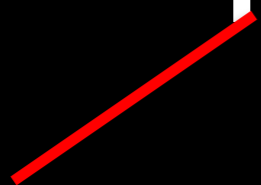


# International Image Interoperability Framework

Image-based  
resources:  
books, images,  
newspapers,  
manuscripts,  
scrolls, maps,  
music, art,  
et al.



Mutually  
usable;  
simpatico



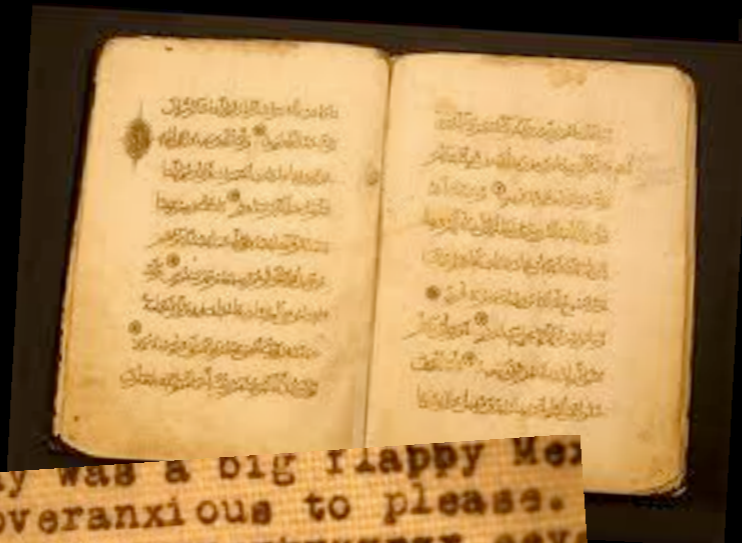
APIs  
Software  
Content  
Community



# IIIF Communication Channels

- IIIF Website: <http://iiif.io>
- [iiif-discuss@googlegroups.com](mailto: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](mailto:srabun@iiif.io)

# Images are fundamental information carriers for cultural heritage



...day was a big happy Me  
overanxious to please.  
XXXXXXXXXXXXXX sev  
another wild day began.  
...iled 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 on the Web is...

