Another RDF Encoding Form (aREF)

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Another RDF Encoding Form?

$$aREF = JSON-LD \ \textit{light} + Turtle \ \textit{light}$$

- Based on maps, strings, and arrays like JSON
- Easy literals like Turtle:
 "literal@language-tag"
 "literal^data:type"

What's wrong with existing serializations?

- RDF/XML is awful
- RDF/JSON is too verbose
- ► Turtle is one big string (parsing required)
- ▶ JSON-LD is complex (13 keywords *WTF?!*)

None of them are good for writing RDF data right in your code.

Purpose of aREF

Read and write RDF data in any code or data structures (JSON, YAML, INI files, Perl code, Ruby, Phython....)

```
aREF
Serialization <--> List-Map-Structures <==> RDF Triples
(e.g. YAML) (data structure)
```

Example 1: Serialization in YAML

Example 2: Serialization in Perl-Code

```
$rdf = {
  _id => 'http://example.com/people#john',
  foaf_name => 'John Smith',
  foaf_age => '41^xsd:integer',
  foaf_homepage => [
       _id => 'http://personal.example.org/',
       dct_modified => '2010-05-29^xsd:date',
     }.
    'http://work.example.com/jsmith/',
  dct_description => 'a nice guy@en',
  foaf_knows => { foaf_name => "Alice" },
};
```

Getting started

- Current specification and issue tracker http://gbv.github.io/aREF/
- Preliminary implementation in Perl: https://metacpan.org/release/Catmandu-RDF

Feedback welcome!