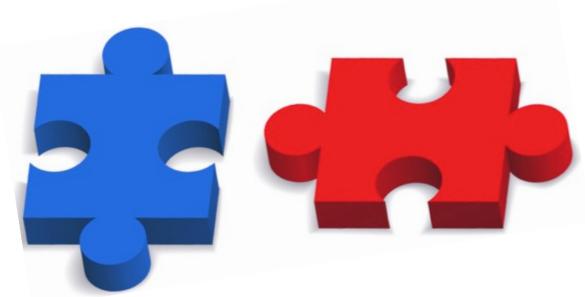


International Image Interoperability Framework

Tom Crane Digirati Ltd

IFLA Columbus 15 August 2016

#### IIIF: Two Core APIs



#### **Image API**

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

#### **Presentation API**

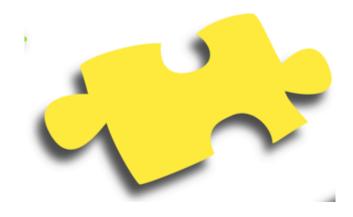
Just enough metadata to drive a remote viewing experience

#### IIIF: Two More APIs





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

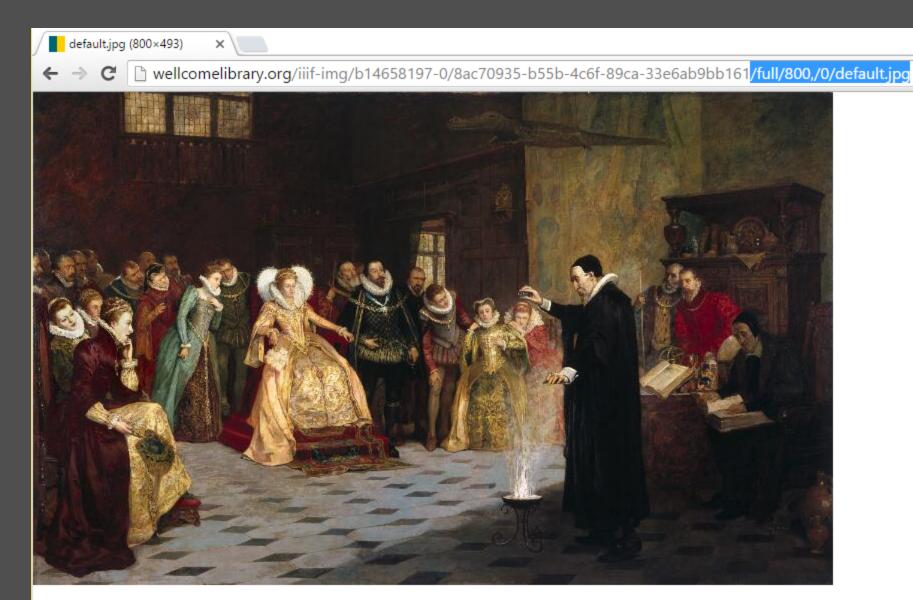


Grain elevators, Caldwell, Idaho, by Lee Russell, 1941. http://www.loc.gov/pictures/resource/fsac.1a34206/