<http://www.loc.gov/pictures/resource/fsac.1a34206/>



- hard
- slow
- expensive
- disjointed
- locked up
- *siloes*



Capabilities



# Deep zoom with large images





# Cite and share (even regions of interest)

Back About this item help bookmark changeLayout fullScreen settings

Buidhean coisidheadh ag dul tre shráid-bhaile Franncach

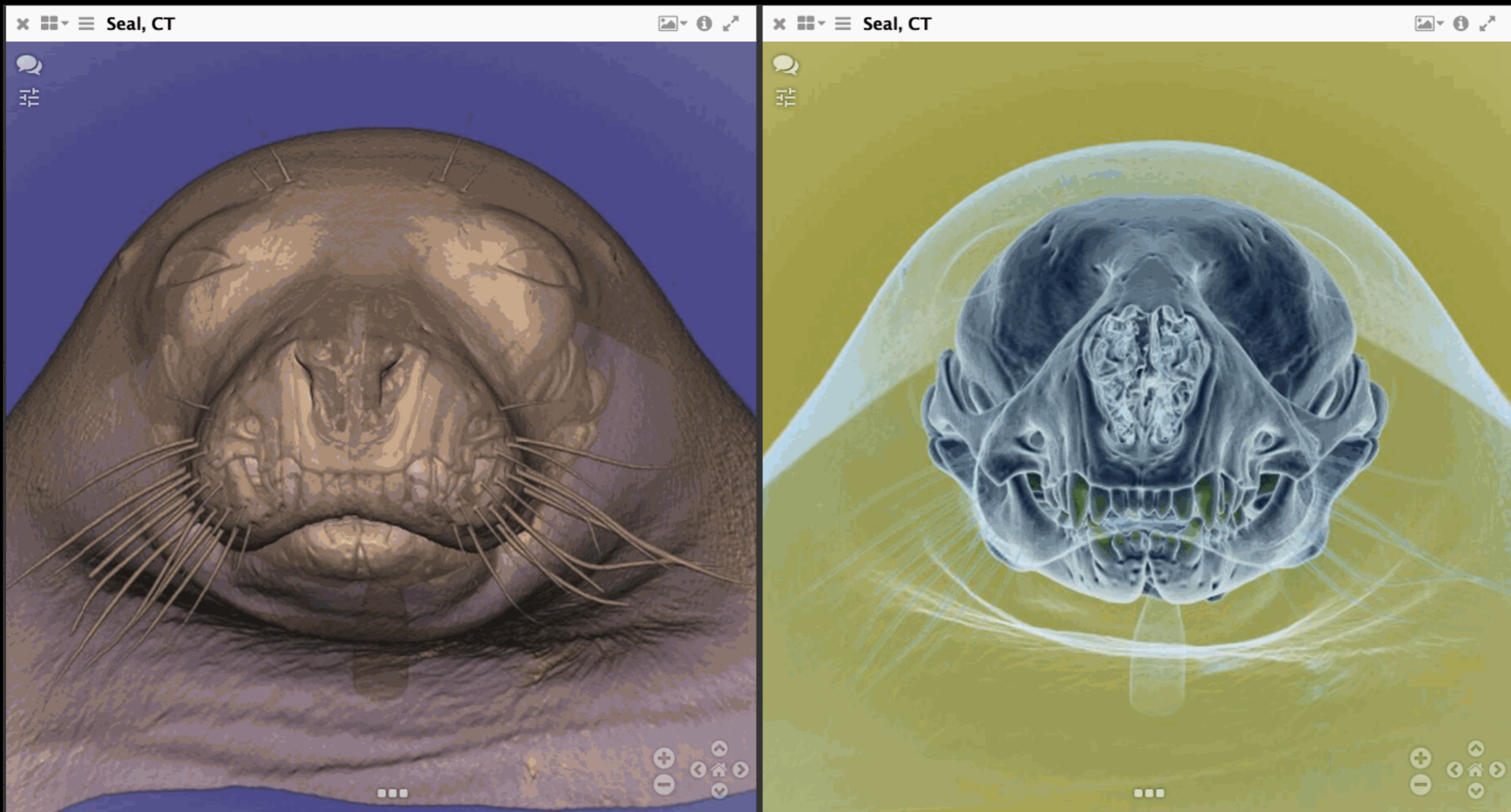


Front de la MARNE : Régiment d'Infanterie traversant un Village.

Buidhean coisidheadh ag dul tre shráid-bhaile Franncach.



# 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,rsp+10,fa+,so+ox%3Asort%5Eas...

DIGITAL BODLEIAN

GO CLEAR

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.II. 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.II 1154 | Becket assassinated by four barons

Collection: Ephemera

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: bodjjo001-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.

MORE INFORMATION

TYPE AS 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 BVMM  
Miniature in the BNF

