#### OAI-ORE Specification Roll-Out

# OAI-ORE experiments at the University of Illinois Library at Urbana-Champaign

Timothy W. Cole (<u>t-cole3@uiuc.edu</u>)
Grainger Engineering Library Information Center
University of Illinois at Urbana-Champaign

3 March 2008





### **Experiments**

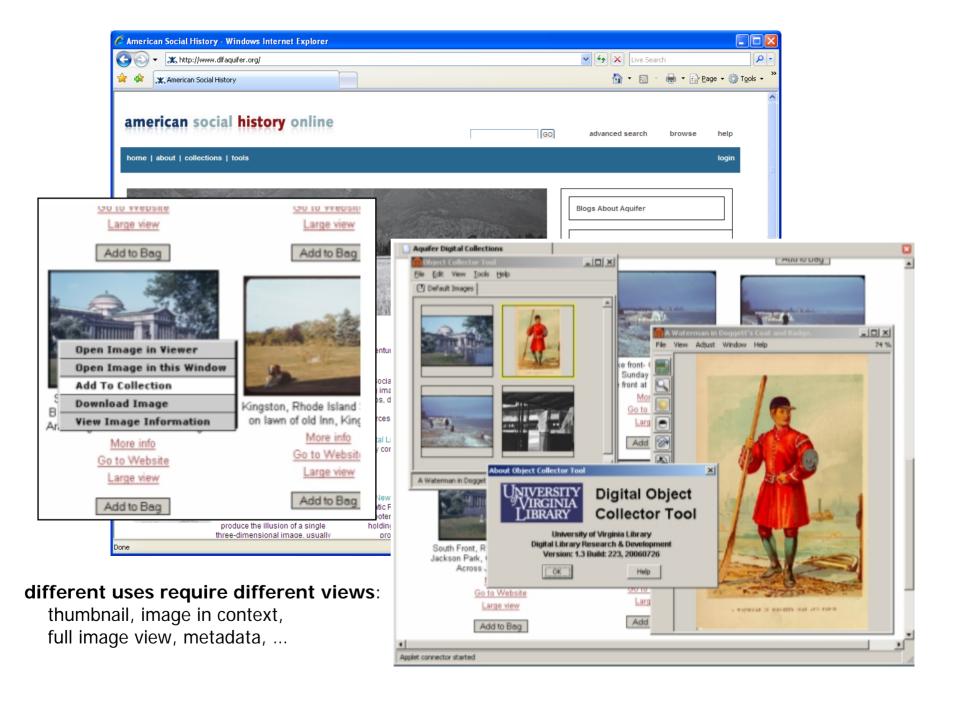
1. DLF Aquifer Asset Actions in ORE

Typed, actionable URLs for representations (views) of distributed objects (see: *Chavez, et al., D-Lib Magazine 12 (10) [Oct. 2006]*)

Related: American Social History Online Portal

Tom Habing, Bill Ingram, Esha Datta, Jody Deridder, ... & Aquifer Tech WG

- 2. Using ORE Resource Maps to support scholarly annotation of digitized books (an ORE project funded by Mellon Foundation)
  - Manage granular annotations over multiple representations and across a range of bibliographic and lexical scopes
  - Focused on literary analysis use cases & projects (e.g., MONK Project)
  - Tim Cole, Bill Parod, Michael Norman, MJ Han, Bill Ingram, ...





