

DASISH annotations in Open Annotation

-Expressing annotations and relations between sources using standard vocabularies











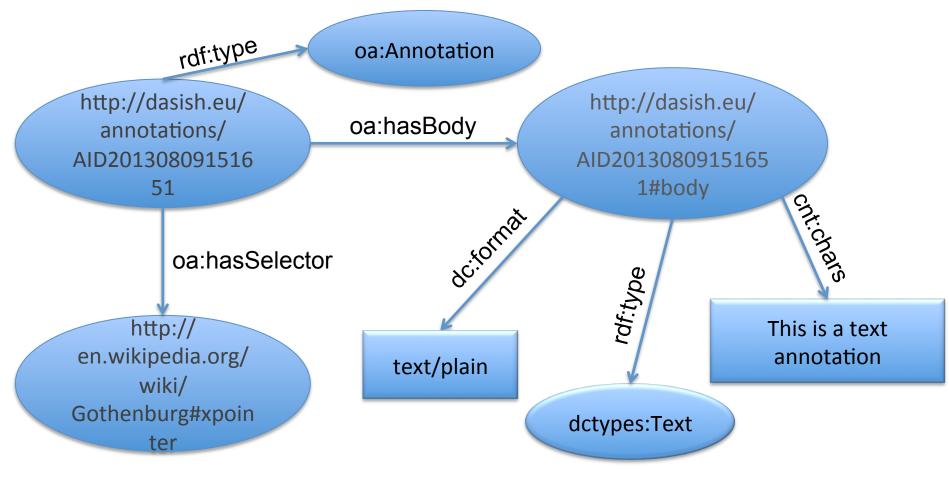
New Annotation in XML

```
<annotation xmlns="http://www.dasish.eu/ns/addit"</pre>
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns:xhtml="http://www.w3.org/1999/xhtml"
   xsi:schemaLocation="http://www.dasish.eu/ns/addit http://dasish.eu/DASISH-schema.xsd"
   URI="tempAID20131001160628"
   timeStamp="2013-10-01T14:05:41.000Z">
   <owner ref="http://dasish.eu/users/Ulxyz"/>
   <headline>Gothenburg - Wikipedia, the free encyclopedia
    <body type="Note" ref="tmp20131001160628">This is a text annotation</body>
   <targetSources>
       <target>
        <newSource xml:id="tmp20131001160628">
        http://en.wikipedia.org/wiki/Gothenburg#xpointer(start-point(string-range(//div[@id="mw-
       content-
         text"]/p[2]/text()[1],",15))/range-to(string-range(//div[@id="mw-content-text"]/p[2]/text()[1],",22)))</
       link>
        <version>2013-10-01T14:05:41.000Z/version>
        </newSource>
       </target>
   </targetSources>
    <permissions ref="tmpPermissionsListID20131001160628"/>
</annotation>
```





Simplified graph for text annotation in Open Annotation









Text annotation in Turtle

```
@prefix oa: <http://www.w3.org/ns/oa#> .
@prefix cnt: <http://www.w3.org/2011/content#> .
@prefix dc: <http://purl.org/dc/elements/1.1/> .
@prefix dctypes: <http://purl.org/dc/dcmitype/> .
</http://dasish.eu/annotations/AID> a oa:Annotation ;
    oa:hasBody <http://dasish.eu/annotations/AID20130809151651#body> ;
    oa:hasSelector <http://en.wikipedia.org/wiki/Gothenburg#xpointer()> .
</http://dasish.eu/annotations/AID#body> a cnt:ContentAsText, dctypes:Text ;
    cnt:chars "This is a text annotation" ;
    dc:format "text/plain" .
```

Turtle (Terse RDF Triple Language) is a format for expressing data in the Resource Description Framework (RDF) data model, similar to SPARQL.

