Media, Blacklight, and Viewers Like You

Chris Beer, WGBH Interactive
Media Archives
CLIP
Finished Program

NARRATION
(recording)

Rights (company)

Script
(versions)

PICTURE LOCK

MUSIC

Rights (3rd Party)
- Licensing agreements

Research
- CD’s, LP’s, Cassettes
- logs, correspondence

ROUGH CUT
(versions)

PHOTOS
- prints
- on film or video

Rights (3rd Party)
- licensing agreements
- logs

Pre-Interviews
(informal)
- audio cassettes
- transcripts

Camera Rolls
(16mm neg)

Sound Reels
(1/4” reels)

Audio Cassettes
(for transcription)

Transcripts

Interviews
(formal)

Video Transfer

Paper Edit

Scripts
(versions)

ILLUSTRATIONS

Research
- animation
- story boards

Generic
Specific

Research Resources
- books
- videos
- articles/journals
- newspapers

Research Screener
- low quality
- vhs, U-Matic

Broadcast Quality
(orderd)
- film, BestSP

Rights (3rd Party)
- Licensing agreement
- correspondence
- logs

Stock Footage
- prints
- photocopies
- correspondence
- logs

Outlines/Treatments

Pre-Production Meetings

Workprints
(sync reels)
- 16mm pic
- 16mm full coat mag
Interview with Archimedes L. A. Patti, 1981

Print Transcript

Search transcript:


Patti: We have the French from France. We have the French from Vichy and the French from uh liberated France, we have the French from Giraud or North Africa and we had the French, the colons of Indochina and we had the French in the armies, most of them now, not most, but a large number, about 5000, in uh in China.

So, really they all had different objectives and different philosophies. The ones that I was dealing with at the time were those who now had turned from colons, from Vichyites to de Gaulistes and they were in China. And, these were the people with whom I dealt in trying to get them to cooperate in obtaining intelligence information for us. They, in turn, perhaps, and undoubtedly, with the Paris directive, were more concerned with returning to Indochina as formerly the colonialist. So that really they didn't cooperate with us very much. When I spoke of using the Vietnamese, they threw up their hands in horror and said, My, no, you don't want to deal with those people. First of all, they're stupid. In the second place they're infantile. In the third place, they're communist.

Well, that was their view. At least for my sake, that's what they were saying. And, I said, well, if we can't get you to cooperate, why can't we get someone else to cooperate for both of us. For the French as well as the Americans...
http://tinyurl.com/c4l-pbcore
http://github.com/cbeer/ave-sync
Media environment

http://github.com/cbeer/ave-sync
Metadata APIs

- RDF/XML
- OAI-PMH
- unapi
- oembed
- uriplay
<table>
<thead>
<tr>
<th>Content Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>wgbh:100</td>
<td>Collection</td>
</tr>
<tr>
<td>wgbh:101</td>
<td>Series</td>
</tr>
<tr>
<td>wgbh:103</td>
<td>Program</td>
</tr>
<tr>
<td>wgbh:104</td>
<td>Stock Footage</td>
</tr>
<tr>
<td>wgbh:105</td>
<td>Legal Contract</td>
</tr>
<tr>
<td>wgbh:106</td>
<td>Element</td>
</tr>
<tr>
<td>wgbh:107</td>
<td>Full Program Video</td>
</tr>
<tr>
<td>wgbh:108</td>
<td>Thumbnail</td>
</tr>
<tr>
<td>wgbh:109</td>
<td>Camera 1 Iso</td>
</tr>
<tr>
<td>wgbh:110</td>
<td>Camera 2 Iso</td>
</tr>
<tr>
<td>wgbh:111</td>
<td>Research Document</td>
</tr>
<tr>
<td>wgbh:112</td>
<td>Thumbnail</td>
</tr>
<tr>
<td>wgbh:113</td>
<td>Thumbnail</td>
</tr>
<tr>
<td>wgbh:114</td>
<td>Transcript</td>
</tr>
<tr>
<td>wgbh:115</td>
<td>Transcript (lang:FR)</td>
</tr>
<tr>
<td>wgbh:116</td>
<td>Thumbnail</td>
</tr>
</tbody>
</table>

http://github.com/cbeer/fedora-content-models
http://github.com/cbeer/fedora-content-models
### Features and Improvements (8 issues)

