



IIF Future Directions

**For Practical
Applications of IIF final
webinar**

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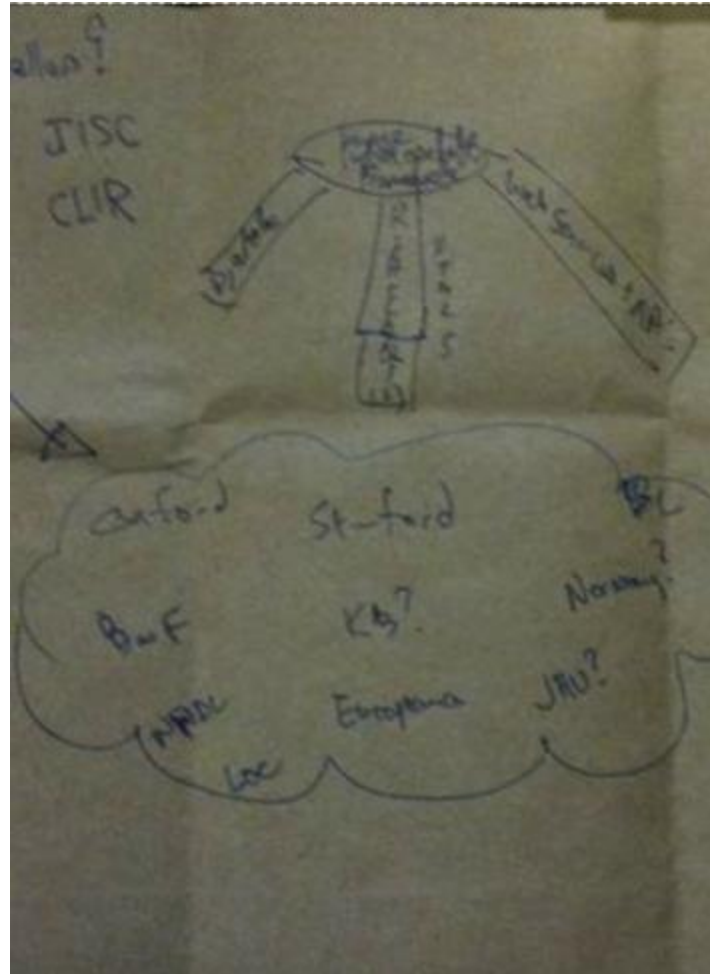
Agenda

- IIF 3D
- Maps
- IIF Cookbook
- the growing IIF Consortium

But first: a moment of reflection

- It all started on the back of a napkin in 2011

How it started



How it's going



IIF 3D



TSG Chairs: Ed Silverton (Mnemoscene), Ronald Haynes (Cambridge University), Julie Winchester (Duke University), Dawn Childress (UCLA), Tom Crane (Digirati)

- New group founded January 2022
- Lots of thorny problems!
- IIF design principle: "Make the easy stuff easy, and the hard stuff possible"

IIIF 3D



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Expected initial deliverables:

- Adding a third physical axis to the traditional canvas model, with accommodation backward compatibility
- viewing of 3D media and combined 2D/3D media
- adding associated annotations and linked metadata



Reset + - Astronaut One Small Step (video) Vermeer Perpetual Motion Machine



National Gallery of Art Collection Highlights



Self-Portrait



Olive Grove (oil on paper)



Farmhouse in Provence



Le Moulin



The Feast of the Gods



Marcellus (Raphael's Spina Pinna)



Lucca



Man with Red Umbrella (Vermeer)

Codex Forster II (National Art Library, Museum no. MSL/1876/Forster/141/II)



front cover



inside of front cover



001r



001v



002r



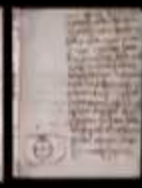
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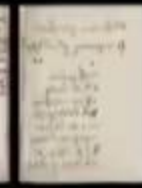
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IIF + Maps

TSG Chairs: Michael Appleby (Yale), Bryan Haberberger (Center for Digital Humanities at Saint Louis University), Eliot Jordan (Princeton), Bert Spaan

“[I]ntends to promote interoperability around geospatial description of digitized resources” = unlocking the potential of maps served via IIF

IIF + Maps

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“[I]ntends to promote interoperability around geospatial description of digitized resources” = unlocking the potential of maps served via IIF

- Published [navPlace extension](#) in October 2021
 - Connects IIF materials to coordinates on a map (e.g., geotagging photographs of historical buildings)

Provide a IIIF Collection, Manifest, Range or Canvas URL with the IIIF Content State URL parameter `?iif-content={url}`. Pan and zoom are supported. Supplying direct coordinates is available below the map. **[Shift] + [Z]** will zoom out for a holistic view. Clicking any point on the map will show applicable information about the target when the URI is resolvable.