~wikipedia







Text annotation in RDF-XML

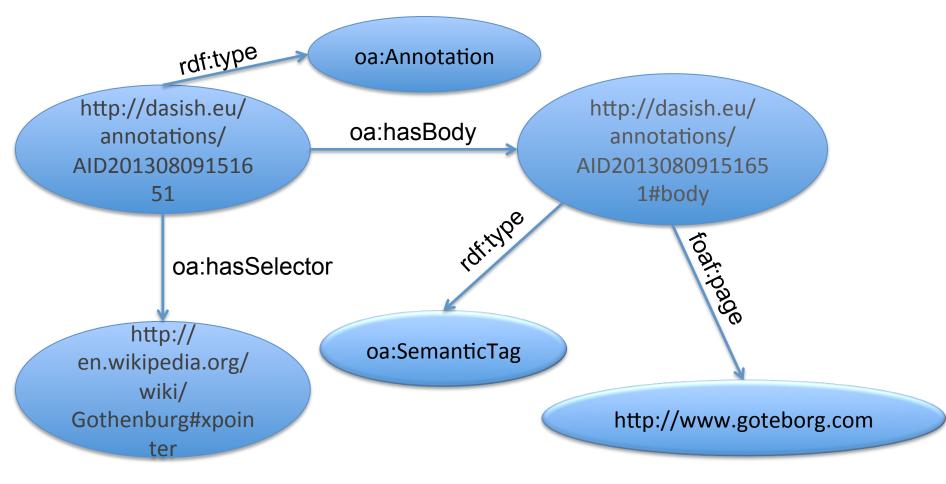
```
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
     xmlns:oa="http://www.w3.org/ns/oa#"
     xmlns:cnt="http://www.w3.org/2011/content#"
     xmlns:dc="http://purl.org/dc/elements/1.1/">
 <rdf:Description rdf:about="http://dasish.eu/annotations/AID">
  <oa:hasBody rdf:resource="http://dasish.eu/annotations/AID#body" />
  <oa:hasSelector rdf:resource="http://en.wikipedia.org/wiki/Gothenburg#xpointer()"/>
 </rdf:Description>
 <rdf:Description rdf:about="http://dasish.eu/annotations/AID#body">
     <rdf:type rdf:resource="http://purl.org/dc/dcmitype/Text"/>
     <cnt:chars>This is a text annotation</cnt:chars>
     <dc:format>text/plain</dc:format>
 </rdf:Description>
</rdf:RDF>
```







Semantic Tag via Open Annotation





@prefix rdf:





```
@prefix oa:
                                     <a href="http://www.w3.org/ns/oa#">http://www.w3.org/ns/oa#>.</a>
@prefix cnt:
                                     <a href="http://www.w3.org/2011/content#">http://www.w3.org/2011/content#>.</a>
                                     <a href="http://purl.org/dc/elements/1.1/">http://purl.org/dc/elements/1.1/>.</a>
@prefix dc:
                                    <a href="http://purl.org/dc/terms/">http://purl.org/dc/terms/> .
@prefix dcterms:
                                     <a href="http://purl.org/dc/dcmitype/">http://purl.org/dc/dcmitype/">...
@prefix dctypes:
                                     <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/">.</a>
@prefix foaf:
<a href="http://dasish.eu/annotations/AID">http://dasish.eu/annotations/AID</a> a oa:Annotation;
  oa:hasBody <a href="http://dasish.eu/annotations/AID#body">http://dasish.eu/annotations/AID#body</a>;
  oa:hasTarget <a href="http://dasish.eu/sources/SID">http://dasish.eu/sources/SID</a>;
  oa:annotatedBy <a href="http://dasish.eu/users/Ulxyz">http://dasish.eu/users/Ulxyz</a>;
  oa:serializedBy <a href="http://dasish.eu/web-annotator">http://dasish.eu/web-annotator</a>.
<a href="http://dasish.eu/users/Ulxyz">http://dasish.eu/users/Ulxyz</a> a foaf:Person;
   foaf:openid <http://provider.of.open.id/id> ;
   foaf:name "name" .
<http://dasish.eu/annotations/AID#body> a cnt:ContentAsText, dctypes:Text;
   cnt:chars "This is a text annotation";
   dc:format "text/plain" .
<a href="http://dasish.eu/sources/SID">http://dasish.eu/sources/SID</a> a oa:SpecificResource;
   oa:hasSelector <a href="http://en.wikipedia.org/wiki/Gothenburg#xpointer">http://en.wikipedia.org/wiki/Gothenburg#xpointer</a>()>;
   oa:hasSource <a href="http://en.wikipedia.org/wiki/Gothenburg">http://en.wikipedia.org/wiki/Gothenburg</a>;
   dc:title "Gothenburg - Wikipedia, the free encyclopedia";
   dcterms:hasVersion <a href="http://dasish.eu/cached/CID1">http://dasish.eu/cached/CID1</a>.
<a href="http://dasish.eu/cached/CID1">http://dasish.eu/cached/CID1</a> a dctypes:Image ;
  dc:format "image/png";
  oa:serializedBy <a href="http://screenshot-tool.org">http://screenshot-tool.org</a>.
<http://en.wikipedia.org/wiki/Gothenburg#xpointer()> a oa:FragmentSelector;
   dcterms:conformsTo <a href="http://tools.ietf.org/rfc/rfc3023">http://tools.ietf.org/rfc/rfc3023</a> ;
    rdf:value "http://en.wikipedia.org/wiki/Gothenburg#xpointer()".
```

