OAI and Open Data
It's (still) what's for dinner.

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April, 2013
OAI and Open Data
It's (still) what's for dinner.

... and who are you?

April, 2013
BLOW-UP

METRO-GOLDWYN-MAYER PRESENTS
A CARLO PONTI PRODUCTION

A film by
MICHELANGELO ANTONIONI

starring
DAVID HEMMINGS AND VANESSA REDGRAVE
What does this represent?

a) Kermit and Miss Piggy's dinner date?
b) Harvesting and Exposing Open Data?
5 Course Meal (presentation):

1) Discuss restaurant dining process.
2) Discuss searching indexed open data.
   3) Discuss OAI “verbs”.
   4) Demo: “NC ECHO”.
5) Activity, aka “dessert”.

Case for “A”

Case for “B”
What does this represent?

a) Kermit and Miss Piggy's dinner date?

b) Harvesting and Exposing Open Data?
1) Discuss restaurant dining process.

- COMSUMPTION of stuff
- PROVISION of stuff
- ACQUISITION of stuff
1) Discuss restaurant dining process.

- COMSUMPTION
  - Access (menu, waiter, utensils, etc.)
- PROVISION
  - Preparation (FFE, utilities, storage, cooking)
- ACQUISITION
  - Ordering (vendors, communications, transportation)
Questions?
What does this represent?

a) Kermit and Miss Piggy's dinner date?

b) Harvesting and Exposing Open Data?
2) Discuss searching indexed open data.

- COMSUMPTION of stuff
- PROVISION of stuff
- ACQUISITION of stuff
2) Discuss searching indexed open data.

- **COMSUMPTION**
  - Access (hardware/software, GUI, HTML/CSS/JS, etc.)
- **PROVISION**
  - Preparation (cross-walking, normalization, indexing/storage)
- **ACQUISITION**
  - Harvesting (repositories, communications, “transportation”)

2) Discuss searching indexed open data.

RSS much?
2) Discuss searching indexed open data.

Valid model for RSS reader?
Questions:

RSS only?
XML only?
Question:

If RSS/etc., then OAI?
What does this represent?

a) Kermit and Miss Piggy's dinner date?
b) Harvesting and Exposing Open Data?
What does this represent?

a) Kermit and Miss Piggy's dinner party?
b) Harvesting and Exploring Open Data?

c) ALL OF THE ABOVE!
Questions?
3) Discuss OAI “verbs”.
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aka “protocol requests”
3) Discuss OAI “verbs”.

aka “protocol requests”
aka “ordering from the menu”
3) Discuss OAI “verbs”.

<table>
<thead>
<tr>
<th>Verb</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetRecord</td>
<td>re: one item.</td>
</tr>
<tr>
<td>Identify</td>
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<tr>
<td>ListIdentifiers</td>
<td>re: item id's.</td>
</tr>
<tr>
<td>ListMetadataFormats</td>
<td>re: available schema.</td>
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Requests via URL:

Non-OAI examples:

- http://www.bing.com/search?q=kittens
Requests via URL:

OAI examples:

- http://memory.loc.gov/cgi-bin/oai2_0/?verb=ListSets
- http://memory.loc.gov/cgi-bin/oai2_0/?verb=ListRecords&set=drwg&metadataPrefix=oai_dc
http://memory.loc.gov/cgi-bin/oai2_0/?verb=ListRecords&resumptionToken=TZEE
Questions?
4) Demo: “NC ECHO”

http://ncecho.org
4) Demo: “NC ECHO”

Collaborative Project:
- State Library of NC
- NC Digital Heritage Center
- NC LIVE

Technologies:
- Languages: Python, XSLT; JavaScript, HTML, CSS
- Data Format: XML
- Data Model: OAI/DC
- Index/Query Engine: Apache SOLR
- other standard website “stuffs”
  - people power
Questions?
5) Activity, aka “dessert”.
Further Stuff:

http://www.oaforum.org/tutorial/english/page1.htm
http://www.openarchives.org/OAI/openarchivesprotocol.html#ProtocolMessages
http://memory.loc.gov/ammem/oamh/oai_request.html

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Thanks!