An introduction to the International Image Interoperability Framework

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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
IIIIF: Two 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.
The story so far...
Silos of non-interoperable content

Grain elevators, Caldwell, Idaho, by Lee Russell, 1941.
http://www.loc.gov/pictures/resource/fsac.1a34206/
Metadata

• We getting good at sharing descriptive metadata
• But it doesn’t help us get pixels on screen
  • Read the pages
  • Look at the brush strokes
  • See the film grain

• IIIF provides
  • A model for describing digital representations of objects
  • A format for software - viewing tools, annotation clients, web sites - to consume and render the objects and the statements made about them
The Image API
The Image API
The Image API
The Image API
The Image API
OSD example
The Presentation API

Structure

Properties
  • Descriptive
  • Rights
  • Technical
  • Linking

More to it that than this however...
The Presentation API

More Structure!
- Ranges for Navigation (ToC)
- Layers for managing content

Annotations!
- For linking resources
- For commentary
- For hotspots
- Managed in Lists
The Presentation API
The Presentation API
The Presentation API
The Presentation API

Drag the images up and down to change their z order. Check the box to display them.

- Glenda Jackson (detail)
- Miranda Richardson (detail)
- Skulls (detail) (detail)
- Skulls (x-ray) (default)
- Skulls (x-ray, segment-cropped) (default)
- No Label (default)

John Dee
The Search API

[Report of the Medical Officer of Health for St. Martin-in-the-Fields].

and even spirit drinkers, those best enjoy who merely mix the manufactured article spring water.

If we go into the evidence against the use of pump water, from the positive injury to which it may be not simply charged, but if the verdict must be in its favour. At the last of cholera there was good reason to believe disease was propagated by the use of the pump in Broad Street, and it is clear that a drain actually poured its contents well. Other similar cases are known. In of cholera or diarrhoea all water must be whatever its source; and we may consider, blished rule, that in all such diseases no water drunk which has not been previously boiled course, on the same principle, all persons bowel complaints should be very cautious water which they drink.

I am not aware that beyond this class of London wells are chargeable with positive health. Their explanation is generally

12 results found for 'pump'  Clear
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The benefits of IIIF

The four specifications together:

• Serve pixels
• Describe digital objects
• Search annotations
• Protect content that can’t be open access
The benefits of IIIF

How would my institution benefit from IIIF?

• Practical self interest
  • More and more client and server software developed by the community
  • Increasing support from commercial vendors
The benefits of IIIF

How would my institution benefit from IIIF?

• Interoperability
  • The Universe of IIIF is made up of web resources conforming to the same standard
  • This means you could create derived IIIF resources - a manifest illustrating an exchange of letters between two people whose correspondence is held by different institutions, or digital reconstruction of a manuscript whose leaves are dispersed across the world
The benefits of IIIF

How would my institution benefit from IIIF?

• Annotation
  • Your content is open to annotation by all
  • You can create curated annotations on your own content to drive discovery applications
  • You can link your IIIF resources to others via annotation
  • If an annotation tool supports IIIF, it can be used to annotate any collection exposed as IIIF
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Thank you!

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