# Aquifer asset action semantics define classes of resources and associated "actions"

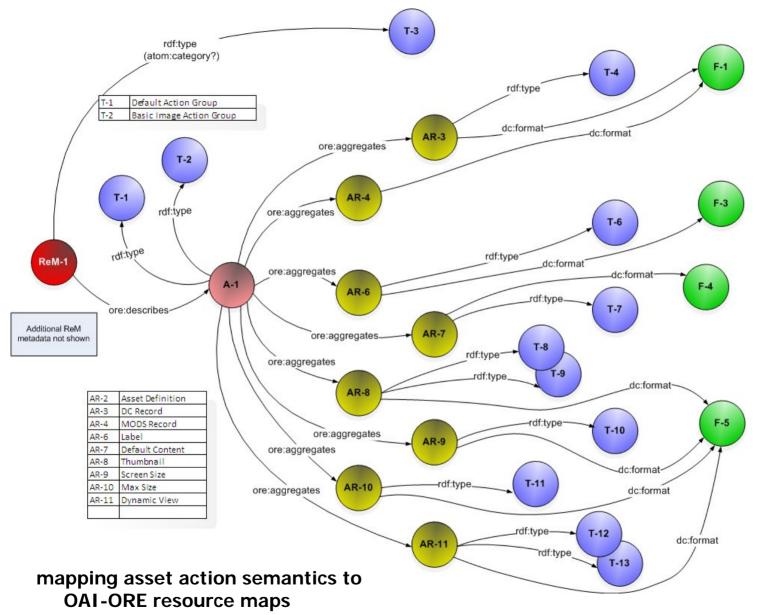
#### For example

```
actionGroups (incomplete list):

default
basicImage, layeredImage, addressableImage, ...
viewStructuredText, getStructuredText, viewImageText, getImageText, ...
```

Members of default actionGroup class must support:

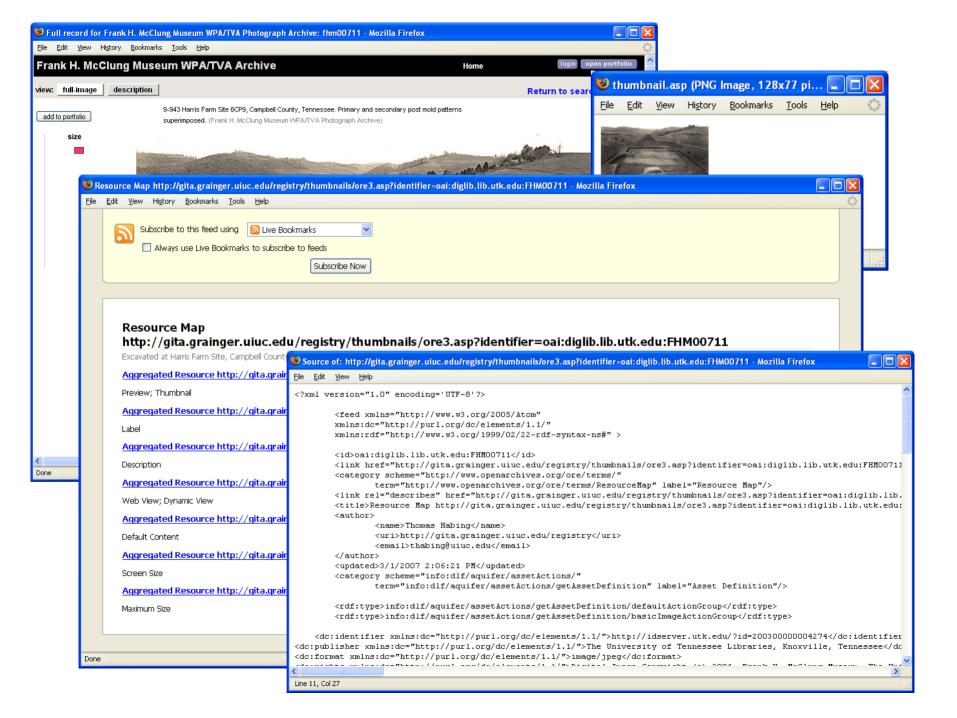
```
getPreview
getLabel
getDCRecord
getDefaultContent
getWebView
getAssetDefinition (reflexive)
```



