Easing the pain of linked data vocabularies: http://j.mp/or15vocabs

Team Members

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The Problem

- Using RDF vocabularies for metadata creation and enhancement often relies on availability and performance of external services
  - e.g. getting labels for subject headings to populate a search index

- These services, unfortunately, are not always reliable (e.g. SPARQL endpoints)

- Any implementation should be reusable across applications and ideally software independent
A Potential Solution

- Implement a mechanism that allows you to use selector patterns to specify subsection of triples you care about, e.g. skos:prefLabel for LCSH

- Provide a configurable cache layer for remote resources to speed up lookups on often-requested subjects

- The most promising solution is Linked Data Fragments (http://linkeddatafragments.org/)
  - Simple standardized requests that are easily cacheable (less unique than SPARQL queries) with most query processing done client side
Mockup of Interactions

GET http://example.org/viaf
?s=viaf:103953801
&p=.schema:name
Accept: application/ld+json

HTTP/1.1 200 OK
{
  ...,
  "@id": "viaf:103953801",
  "schema:name": [
    "Chagall, Marc",
    "Шагал, Марк",
    "שאגאל, מרק"
  ],
  ...
}

Work in progress: http://j.mp/hy-ldf