

# **IIIF FOR OPEN ACCESS**

Dianne Weinthal MLIS, 2020

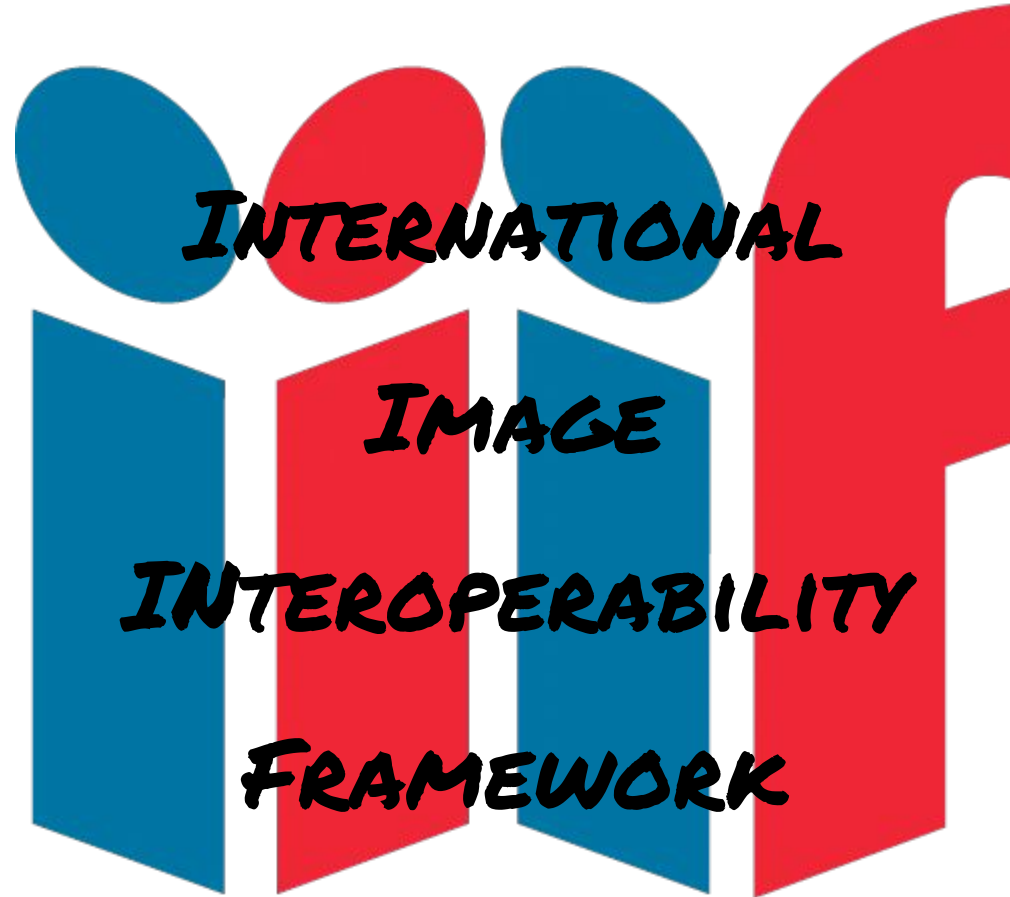
Dawn Childress, Librarian for Digital Collections and Scholarship

October 23, 2019

# OVERVIEW

- Introduction to IIF
- Concept
- Technology
- Model
- Resources
- Questions
- Hands on





**INTERNATIONAL**

**IMAGE**

**INTEROPERABILITY**

**FRAMEWORK**

## About IIF



Access to image-based resources is fundamental to research, scholarship and the transmission of cultural knowledge. Digital images are a container for much of the information content in the Web-based delivery of images, books, newspapers, manuscripts, maps, scrolls, single sheet collections, and archival materials. Yet much of the Internet's image-based resources are locked up in silos, with access restricted to bespoke, locally built applications.

A growing community of the world's leading research libraries and image repositories have embarked on an effort to collaboratively produce an interoperable technology and community framework for image delivery.

IIF (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.