T-3	getAssetDefinition
T-4	getDCRecord
T-6	getLabel
T-7	getDefaultContent
T-8	getPreview
T-9	getThumbnail
T-10	getScreenSize
T-11	getMaxSize
T-12	getWebView
T-13	getDynamicView
50	

text/plain
cexy praini
text/html
image/jpeg

(first attempt)





### Work in progress

#### Aquifer asset action aware applications

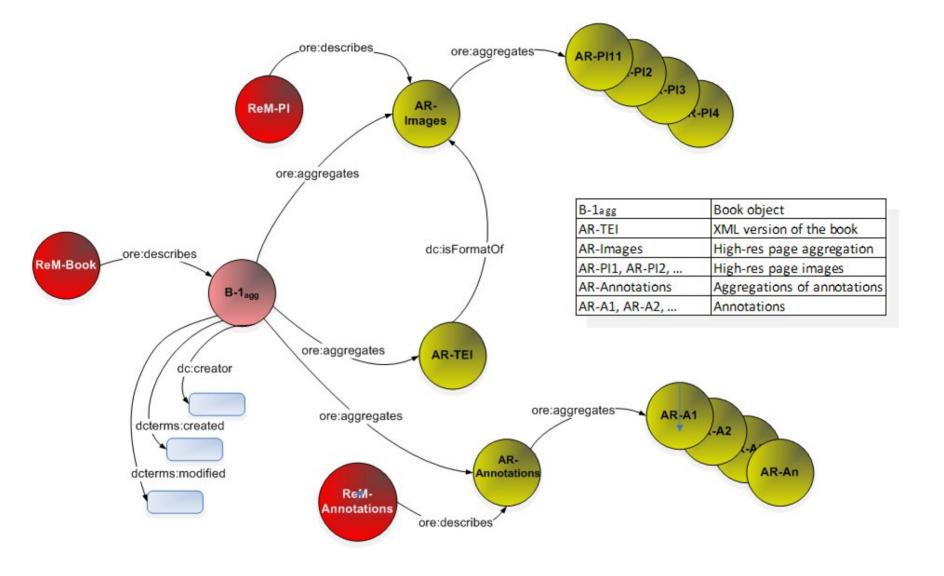
- U. of Virginia Collectus Tool (in production)
  - Currently uses existing asset action package in XML

- Zotero custom translator for Aquifer (in development)
  - Checks resources as imported into Zotero for associated asset actions
  - If found, prompts user to select URI(s) for preferred representation(s)