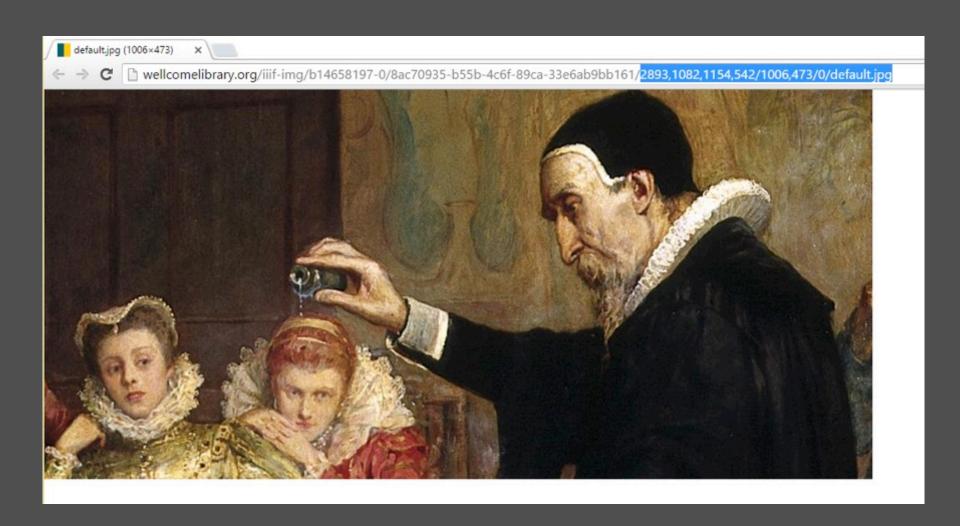
#### Metadata

- 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

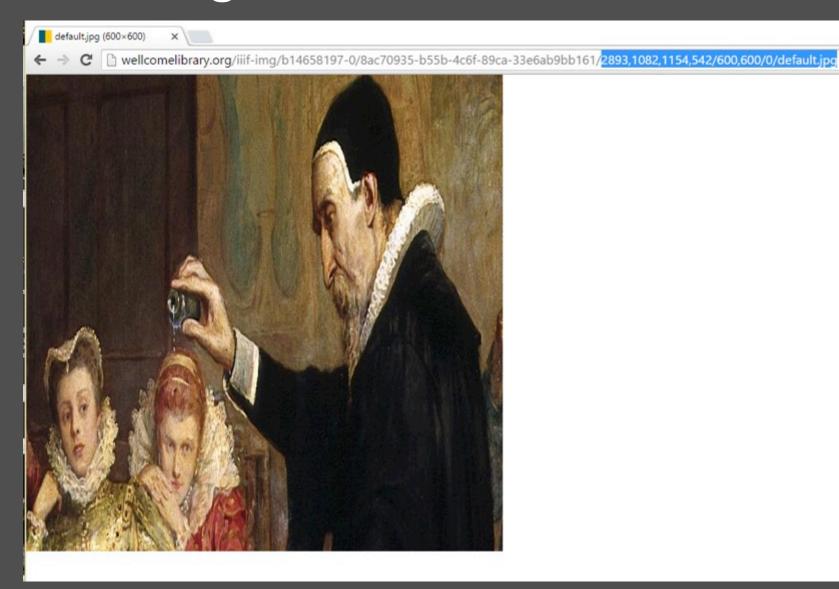




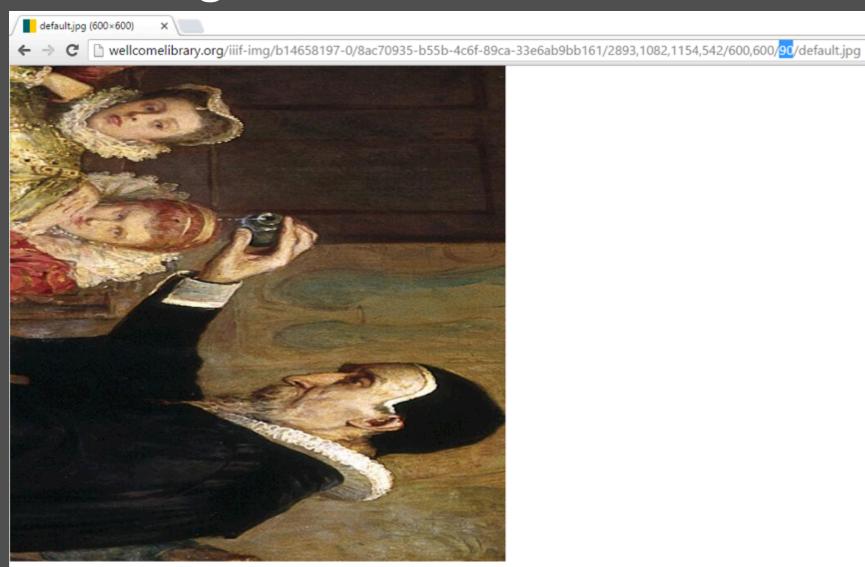


















/full/87,/0/default.jpg



/full/174,/0/default.jpg



/0,0,8192,8192/256,/0/default.jpg



/0,8192,8192,680/256,/0/default.jpg



/8192,0,2937,8192/92,/0/default.jpg

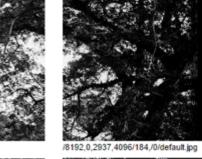


/8192,8192,2937,680/92,/0/default.jpg





/4096,0,4096,4096/256,/0/default.jpg





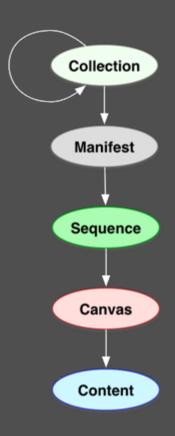




#### OSD example







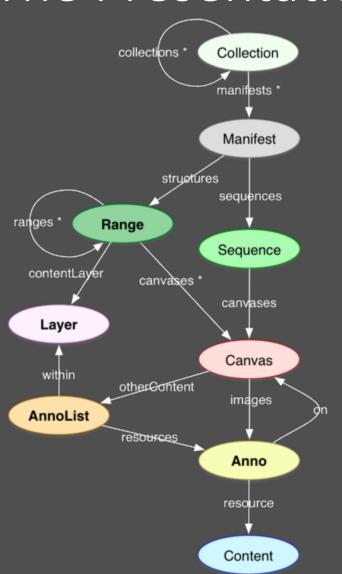
Structure

#### **Properties**

- Descriptive
- Rights
- Technical
- Linking

More to it that than this however...