# Reunify

Biblissima 

PROJET

↓ OUTILS

DÉMOS

DOC

## Démos



Proto-BBMN 1713

Prototype


Bibliothèque de Florus

Grandes Chroniques de France

Mirador

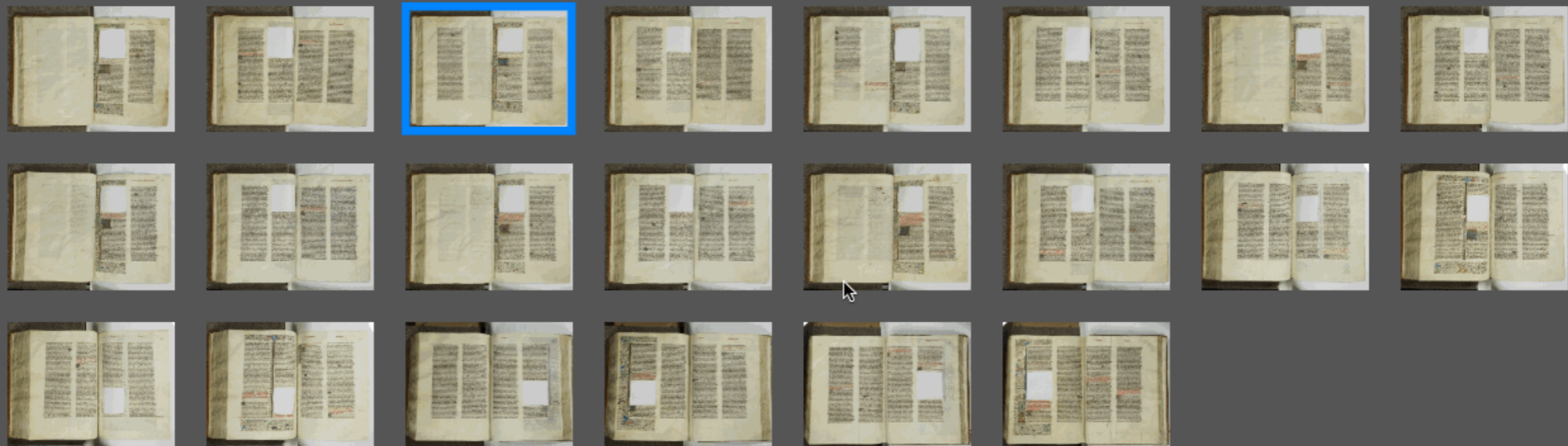
Atelier RDF/SPARQL 2014

 A propos

Afficher les miniatures 



[Mort de Gondevald. Entretien entre Gontran et Childebert]





# Search within

Bookmark

Change Layout

El Paso herald. (1915-04-14)

IS CONFIDENT

Higher Officials Feel No Misgivings, Despite the Army's Great Setbacks.

Vienna, Austria, April 14.—Not the slightest doubt concerning final victory in the

in the minds of Austria-Hungary's statesmen. The correspondent of the Associated Press, in more than a month's stay here, has interviewed many of the leaders of the dual monarchy. All seem supremely confident, despite the enormous setbacks which the empire's armies have received.

"Eight months of war also have proved that all know how to fight and the soldiers of all nationalities have

AGAIN

Three Alamogordo Juries Refuse To Impeach Talley For Murder

TWO JURIES GIVE PORTER CLEAR

Third Grand Jury

Vienna, Austria, April 14 Not the



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Page 2



Page 3



Page 4



Page 5



Page 6



Page 7



Page 8



Page 9



Page 10



Page 11



Page 12

# Analyze

The screenshot shows the Georeferencer web application interface. At the top, there is a navigation bar with the following elements: a target icon, the text "Georeferencer", and four tabs: "Georeference", "Visualize", "Accuracy", and "This map". A "Sign in" button and a user profile icon are located on the right side of the navigation bar.

Below the navigation bar, there is a control area. On the left, it says "2D / 3D / Side-by-side". In the center, there is a small thumbnail of a map labeled "Stanford's map of Scotland." with a slider below it. To the right of the thumbnail is a double-headed arrow icon and a text box that reads: "Select this slot and then select map from the sidebar (or simply drag the map here)."