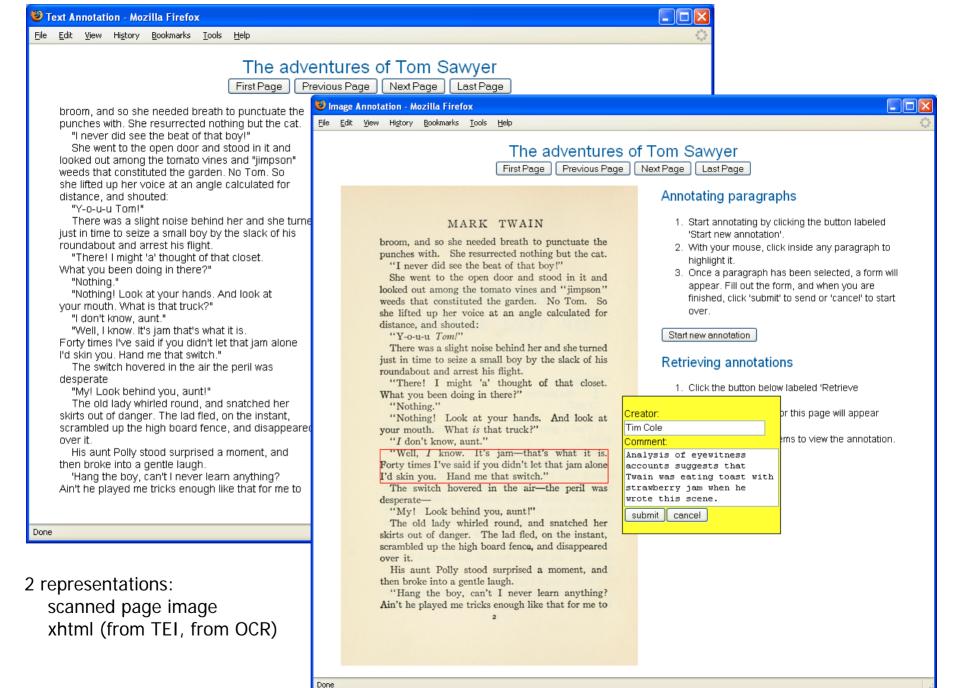


# Scholarly annotations for individual & small group collaborative research

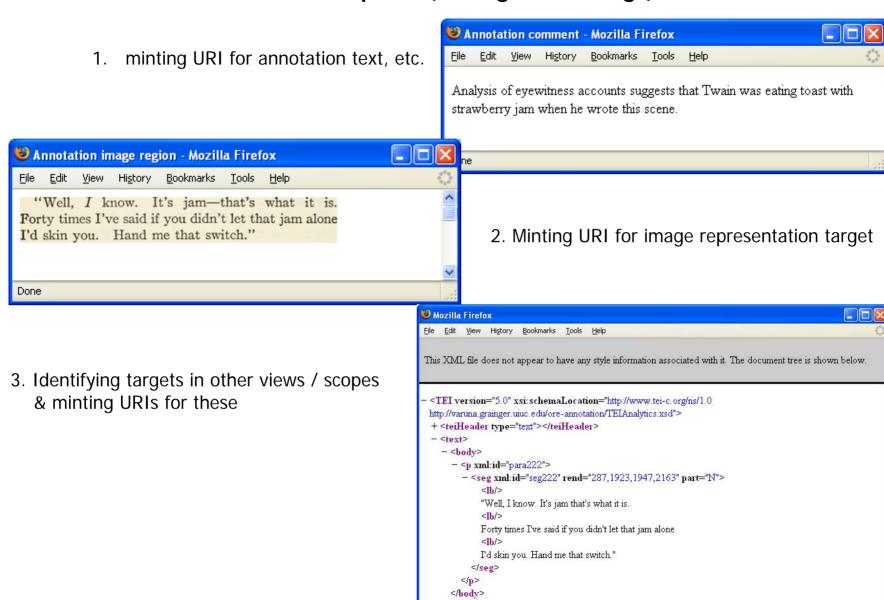
- Annotation is broad domain we're looking at annotation as scholarly commentary or elaboration at level of pages, paragraphs, lemmas.
  - Current models & literature Pliny (John Bradley, King's College), Electronic Variorum Editions (e.g., for Quixote, Eduardo Urbina [TAMU]), Google Book Annotation, OCVE (Online Chopin Variorum Edition), ...
  - A number of issues remain (see forthcoming report of the Eranos WG)
- Task: investigate whether ORE can help address a subset of needs:
  - Managing annotation targets at arbitrary granularity
  - Facilitating making annotations that are representation-independent & persistent
  - Enabling annotations over bibliographic and lexical scopes (think FRBR)
  - Enabling exchange of / interoperability of annotations in a standard way
- Content: digitized books (Open Content Alliance & Wright American Fiction)