## About IIF

# FOR OPEN ACCESS



Access to image-based resources is fundamental to research, scholarship and the transmission of cultural knowledge. Digital images are a container for much of the information content in the Web-based delivery of images, books, newspapers, manuscripts, maps, scrolls, single sheet collections, and archival materials. Yet much of the Internet's image-based resources are locked up in silos, with access restricted to bespoke, locally built applications.

A growing community of the world's leading research libraries and image repositories have embarked on an effort to collaboratively produce an interoperable technology and community framework for image delivery.

IIF (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.

# CONCEPT

Compare resources: <https://projectmirador.org/demo/> ,  
<https://sinai.library.ucla.edu/>

Zoom: <http://tomcrane.github.io/presentations/tile-exploder.html>

Display resources without hosting: <http://bit.ly/2LUuouJ>

Overlay and change transparency:  
<https://www.vam.ac.uk/articles/x-raying-balenciaga>

Exquisite corpse: <https://antlitz.ninja/>

# **TECHNOLOGY**

Image API

Presentation API

Authentication API

Search API



# TECHNOLOGY

## Image API

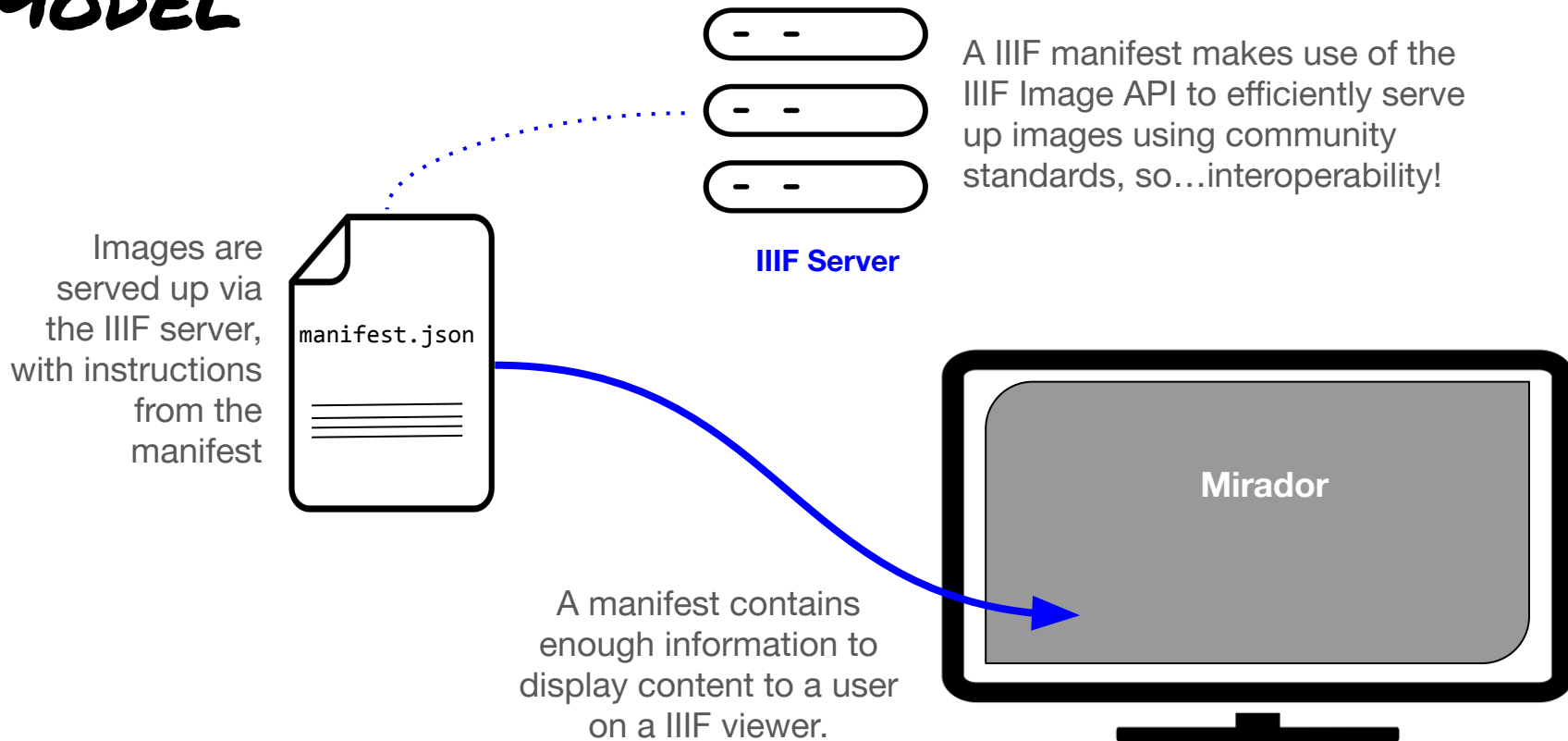
- Consistent way to access image derivatives
- Publish once, reuse often
- Standard URL structure for accessing images
- Supports rights/access management
- Supports tiling for faster loading and super zoom of hi-res images