<table>
<thead>
<tr>
<th>Type</th>
<th>Key</th>
<th>Summary</th>
<th>Assignee</th>
<th>Priority</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄</td>
<td>FCREPO-507</td>
<td>Simple Manual Multiplexing</td>
<td>Unassigned</td>
<td>🁔</td>
<td>Open</td>
</tr>
<tr>
<td>🔄</td>
<td>FCREPO-492</td>
<td>Allow DC, RELS-EXT, etc, to be Managed Content</td>
<td>Unassigned</td>
<td>🁔</td>
<td>Open</td>
</tr>
<tr>
<td>🔄</td>
<td>FCREPO-495</td>
<td>Allow the REST API to stream data streams directly into the backend store</td>
<td>Unassigned</td>
<td>🁔</td>
<td>Open</td>
</tr>
<tr>
<td>🔄</td>
<td>FCREPO-426</td>
<td>Support for managed external data streams</td>
<td>Kai Strnad</td>
<td>🁔</td>
<td>Open</td>
</tr>
<tr>
<td>🔄</td>
<td>FCREPO-25</td>
<td>Option to store Audit Trail outside the object</td>
<td>Unassigned</td>
<td>🁔</td>
<td>Open</td>
</tr>
<tr>
<td>🔄</td>
<td>FCREPO-485</td>
<td>Refactoring to Support More Fully-Modularized External Content Manager</td>
<td>Kai Strnad</td>
<td>🁔</td>
<td>In Progress</td>
</tr>
<tr>
<td>🔄</td>
<td>FCREPO-439</td>
<td>In-Place &quot;Ingest&quot; of local files</td>
<td>Unassigned</td>
<td>🁔</td>
<td>Open</td>
</tr>
<tr>
<td>🔄</td>
<td>FCREPO-453</td>
<td>Allow the retrieval of content via the file URI scheme</td>
<td>Benjamin Armintor</td>
<td>🁔</td>
<td>Reopened</td>
</tr>
</tbody>
</table>

*Note: The table shows features and improvements, including their type, key, summary, assignee, priority, and status.*
Quicktime RTSP Streaming

```
<embed>
```

application/x-quicktime-media-link
<table>
<thead>
<tr>
<th>Persistent ID (PID)</th>
<th>AUDIT (text/xml)</th>
<th>DC (text/xml)</th>
<th>RELS-EXT (application/rdf+xml)</th>
<th>PBCore (text/xml)</th>
<th>Rights (text/xml)</th>
<th>Essence (video/dv)</th>
<th>Proxy (video/mp4)</th>
<th>StreamingProxy (video/mp4)</th>
<th>sdef:METADATA</th>
<th>sdef:THUMBNAIL</th>
<th>sdef:MEDIA</th>
</tr>
</thead>
</table>

h.264 pseudo-streaming

/fedora/get/PID/Proxy

302 Redirect

?start={s}
Structured mod_rewrite

http://gist.github.com/304883
Rights

- Metadata records are public

- ODRL enforcement point in the front-end

- Limited backend security policies

```xml
<o-ex:offer>
  <o-ex:asset>
    <o-ex:context>
      <o-dd:dLocation>*</o-dd:dLocation>
    </o-ex:context>
  </o-ex:asset>
  <o-ex:permission>
    <o-dd:display/>
    <o-dd:play/>
    <o-dd:annotate/>
    <o-dd:save>
      <o-ex:constraint>
        <o-dd:purpose type="download"/>
        <o-dd:individual>
          <o-ex:context>
            <o-dd:name>*columbia.edu*$</o-dd:name>
          </o-ex:context>
        </o-dd:individual>
      </o-ex:constraint>
    </o-dd:save>
  </o-ex:permission>
</o-ex:offer>
```
Media workflows

• Integration with plethora of asset management systems

• lack of identifier control

• extensive manual processing
Upcoming projects

• Boston Local TV News Archive

• American Archive

• Duracloud Pilot

• Rights management/digital asset management?