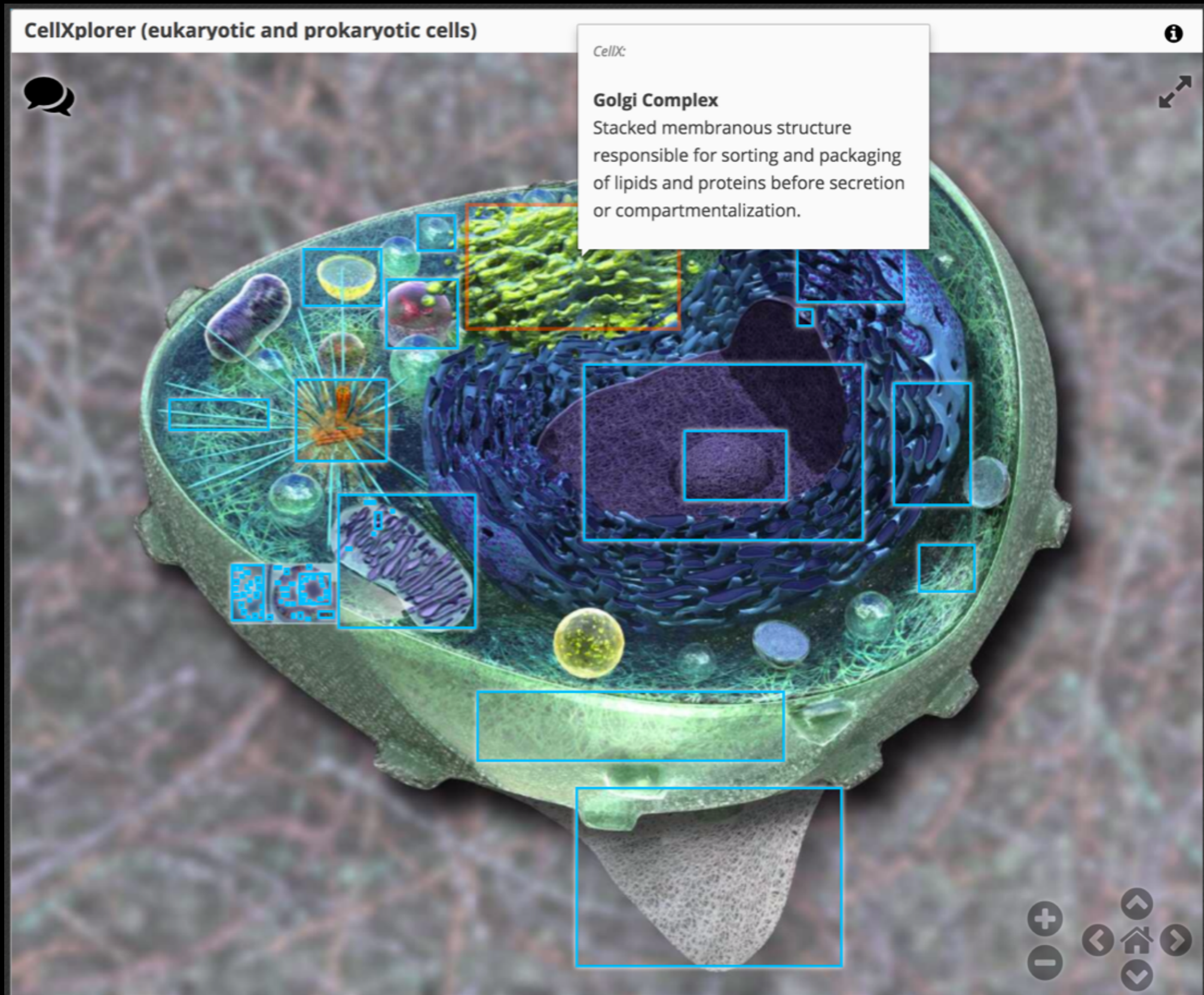
The main map area displays a satellite view of Scotland and Northern Ireland. A large, semi-transparent historical map is overlaid on the satellite view, covering most of Scotland. The historical map has a grid and various colored regions. Above the main map, there are several control buttons: "Affine", "Polynomial", "TPS", and "Cutline" (which is checked). On the right side of the map, there are two buttons: "Mapa" and "Satelitní".

On the left side of the map, there is a compass and a vertical zoom slider with "+" and "-" buttons. The map shows various geographical features and labels, including "Aberdeen", "Loch Lomond & The Trossachs National Park", "Greenock", "Irvine", "Northern Ireland", "Belfast", "Whitehaven", "Lake District National Park", "Barrow-in-Furness", "Darlington", "Middlesbrough", and "Scarborough".

At the bottom right of the map, there is a small text box that reads: "Data map ©2014 GeoBasis-DE/BKG (©2009), Google Podminky použití".