#### More Structure!

- Ranges for Navigation (ToC)
- Layers for managing content

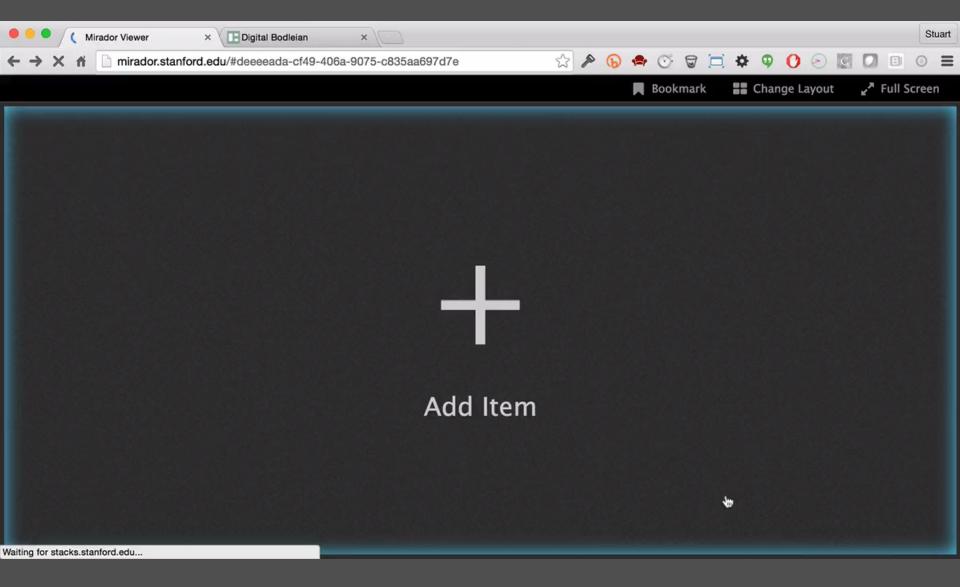
#### **Annotations!**

- For linking resources
- For commentary
- For hotspots
- Managed in Lists

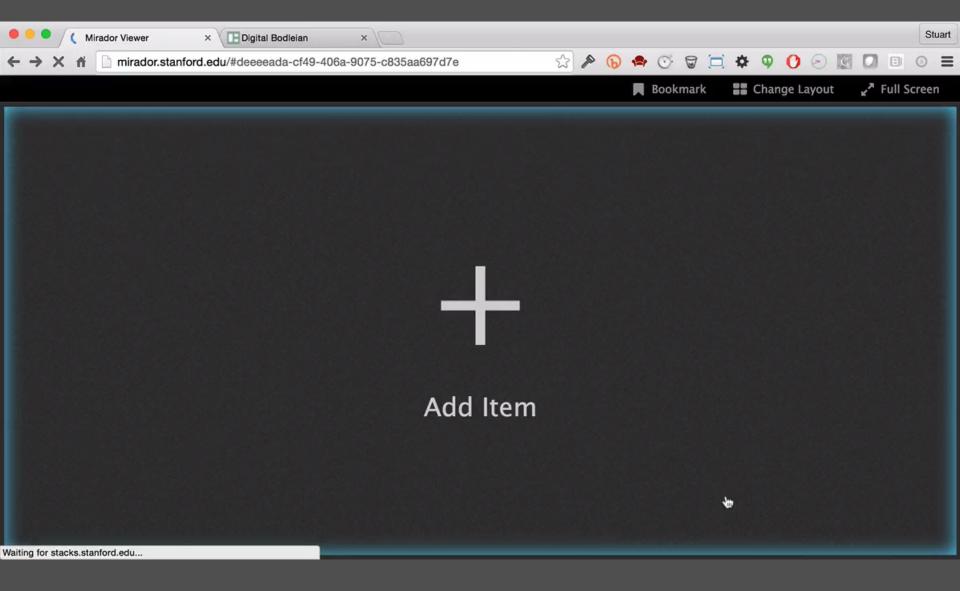




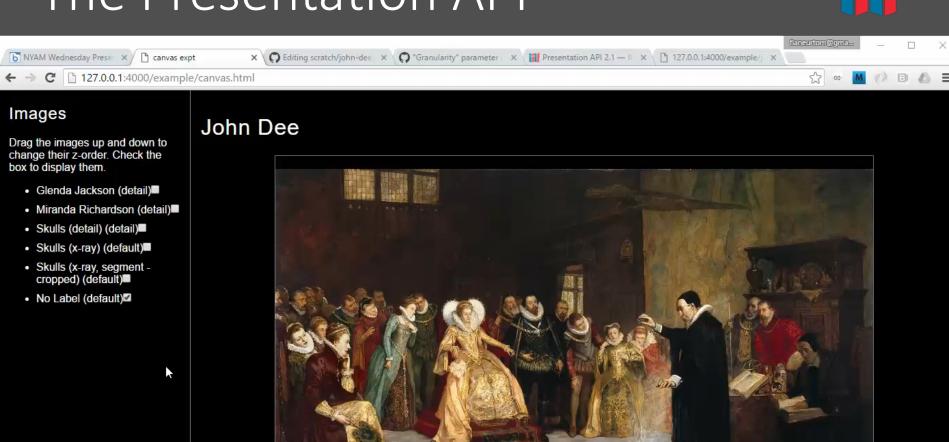






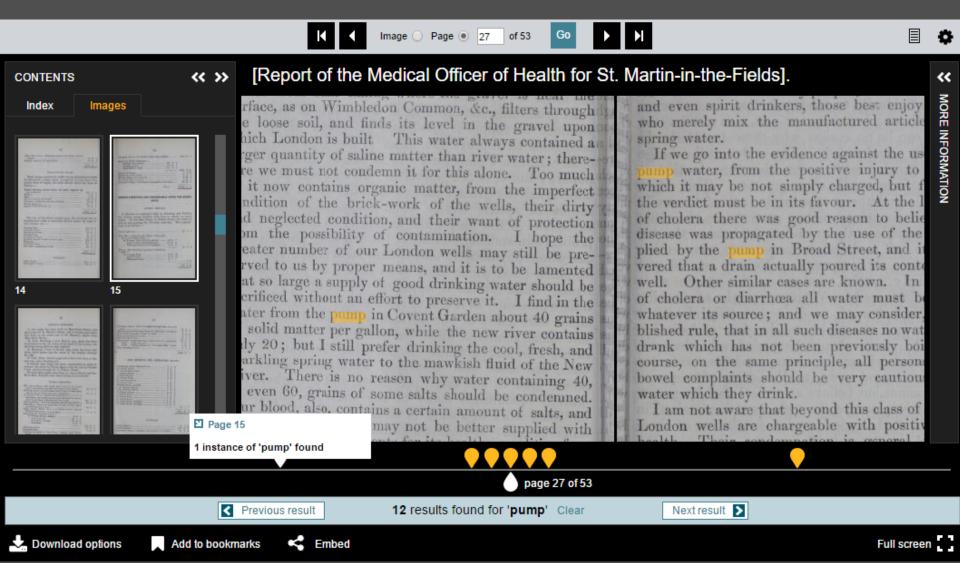






