IIIF Implementation at the University of Edinburgh

Alasdair MacDonald, Edinburgh University Library

DC-2017, Washington D.C., 26th October 2017
What is IIIF?

International Image Interoperability Framework
IIIF (International Image Interoperability Framework) has the following goals:

- To give scholars an unprecedented level of uniform and rich access to image-based resources hosted around the world.
- To define a set of common application programming interfaces that support interoperability between image repositories.
- To develop, cultivate and document shared technologies, such as image servers and web clients, that provide a world-class user experience in viewing, comparing, manipulating and annotating images.

From [http://iiif.io/about/](http://iiif.io/about/)
Key IIIF Elements

**APIs**

- **Image**: specifies a web service that returns an image in response to a standard HTTP or HTTPS request
  
  [http://iiif.io/api/image/2.1/](http://iiif.io/api/image/2.1/)

- **Presentation**: 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
  
  [http://iiif.io/api/presentation/2.1/](http://iiif.io/api/presentation/2.1/)

**Basic Types**

- **Manifest**
- **Sequence**
- **Canvas**
- **Content**

[http://iiif.io/api/presentation/2.1/#basic-types](http://iiif.io/api/presentation/2.1/#basic-types)
Mahabharata Scroll Section 2
Browse All: Comedy

1598 (63)
Archives (63)
De.3.74 (63)
Drama (63)

WHERE
Centre for Research Coll ... (63)
London, England, UK (59)

WHO
Shakespeare, William (63)

WHEN
1598 (63)
Fabienne Hess - Zebras, Blanks and Blobs, Windows (2017)

The University of Edinburgh has amassed one of most important collections anywhere in the world. Beginning with the bequest of 276 volumes to the library in 1580, our collection contains objects as old as the solar system through to contemporary works of art. Millions of objects are spread over 45 different sites; 280 named collections cared for by around 40 curators, archivists and conservators. Finding ways to articulate the vastness of this collection is what inspired the Swiss artist Fabienne Hess
Package to develop crowd sourced transcription and translations of images!

Introduction

The Polyanno package is designed to allow anyone to develop a lightweight, modular web design for easy crowd sourcing of transcriptions and translations of digitised images, with support for input across a large variety of languages and formats.

Contents

This Wiki is under development so please be patient as these links may be changing!

How It Works

Polyanno Objects

https://github.com/UoEMainLibrary/polyanno/wiki
Current image collection system and others

Collections.ed.ac.uk

DSpace
(PDF files, with handle attributed)

SOLR Indexes of metadata and IIIF URLs

Museum (Vernon)

Archives Space

metadata

Purple: Adding LUNA URLs (In development)

LUNA
(High resolution images)

Primo (DiscoverEd)

metadata

ALMA
(Library catalogue)

metadata
Future image collection system

**Discovery tools (DiscoverEd/Collections.ed.ac.uk)**

- **DSpace** (only metadata – incl. IIIF manifest)
- **LUNA** (image data storage; generates **IIIF manifest** JSON files)
- **Catalogue** (**Alma, Vernon, ArchivesSpace**) (metadata)

IIIF manifest points where the image is located.

IIIF manifest references metadata is see also.
<table>
<thead>
<tr>
<th><strong>Artist</strong></th>
<th>James Heath (English b. 1787, d. 1934)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title</strong></td>
<td>Hermann Boerhaave (1668-1738), Professor of medicine and humanist; rector of Leyden University (1738)</td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td>1788</td>
</tr>
<tr>
<td><strong>Subject</strong></td>
<td>Hermann Boerhaave (Dutch b. 1668, d. 1738); Medicine; Science; Chemistry; Portraits</td>
</tr>
<tr>
<td><strong>Collection</strong></td>
<td>Art Collection: Thomson-Walker</td>
</tr>
<tr>
<td><strong>Accession Number</strong></td>
<td>D16415</td>
</tr>
</tbody>
</table>
Medical Portraits: Choice for a Test Case

• Objectives of improving access to digital collection via DiscoverEd and outwith EUL’s discovery systems

• Collection rich in authority metadata for both creators and sitters

• 255 digital objects with descriptive metadata in LUNA

• Opportunity to use RDA standard to describe both physical and digital objects

Image © Edinburgh University Library
https://images.is.ed.ac.uk/luna/servlet/s/04bvww
Metadata Creation – May/July 2017

- Re-use existing Luna metadata
- Decisions on relationships to the objects
- Controlled vocabularies for techniques and materials
- Embed URIs for creators and subjects, where available

Image © Edinburgh University Library
https://images.is.ed.ac.uk/luna/servlet/s/6gvgr
Metadata
Creation – May/July 2017

• Creator: Richard Gaywood
LUNA: Gaywood, Richard (active 1630-1680)
LCNAF: Gaywood, Richard (active 1650-1680)

• Sitter: Nicholas Culpeper
LUNA: Culpeper, Nicholas
LCNAF: Culpeper, Nicholas, 1616-1654

Image © Edinburgh University Library
https://images.is.ed.ac.uk/luna/servlet/s/6gvgr
Name of the Work?

Dr. James Anderson, Physician General Madras

James Anderson (1738-1809), FRSE. Physician General to the East India Company; botanist
Name of the Work?

A country doctor giving a bolus to a patient

LUNA form and RDA in agreement
IIIF Find out more:

IIIF Website: http://iiif.io/


IIIF Community Groups: http://iiif.io/community/groups/

IIIF Consortium: http://iiif.io/community/consortium/

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

IIIF Conference 2018: May 21-25 in Washington, DC, USA

Resources for further information:

An introduction to IIIF: http://resources.digirati.com/iiif/an-introduction-to-iiif/

IIIF Tutorial: https://iiif.github.io/training/intro-to-iiif/
Thank you!

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