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How Meta is your Metadata?

Designing a Meta-Metadata
Specification for Hyrax

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The problem

Metadata profiles need to be written and then manually translated into code

- Metadata modelling is hard and time-consuming
- Hyrax is very flexible
 ...but configuring new metadata properties is fiddly, and needs a developer

M3 Working Group

- Shared, community developed approach to representing metadata models
- Included developers, metadata analysts, hyrax implementers, non-hyrax implementers
- Not application specific

What's been done

- Shared terminology for meta-metadata
- Review of format options
- Draft specification!
- Json schema
- Example data models
- GitHub repo with yaml and json schema validation

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profile:

administrative information about the metadata profile/data model being defined by the file

mappings:

definition of the mappings to different services or target schemas referenced

classes:

definition of classes* used

properties:

property name display label definition usage guidelines requirement controlled values sample value property uri available on range data type syntax cardinality index documentation indexing validations mapping

Ensuring consistency

- A written example and instructions is great
 ... but creating YAML files manually can easily lead to variations
- This might be OK for humans, but computers prefer exactness

cardinality:

minimum: "1"

date_created:

- default: 'Date
 created'

cardinality: minimum: 1

Date_created:
 default: "Date

created"

Validation

- Validation of the profile with a YAML validation tool
 - checks for syntactic errors, like a missing quote mark or curly brace
- Validation of the profile against a JSON Schema
 - checks that the content adheres to a set of rules

```
"indexing": {
           "type": "array",
           "items": {
                                      indexing:
             "type": "string",
                                       - "searchable"
             "enum": [
               "displayable",
                                       - "facetable"
               "facetable",
               "searchable",
               "sortable",
               "stored searchable",
               "stored sortable",
                                       indexing:
               "symbol",
               "fulltext searchable"
                                        - "foo"
                                        - "bar"
```

M₃ & Hyrax

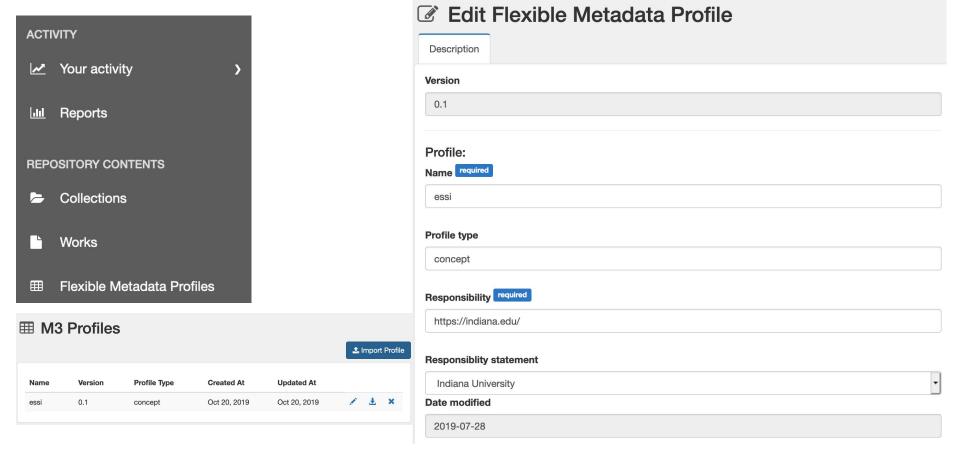
- Could we have Hyrax consuming M3 profiles?
- Could we dynamically generate models, forms, indexers, presenters?
- Could metadata librarians define and maintain their metadata profiles without developers having to implement them?

Pre-M3 - Approaches in the wild

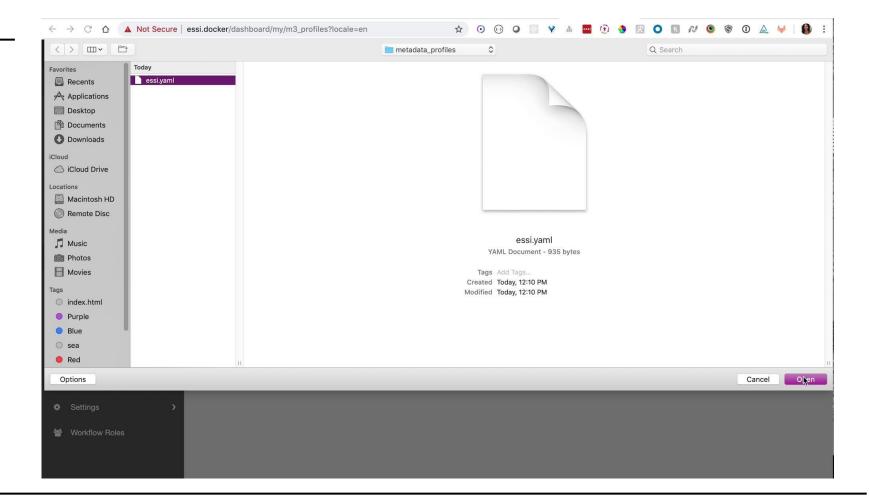
- DIY lots of examples of local work customisation
- Gems:
 - Dog Biscuits
 - Scooby Snacks
 - Archetypes

Flexible Metadata at Indiana

- Prototyping dynamic metadata generation with an m3 profile
 - UI for profile loading / creating / editing
 - Associating properties with works, indexers, presenters and forms
 - Services for loading and validating



Prototyping dynamic metadata generation



Specification Maintenance

Define processes for reviewing contributions and suggestions to the specification, review contributions, specification updating.

Specification maintenance group, similar to the <u>URI Selection Working Group</u>

Documentation Generation

Jekyll/GitHub setup and configuration recommendations

Create templates for documentation outputs

questions?

https://github.com/samvera-labs/houndstooth Samvera slack #m3