# TECHNOLOGY

## Presentation API

- Information about the structure of the object
- Information to navigate the object
- Information about pagination, orientation, reading direction
- The Manifest

# MODEL



# WHAT CAN WE DO WITH IIIF?

- As scholars
- For collections
- As institutions

# So...

- IIF enables shared use of visual resources through a set of APIs
- IIF supports interoperability among institutions by developing shared standards
- We can work from materials that use those standards to digitally rebind manuscripts, compare images, build applications, and lots more

# RESOURCES

- IIF FAQ: <https://iif.io/community/faq/>
- List of tool, resources, demos: <https://github.com/IIF/awesome-iif>
- Digital scholarship summary:  
<https://ulib.iupui.edu/digitalscholarship/blog/iif-open-access-tool>
- In-browser manifest editor: <http://dmt.bodleian.ox.ac.uk/manifest-editor/>
- Internet Archive IIF-ify:  
<https://medium.com/@aeschylus/use-internet-archives-iif-endpoint-to-unlock-our-images-potential-9b0a3efa5b55>

**QUESTIONS?**

**HANDS ON!**

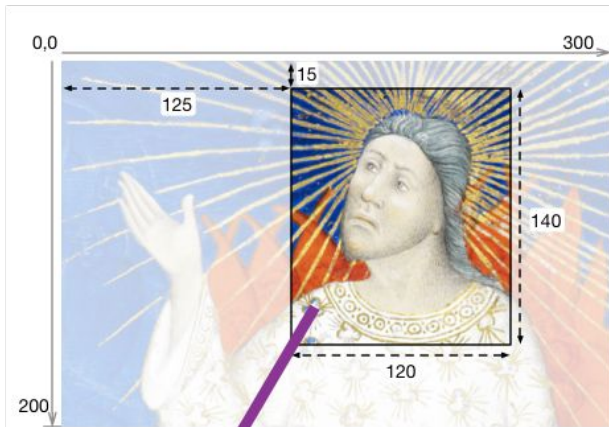




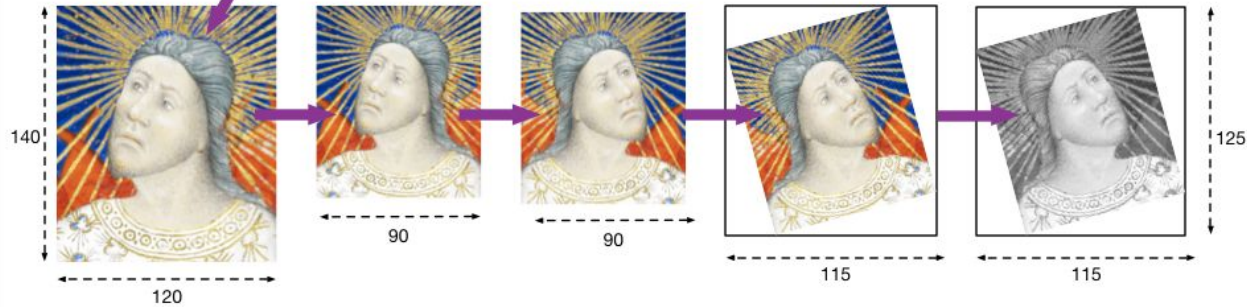
Image via e-codices:

<http://www.e-codices.ch/en/list/one/sl/0002>

[http://www.e-codices.unifr.ch/loris/cma/cma-1955-74/cma-1955-74\\_000b.jp2/650,2300,1000,750/full/0/default.jpg](http://www.e-codices.unifr.ch/loris/cma/cma-1955-74/cma-1955-74_000b.jp2/650,2300,1000,750/full/0/default.jpg)

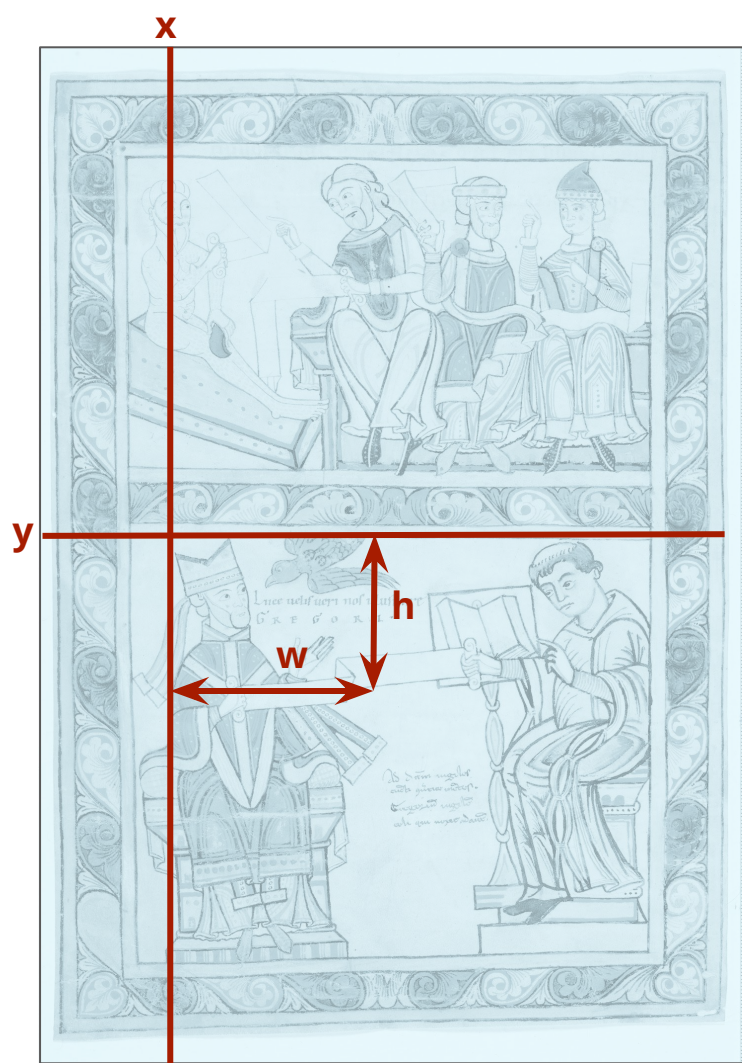


## Image Request URI Parameters



{scheme}://{server}/{prefix}/{identifier}/{region}/{size}/{rotation}/{quality}.{format}

[http://www.e-codices.unifr.ch/loris/cma/cma-1955-74/cma-1955-74\\_000b.jp2/650,2300,1000,750/full/0/default.jpg](http://www.e-codices.unifr.ch/loris/cma/cma-1955-74/cma-1955-74_000b.jp2/650,2300,1000,750/full/0/default.jpg)



Region

$xywh$

650,2300,1000,750

## Explore: URI Parameters

- Image API Playground: <https://www.learniiif.org/image-api/playground>
- Image Request URI Syntax (IIIF documentation):  
<https://iiif.io/api/image/2.1/#image-request-uri-syntax>

`{scheme}://{server}/{prefix}/{identifier}/{region}/{size}/{rotation}/{quality}.{format}`

`http :// www.e-codices.unifr.ch/loris / cma/cma-1955-74 / cma-1955-74_000b.jp2 /  
650,2300,1000,750 / pct:50 / 0 / default.jpg`