http://www.w3.org/1999/02/22-rdf-syntax-ns# .

Adding additional information in the serialization

Vetenskapsrådet www.snd.gu.se



Pundit uses RDF for communication ... in a strange way

- Open Annotation is not used as a vocabulary
- References between annotation, text, relations is not expressed

For the annotation framework all this could be done better.







Pundit communication format client <-> server

```
-<rdf:RDF>
    - <rdf:Description rdf:about="http://www.w3.org/1999/02/22-rdf-syntax-ns#Property">
              <rdfs:label>RDF Property</rdfs:label>
         </rdf:Description>
   - <rdf:Description rdf:about="http://purl.org/pundit/ont/ao#fragment-text">
              <rdfs:label>Text Fragment</rdfs:label>
         </rdf:Description>
    -<rdf:Description rdf:about="http://www.w3.org/2000/01/rdf-schema#Resource">
              <rdfs:label>Resource</rdfs:label>
         </rdf:Description>
    -<rdf:Property rdf:about="http://purl.org/pundit/ont/oa#identifies">
              <rdfs:label>identifies</rdfs:label>
              <altLabel>identifies</altLabel>
         -<description>
                   The selected text fragment is a Person, a Work, a Place or a well defined Entity
              </description>
         </rdf:Property>
    - <fragment-text rdf:about="http://metasound.dibet.univpm.it/release_bot/build/examples/dante-1.html#xpointer(start-p
        to(string-range(//DIV[@about='http://metasound.dibet.univpm.it/release_bot/build/examples/dante-1.html']/DIV[1]/P[2]
              <rdfs:label>masterpiece </rdfs:label>
              <altLabel>masterpiece </altLabel>
              <description>masterpiece </description>
              <a href="http://release-bot.thepund.it/build/examples/authors_index.html"/>
<a href="http://release-bot.thepund.it/build/examples/authors_index.ht
              <isPartOf rdf:resource="http://metasound.dibet.univpm.it/release bot/build/examples/dante-1.html"/>
         </fragment-text>
    -<rdfs:Resource rdf:about="http://www.w3.org/2006/03/wn/wn20/instances/synset-masterpiece-noun-1">
              <rdfs:label>masterpiece</rdfs:label>
         -<description>
                   (the most outstanding work of a creative artist or craftsman)
              </description>
              <prefLabel>masterpiece</prefLabel>
         </rdfs:Resource>
   </rdf:RDF>
```



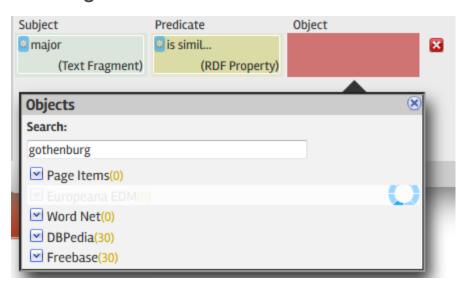
Vetenskapsrådet



The good parts in Pundit

- Takes advantage of RDF, relation types are configurable
- Good intregration with dbpedia, freebase, Word Net etc.
- Describe relations between selected fragments
- Easy to create relations

Reimplementing this in a firefox extension would be a huge task.







Relations

Current way of describing a difference:

```
<br/>
<br/>
<br/>
<br/>
<br/>
<relation>different</relation><br/>
<this ref="http://dasish.eu/sources/SIDbbbb"/><br/>
<that ref="http://dasish.eu/sources/SIDrrrr"/></body>
```

Describing a difference in RDF using a standard vocabulary:

```
<rdf:Description rdf:about="http://dasish.eu/sources/SIDbbbb">
    <owl:differentFrom rdf:resource="http://dasish.eu/sources/SIDrrrr"/>
    </rdf:Description>
```

