

Descriptive Metadata Alignment and Interoperability in IIIF

Mark A. Matienzo, DPLA

@anarchivist / @dpla / <http://matienzo.org/>

Access to the World's Images — 11 May 2016



Semantic alignment

Ensuring consistency of meaning

- Vocabulary and ontology choice
 - Metadata mapping
 - Linking
-

Reuse is king.

Vocabulary and ontology choice

JSON-LD Context

```
{
  "@context": [{
    "sc": "http://iiif.io/api/presentation/2#",
    "iiif": "http://iiif.io/api/image/2#",
    "exif": "http://www.w3.org/2003/12/exif/ns#",
    "oa": "http://www.w3.org/ns/oa#",
    "cnt": "http://www.w3.org/2011/content#",
    "dc": "http://purl.org/dc/elements/1.1/",
    "dcterms": "http://purl.org/dc/terms/",
    "dctypes": "http://purl.org/dc/dcmitype/",
    "doap": "http://usefulinc.com/ns/doap#",
    "foaf": "http://xmlns.com/foaf/0.1/",
    "rdf": "http://www.w3.org/1999/02/22-rdf-syntax-ns#",
    "rdfs": "http://www.w3.org/2000/01/rdf-schema#",
    "xsd": "http://www.w3.org/2001/XMLSchema#",
    "svcs": "http://rdfs.org/sioc/services#",
    "as": "http://www.w3.org/ns/activitystreams#",
    ...
  ]
}
```



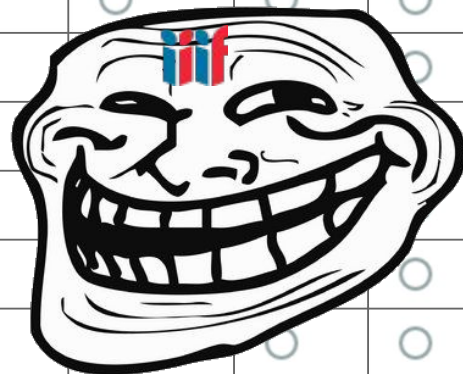
X \Rightarrow ***y***

Metadata mapping

IIIF Presentation API metadata requirements

Field	Meaning
⚠	Required
●	Recommended
○	Optional
⊘	Not Allowed

	label	metadata	description	thumbnail	attribution	license	logo
Collection	⚠	●	●	●	○	○	○
Manifest	⚠	●	●	●	○	○	○
Sequence	○	○	○	○	○	○	○
Canvas	⚠	○	○	●	○	○	○
Annotation	○	○	○	○	○	○	○
AnnotationList	○	○	○	○	○	○	○
Range	⚠	○	○	○	○	○	○
Layer	⚠	○	○	○	○	○	○
Image Content	○	○	○	○	○	○	○
Other Content	○	○	○	○	○	○	○


























































Problem?

No.

Consider the scope of the IIIF Presentation API.

IIIF Presentation API metadata requirements

Field	Meaning
	Required
	Recommended
	Optional
	Not Allowed

	label	metadata	description	thumbnail	attribution	license	logo
Collection							
Manifest							
Sequence							
Canvas							
Annotation							
AnnotationList							
Range							
Layer							
Image Content							
Other Content							

The metadata property

- Represent key/value pairs, intended for human presentation, e.g in a viewer
- **NO SEMANTICS**

```
"metadata": [  
  {"label": "Author", "value": "Anne Author"},  
  {"label": "Published", "value": [  
    {"@value": "Paris, circa 1400", "@language":  
"en"},  
    {"@value": "Paris, environ 1400", "@language":  
"fr"}  
  ]},  
  {"label": "Notes", "value": ["Text of note 1",  
"Text of note 2"]},  
  {"label": "Source", "value": "<span>From: <a  
href=\"http://example.org/db/1.html\">Some  
Collection</a></span>"}  
]
```

The navDate property

- Used for navigation only; expressed as `xsd:dateTime`
- Use case: timeline or calendar-based presentations
- Actually considered a *presentation* property

Mapping your data to the metadata property

- What information is necessary to present in the context of a IIIF viewer?
(This is not a technical question, this is a user experience question!)
- Recommendation: develop one or more profiles from the content standards or schemas that you use, and **document them heavily**.

Linking

Because pointing is better than nothing

Linking directions



- IIIF resources to other resources
- Other resources to IIIF resources

Example IIIF linking properties

The license property

- External resource (URIs only)
- Potential sources: Creative Commons licenses, RightsStatements.org vocabulary, links to human readable pages

The seeAlso property

- Used point to machine-readable metadata related to an object (XML, RDF, etc.)
- **Please use this!**

The related property

- Intended to refer to other resources for display or download
- E.g. an IIIF viewer; PDF download, etc

Thanks!

Mark A. Matienzo, DPLA

@anarchivist / @dpla / <http://matienzo.org/>

Access to the World's Images — 11 May 2016