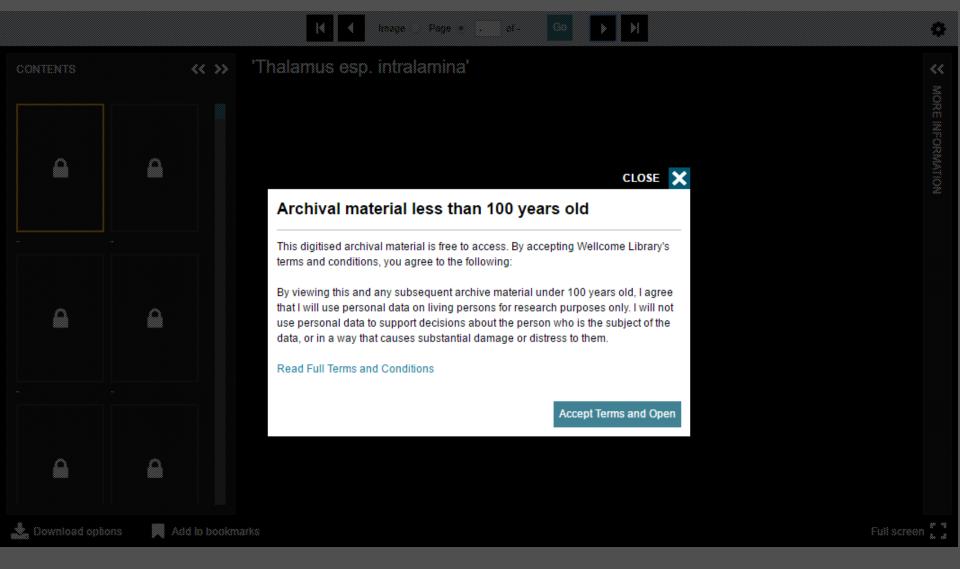
## The Search API





#### The Authentication API





## 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





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





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



International Image
Interoperability
Framework

Thank you!

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