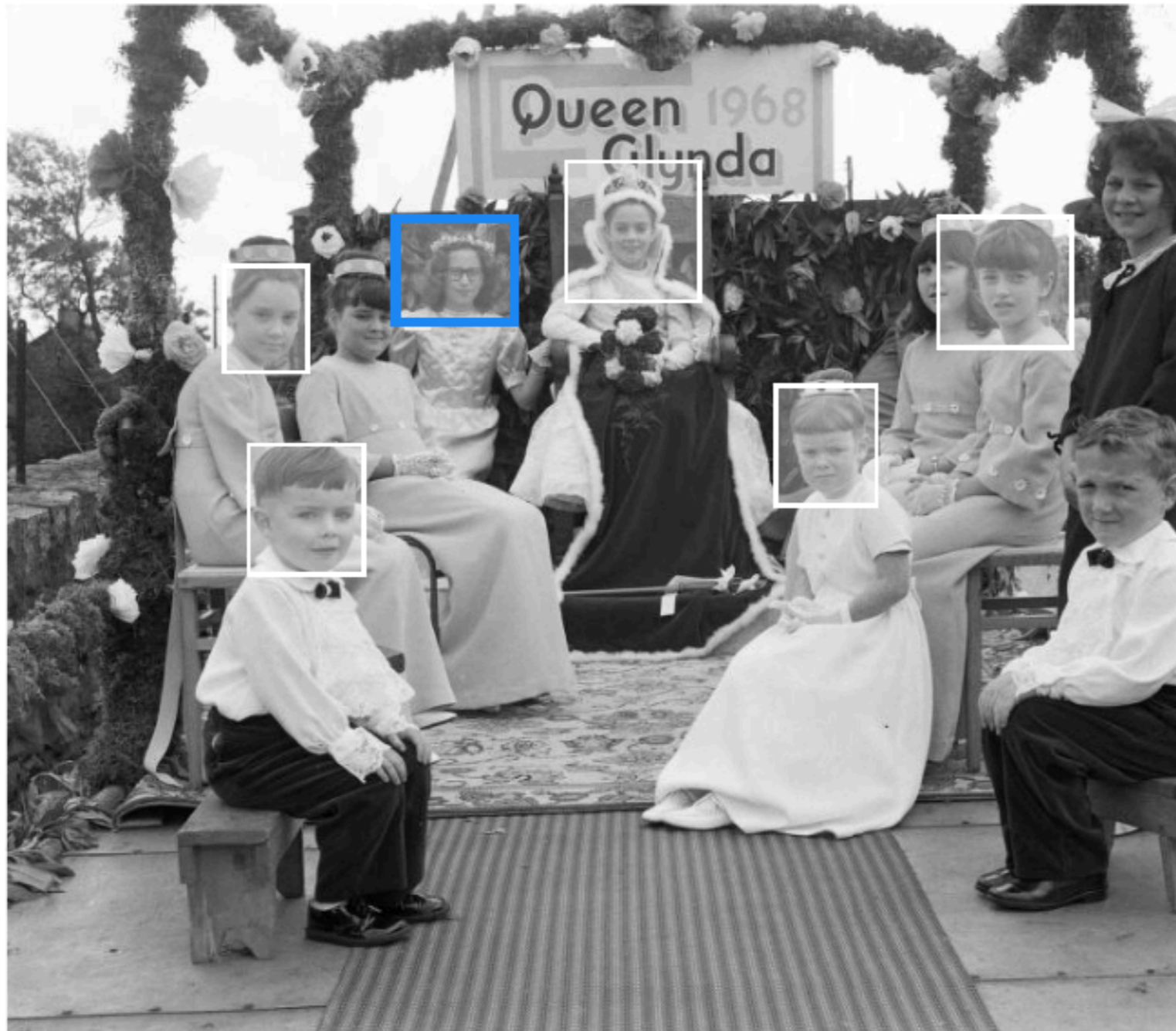
# Annotate





# Crowd Source

toggle annotations



## Name

Name for this person

**Charlotte**

## Date of Birth

Date of Birth of the person identified.

**27/07/1965**

## Occupation

Job title or occupation for the person identified

**Teacher**

## Description

Description of the person identified

**Charlotte was 14 in this photo but grew up to be the local teacher**



# Enrich

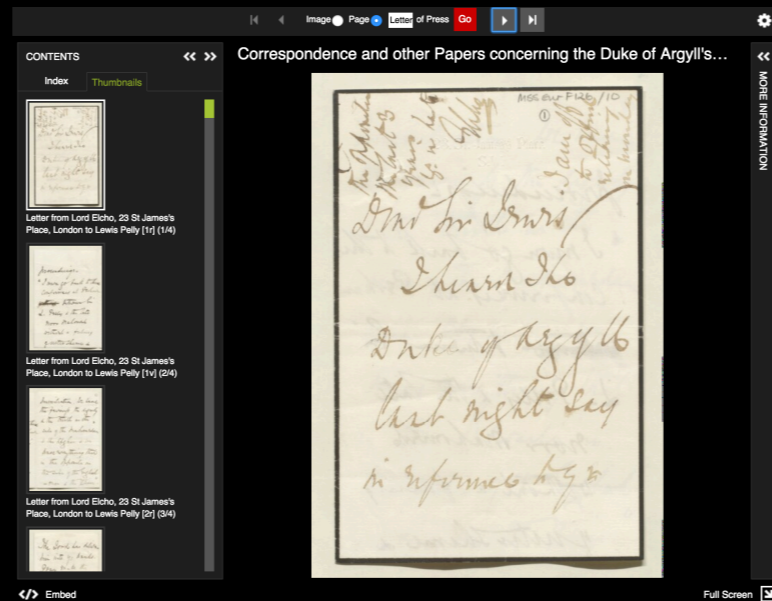


Mirador instances on display at McMullen Museum, Boston College.

