Open Annotations

Open Annotations schema

Example of an OAC RDF file, being used in VoV demo

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF
xmlns:cnt="http://www.w3.org/2008/content#"
xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:dcterms="http://purl.org/dc/terms/"
xmlns:dms="http://dms.stanford.edu/ns/"
xmlns:exif="http://www.w3.org/2003/12/exif/ns#"
xmlns:foaf="http://xmlns.com/foaf/0.1/"
xmlns:oac="http://www.openannotation.org/ns/"
xmlns:ore="http://www.openarchives.org/ore/terms/"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
>

<rdf:Description rdf:about="urn:uuid:c437ff82-4081-4fad-a89c-1a8a3093c80f">
<rdf:type rdf:resource="http://dms.stanford.edu/ns/TextAnnotation"/>
<rdf:type rdf:resource="http://www.openannotation.org/ns/Annotation"/>
<oac:hasBody rdf:resource="http://vov.indiana.edu/demo1/Line-f1r-15"/>
<oac:hasTarget rdf:resource="http://vov.indiana.edu/demo1/Canvas-f1r#xywh=73,83,240,135&amp;t=npt:0,5"/>
</rdf:Description>

<rdf:Description rdf:about="http://vov.indiana.edu/demo1/Canvas-f1r#xywh=73,83,240,135&amp;t=npt:0,5">
<rdf:type rdf:resource="http://dms.stanford.edu/ns/CanvasSegment"/>
<dcterms:isPartOf rdf:resource="http://vov.indiana.edu/demo1/Canvas-f1r"/>
</rdf:Description>

<rdf:Description rdf:about="http://vov.indiana.edu/demo1/Line-f1r-15">
<rdf:type rdf:resource="http://purl.org/dc/dcmitype/Text"/>
<rdf:type rdf:resource="http://www.w3.org/2008/content#ContentAsText"/>
<dc:title>Video #1</dc:title>
<cnt:chars>Cheerios Rocket kit</cnt:chars>
<cnt:characterEncoding>UTF-8</cnt:characterEncoding>
</rdf:Description>

<rdf:Description rdf:about="urn:uuid:c437ff82-4081-4fad-a89c-1a8a3093c80z">
<rdf:type rdf:resource="http://dms.stanford.edu/ns/TextAnnotation"/>
<rdf:type rdf:resource="http://www.openannotation.org/ns/Annotation"/>
<oac:hasBody rdf:resource="http://vov.indiana.edu/demo1/Line-f1r-16"/>
<oac:hasTarget rdf:resource="http://vov.indiana.edu/demo1/Canvas-f1r#xywh=23,53,200,145&amp;t=npt:5,25"/>
</rdf:Description>

<rdf:Description rdf:about="http://vov.indiana.edu/demo1/Canvas-f1r#xywh=23,53,200,145&amp;t=npt:5,25">
<rdf:type rdf:resource="http://dms.stanford.edu/ns/CanvasSegment"/>
<dcterms:isPartOf rdf:resource="http://vov.indiana.edu/demo1/Canvas-f1r"/>
</rdf:Description>

<rdf:Description rdf:about="http://vov.indiana.edu/demo1/Line-f1r-16">
<rdf:type rdf:resource="http://purl.org/dc/dcmitype/Text"/>
<rdf:type rdf:resource="http://www.w3.org/2008/content#ContentAsText"/>
<dc:title>Video #2</dc:title>
<cnt:chars>Felix and his Golden Goose</cnt:chars>
<cnt:characterEncoding>UTF-8</cnt:characterEncoding>
</rdf:Description>

<rdf:Description rdf:nodeID="bCfJsWeh175">
<rdf:first rdf:resource="urn:uuid:c437ff82-4081-4fad-a89c-1a8a3093c80f"/>
<rdf:rest rdf:nodeID="bCfJsWeh185"/>
</rdf:Description>

<rdf:Description rdf:about="http://vov.indiana.edu/demo1/Canvas-f1r">
<rdf:type rdf:resource="http://dms.stanford.edu/ns/Canvas"/>
<dc:title>M804 f1r</dc:title>
<exif:width rdf:datatype="http://www.w3.org/2001/XMLSchema#integer">480</exif:width>
<exif:height rdf:datatype="http://www.w3.org/2001/XMLSchema#integer">270</exif:height>
</rdf:Description>

</rdf:RDF>
```

W3C Media Fragment is being used here to specify the start/end time and the spatial area of interest (bubble note).

```
<rdf:Description rdf:about="http://vov.indiana.edu/demo1/Canvas-f1r#xywh=73,83,240,135&amp;t=npt:0,5">
```

Placement of the "bubbles" are relative to the video size

```
<exif:width rdf:datatype="http://www.w3.org/2001/XMLSchema#integer">480</exif:width>
<exif:height rdf:datatype="http://www.w3.org/2001/XMLSchema#integer">270</exif:height>
```

If the video is rendered at a different size then the bubbles will have to be resized / re-placed accordingly.

With RDF annotations, it's possible to fetch annotation resource from a different location. For example: overlaying a Flickr image on top of a video.

With Constrained Targets, it's also possible to do complex annotations like a polygon or an SVG. See list of known constraints.

The OAC file is fetched via AJAX and turned into Javascript objects using a custom library. Annotations are then overlaid on top of the video using our video player.