

## Creating an OLAC data provider at the Alaska Native Language Center

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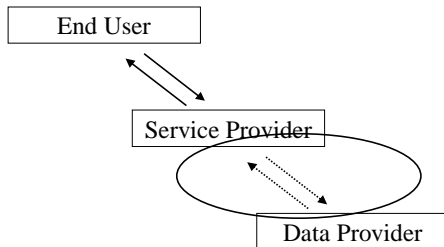
## ANLC Archives



- 10,000+ paper documents
- 5000+ recordings
- Nearly everything written *in or about* Alaska Native and languages
- Existing catalog uses proprietary metadata format

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## Data Provider responds to metadata harvest requests



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## Harvest request is a URL

- A request to the data provider has the form of a URL which specifies a script and one of six request "verbs"

`http://archives.anlc.uaf.edu/anlc.php?verb=VERB`

base URL                      script name                      verb

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## Harvest request verbs:

- Identify
- ListMetadataFormats
- ListSets
- ListIdentifiers
- ListRecords
- GetRecord

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## Response to "Identify" request

- <http://archives.anlc.uaf.edu/olac/anlc.php?verb=Identify>

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## Response to "GetRecord" request

- <http://archives.anlc.uaf.edu/olac/anlc.php?verb=GetRecord&metadataPrefix=olac&identifier=KU962K1975a>
- <http://archives.anlc.uaf.edu/olac/anlc.php?verb=GetRecord&metadataPrefix=olac&identifier=ANLC3658>

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## Implementation

- Use scripting language (php, perl, etc.) to describe response to request verbs
- **Identify, ListMetadataFormats, ListSets** have standard (fixed) responses
- **ListIdentifiers** requires simple query of catalogue identifiers in database
- **GetRecord** requires mapping from local metadata to OLAC metadata format

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## Original ANLC catalog record

```
KU   Krauss, Michael E.
962
K    Notes on Gwich'in orthography.  2 pp.
1975a
     Ms. notes on particular points of possible revision and
     questions on Gwich'in orthography.
```

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## ANLC metadata format

Catalog: KU962K1975a  
Author: Krauss, Michael  
Title: Notes on Gwich'in orthography  
Description: Ms. notes on particular points of possible revision and questions on Gwich'in orthography.  
Comments: 2 pp.  
Keywords: orthography  
URL: <http://archives.anlc.uaf.edu/docs/KU962K1975a.pdf>

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## Mapping ANLC to OLAC

- one-to-one mappings
- many-to-one mappings
  - using "refine" attribute
  - collapsing elements
- one-to-many mappings

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## One-to-one mappings

- some examples

Catalog number → <identifier>  
Author → <creator>  
Language → <subject.language>  
Keywords → <type.linguistic>

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## Many-to-one mappings using refinements

Interviewer → <creator refine="interviewer">  
 Translator → <creator refine="translator">  
 Editor → <creator refine="editor">

Title → <title>Tsaan'tsuug</title>  
 English title → <title refine="alternate" lang="en">Ruffed Grouse</title>

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## Many-to-one mappings without using refinements

- some elements collapse to a single OLAC element

Notes  
 Comments  
 Description  
 Sound quality

→ description

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## One-to-many mappings

- ANLC catalog number may also encode language and date information
- Although this violates database design principles, we can provide legacy support
- Example:

<subject.language code="X-SIL-KUC"/>      <date code="1975"/>

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## Communicating with the Service Provider

- OLAC protocols provide the means for the Service Provider to communicate with the Data Provider
- Service Provider harvests periodically
- <datestamp> allows harvester to determine which records need to be harvested
- Service Provider then stores information in any desired format

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## Advantages for Data Provider

- can maintain legacy databases
- no need to provide search facilities and other value-added products
- light load on web-server, since the server only responds to periodic harvest requests

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## ...the Service Provider

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Document Information

**Title:** (Notes on Gwich'in orthography)  
**Archive:** anc  
**Identifier:** http://archives.anc.usf.edu/docs/KU962K1975a.pdf  
**Creator(s):** Krauss, Michael E.  
**Description:** Ms. notes on particular points of possible revision and questions on Gwich'in orthography. Comments: 40 pp.  
 Keywords: orthography  
**Subject Language(s):** Gwich'in  
**Format:** application/pdf  
**Document ID:** oai:anc:KU962K1975a

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