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en: Glen -- Aberystwyth

en: Glen took this picture while romping about Aberystwyth, which he has learned to spell.

IIIF UV

Leaflet | Map data © OpenStreetMap contributors, CC-BY-SA, Imagery © Mapbox

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“[I]ntends to promote interoperability around geospatial description of digitized resources” = unlocking the potential of maps served via IIF

- Published [navPlace extension](#) in October 2021
 - Connects IIF materials to coordinates on a map (e.g., geotagging photographs of historical buildings)
- Working on georeferencing extension to align historical maps with map layers from Google, Open Street Maps, etc.



Allmaps is a set of [open source tools](#) that make it easier and more fun to search, explore, georeference and work with collections of digitised maps.

Allmaps works with any image repository that supports the [International Image Interoperability Framework \(IIIF\)](#).

By using [tiled IIIF images](#), JavaScript and WebGL, Allmaps can [warp georeferenced maps in the browser](#). This eliminates the need for running a map tile server or WMS server.

All components rely on a simple JSON metadata structure that holds information about each map's control points and mask. This metadata structure anticipates the upcoming JSON schema prepared by the [IIIF Community](#), and is based on W3C's [Web Annotation](#) specification. Please refer to the [IIIF Map Collections](#) repository for exemplary data.

Allmaps and its components are far from finished. For now, you can explore the following links:

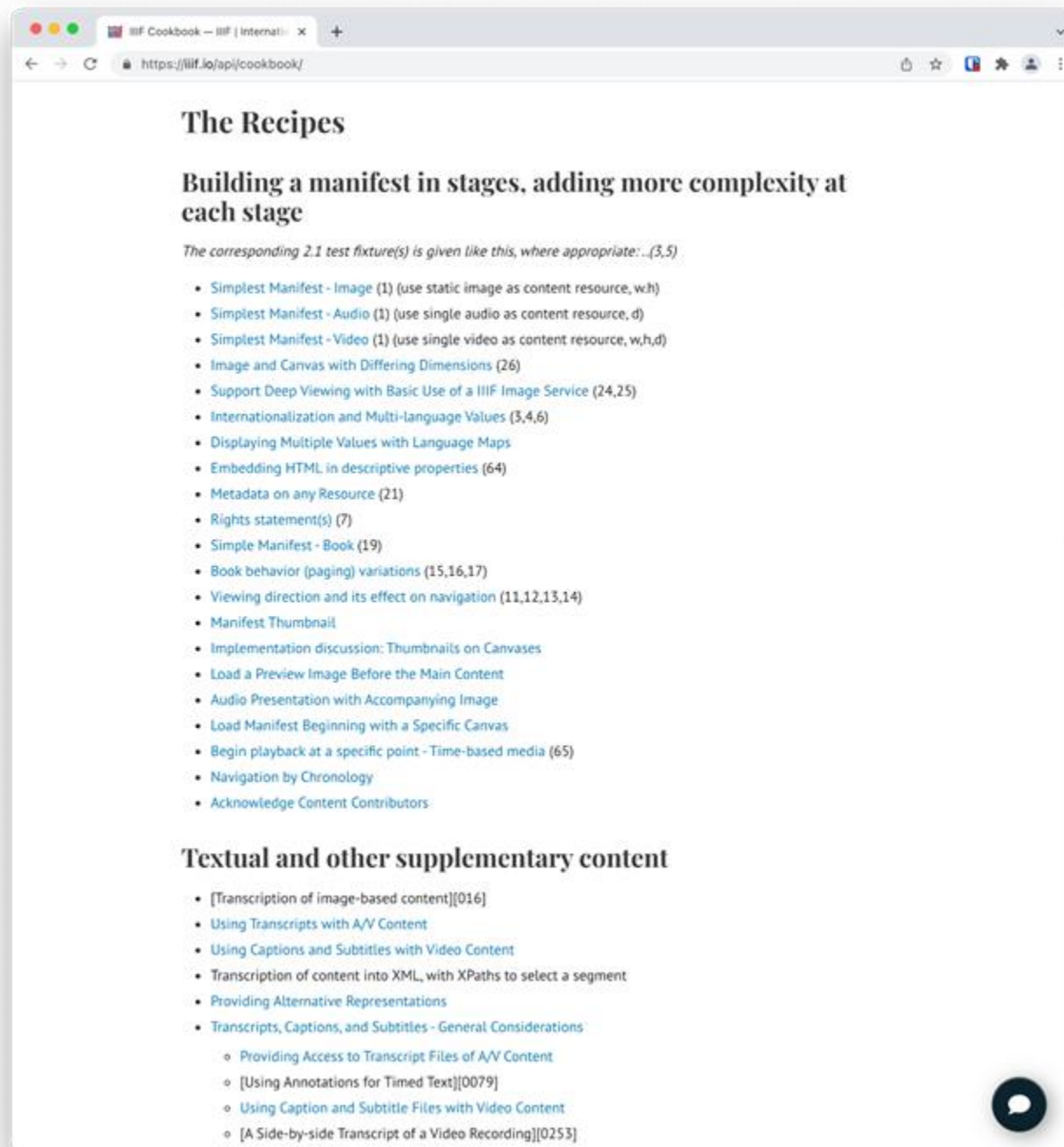
IIIF Cookbook

<https://iiif.io/api/cookbook/>

The cookbook contains recipes of common best practices.

Recipes are sorted by categories.

The recipes are created by members of the IIIF community.