# All with the application of your choice



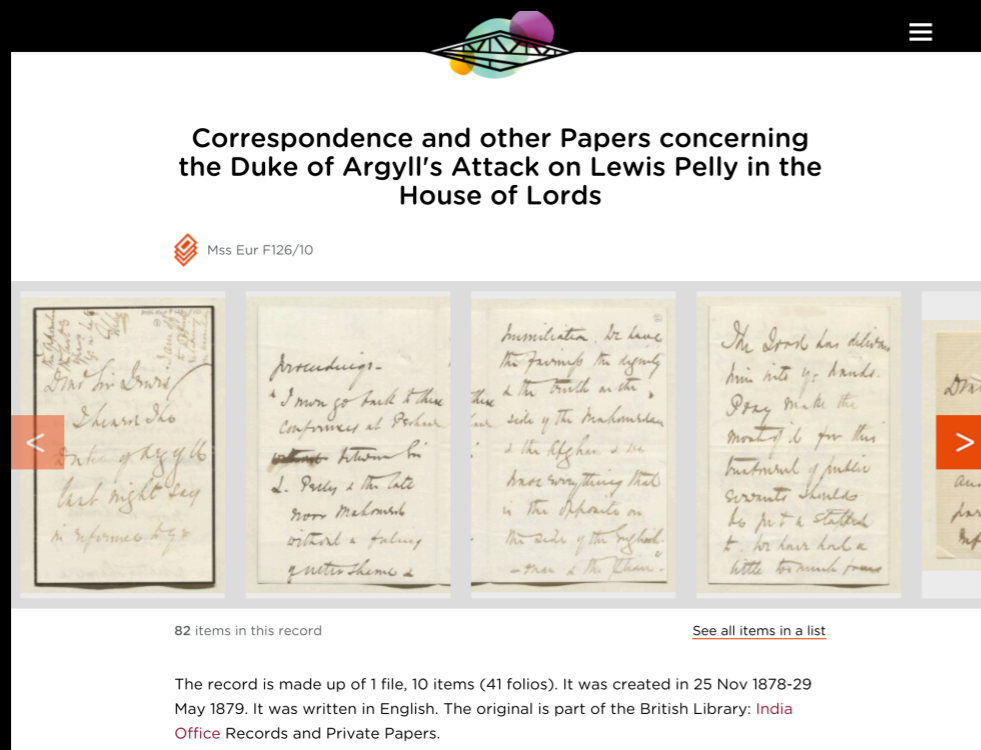
Mirador



Universal Viewer



IA Book Reader



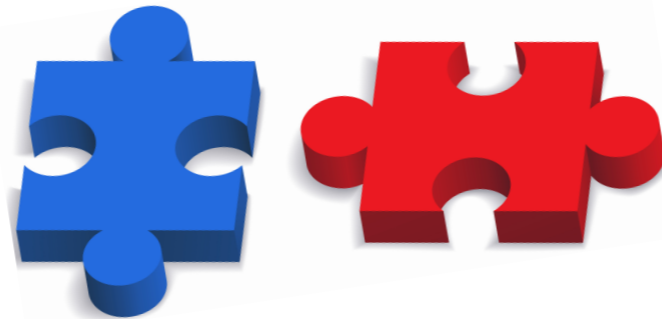
Qatar Digital Library  
Archival papers shown in 4  
different viewers.

<http://labs.cogapp.com/iiif>



# How Does IIF Work?

## IIIF: Two Core APIs



### **Image API**

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

### **Presentation API**

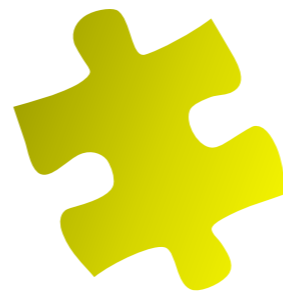
Just enough metadata to drive a remote viewing experience

## IIIF: Three More APIs



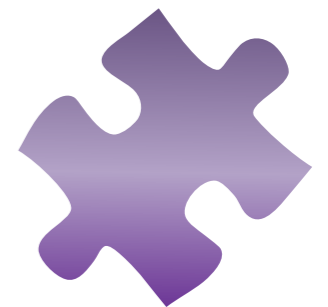
### **Search API**

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)