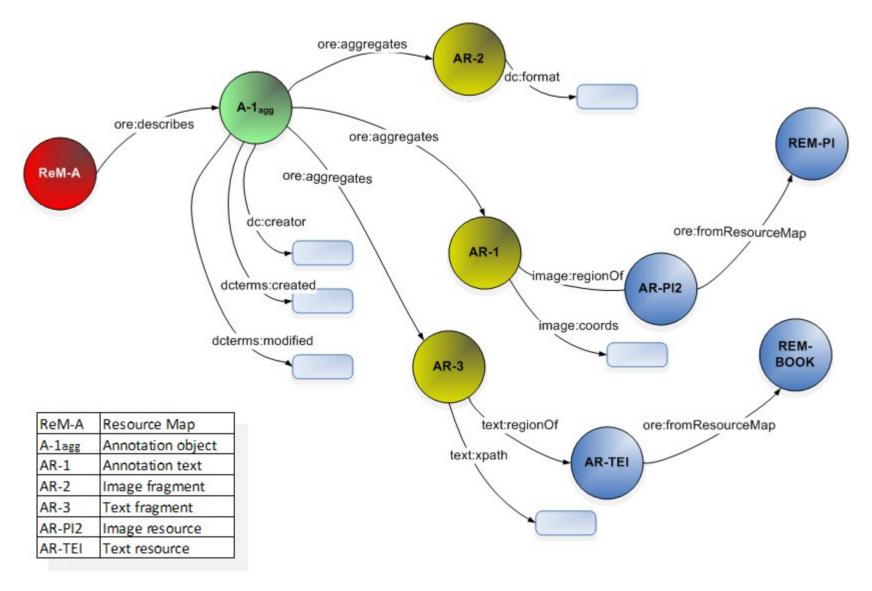
Candidate ReM for a digitized book (some detail omitted)



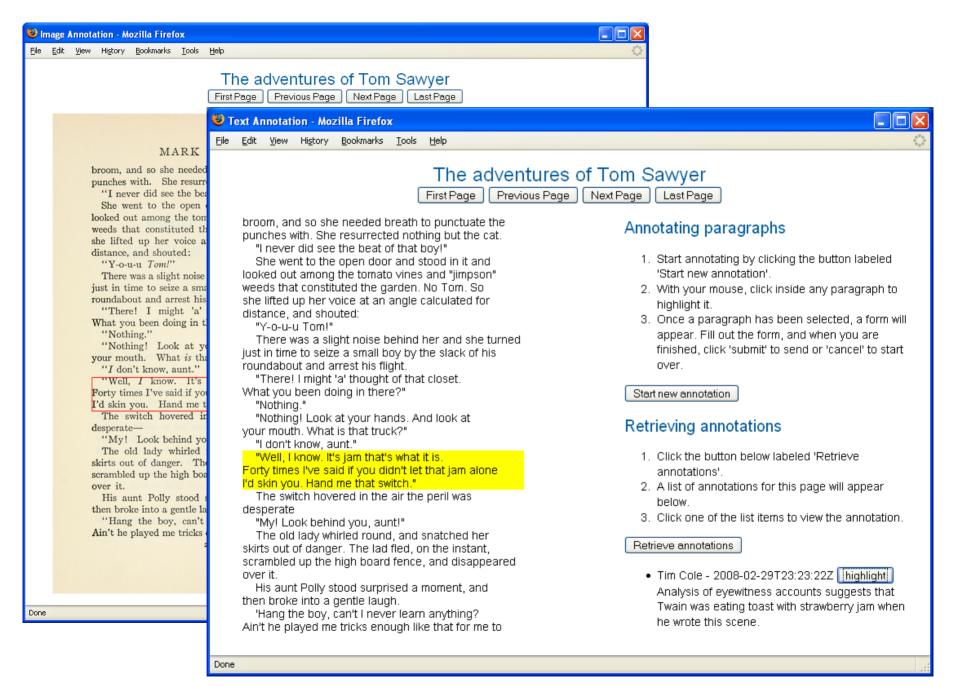
#### To create ReM for annotation requires (among other things):



</text>
</TEI>



Candidate ReM for an annotation (some detail omitted)





## Work in progress

#### To do:

- Modeling ReMs to support annotation across scopes
  - In particular across different editions of same work
  - In particular across different digitization instances of same edition
- Modeling ReMs to support annotation at level of lemma
  - Will use morphadorner tool from NWU (WordHoard, MONK)
- Investigating how minting of URIs for annotation targets might be done in repository systems like Fedora