Anatomy of a Cookbook Recipe

Use case

Implementation note

Restrictions

Example

Manifest

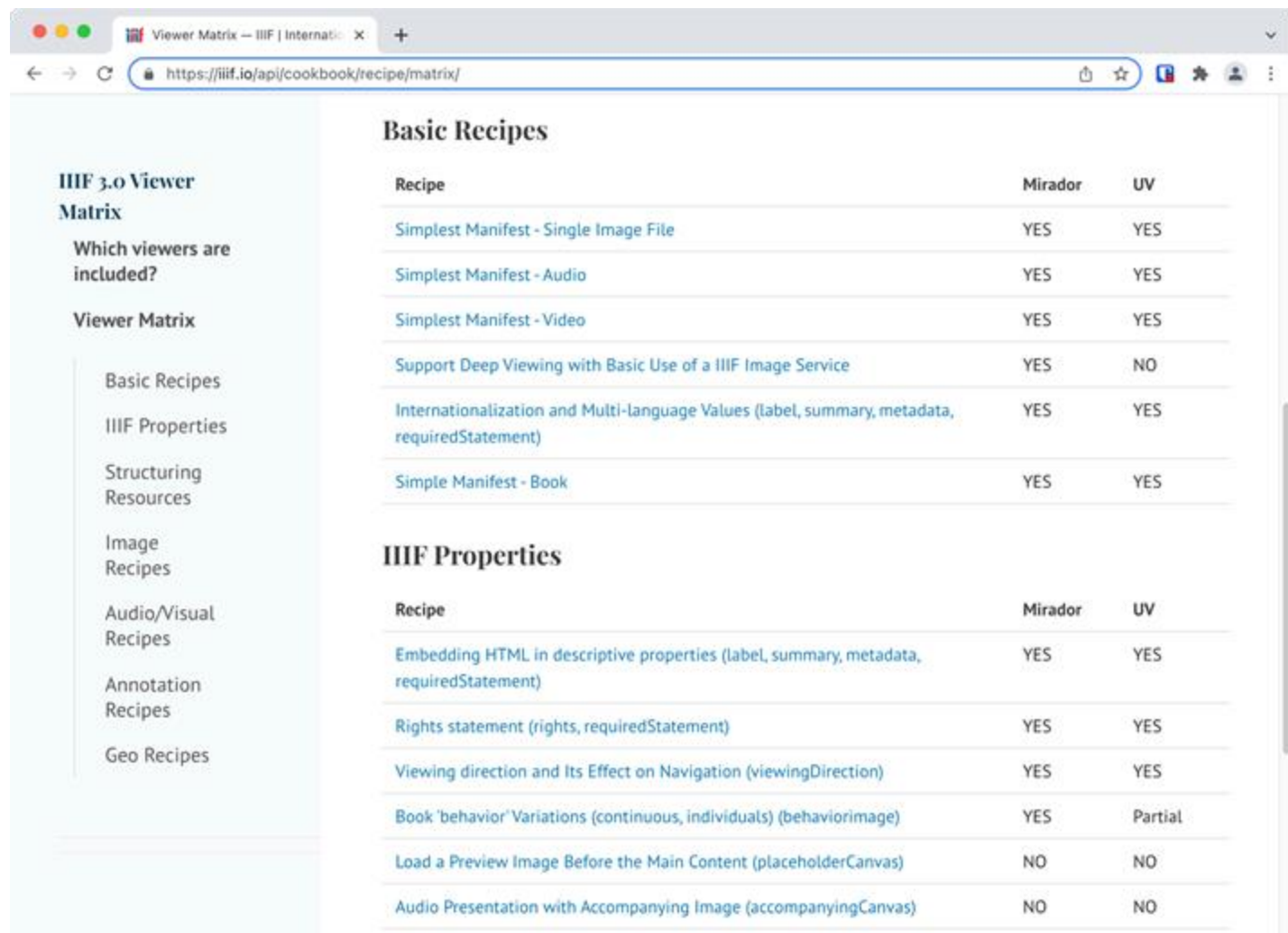
IIIF Cookbook - Viewer Support Matrix

<https://iiif.io/api/cookbook/recipe/matrix/>

Automatically updated from metadata in recipes.

Shows feature support in Mirador and UV (to be extended).

Support levels: yes, no, partial.



The screenshot shows a web browser displaying the IIIF Viewer Matrix page. The page is titled "IIIF 3.0 Viewer Matrix" and includes a navigation menu on the left with categories like "Basic Recipes", "IIIF Properties", "Structuring Resources", "Image Recipes", "Audio/Visual Recipes", "Annotation Recipes", and "Geo Recipes". The main content area is divided into two sections: "Basic Recipes" and "IIIF Properties". Each section contains a table with columns for "Recipe", "Mirador", and "UV".

Recipe	Mirador	UV
Simplest Manifest - Single Image File	YES	YES
Simplest Manifest - Audio	YES	YES
Simplest Manifest - Video	YES	YES
Support Deep Viewing with Basic Use of a IIIF Image Service	YES	NO
Internationalization and Multi-language Values (label, summary, metadata, requiredStatement)	YES	YES
Simple Manifest - Book	YES	YES

Recipe	Mirador	UV
Embedding HTML in descriptive properties (label, summary, metadata, requiredStatement)	YES	YES
Rights statement (rights, requiredStatement)	YES	YES
Viewing direction and Its Effect on Navigation (viewingDirection)	YES	YES
Book 'behavior' Variations (continuous, individuals) (behaviorImage)	YES	Partial
Load a Preview Image Before the Main Content (placeholderCanvas)	NO	NO
Audio Presentation with Accompanying Image (accompanyingCanvas)	NO	NO

IIIF Consortium

IIF Consortium

Formed in June 2015 in Oxford, England, to sustain and support the work of the wider IIF community for the benefit of all.

- [63 institutions](#) providing financial support
- 3 staff member roles
- Governance and oversight
 - Executive & Operating Committees
 - Technical Review Committee (TRC)

IIIF Consortium

Supporting:

- 14 community and technical groups
- Annual conference and Working Meeting
- Successful grant projects around the world
- 10 training cohorts per year
- Travel scholarships and event support



Community/Consortium

Join the Consortium

Support the development of community-driven APIs and shared technologies providing rich access to digitized image, audio, and video resources.

[Request to join](#)



Thanks!

Stay in touch:

josh.hadro@iif.io

Join the conversation:

[https://iif.io/community/groups/
iif-discuss@googlegroups.com](https://iif.io/community/groups/iif-discuss@googlegroups.com)