

ISO 16363 & OAI-PMH

PURDUE UNIVERSITY
RESEARCH REPOSITORY

By Neal Harmeyer, Amy Hatfield, and
Brandon Beatty

PRESERVATION

BY NEAL HARMEYER

WHY PRESERVE?

- Scholarly research necessitates ability to refer back, or build upon, previous work—without preservation, this becomes impossible over time.
- Items accessible today are not guaranteed to be accessible tomorrow.
- Obsolescence, technology failures, disasters, etc. can damage or destroy—effective preservation mitigates that eventuality.

PURR DIGITAL PRESERVATION POLICY

- The PURR Digital Preservation Policy is a guiding document for the management of content within the repository.
- The Policy states that a focused attention to preservation is an “essential component of PURR services as it enables long-term access, and as such it requires attention throughout the data management process.”
- Development of long-term preservation strategies, strategic plans, and actions are taken from this foundational document.
 - The Libraries is committed to preserving and maintaining all PURR content for at least a period of ten years after it is published within the repository.

FROM POLICY TO TRUSTWORTHINESS

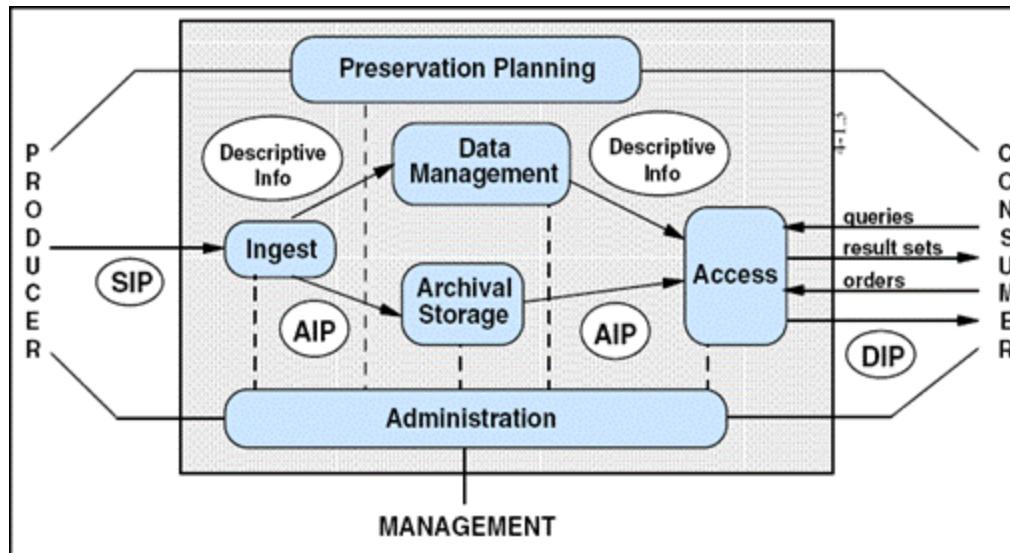
- Via the mandate of the PURR Digital Preservation Policy, a robust preservation system must be implemented.
- Stringent preservation planning should come from an internationally recognized standard.
- ISO 16363, Audit and Certification of Trustworthy Digital Repositories, provides metrics designed to establish a functional and reliable digital preservation environment.

DOCUMENTATION – PLAN AND STRATEGIES

- Preservation Strategic Plan
 - Lays out overall objectives
 - Lists imperative preservation activities
- Preservation Strategies
 - Determines specific strategies for preservation of digital objects
 - Lists preservation actions necessary for long-term preservation and access

DOCUMENTATION - OAIS MODEL

- The Open Archival Information System (OAIS) Reference Model is a standard in digital preservation.
- Various preservation planning aspects – ingest, data management, archival storage, and access – are modeled.
- The goal is to create a trustworthy system from producer to consumer.



DOCUMENTATION – FIXITY AND FORMATS

- Digital objects must undergo fixity checks on a regular basis.
 - At ingest, a cryptographic hash is created for each object.
 - On a set schedule, the current hash is compared to preservation hash to check fixity.
- File formats must be determined and validated to ensure long-term preservation techniques are appropriately applied.
 - Files are checked against a format registry database at submission.
 - Preservation strategies and actions are determined by file format.
 - Formats are normalized to archival standards.
- As archival best practices change, preservation actions will change.

DOCUMENTATION – INFORMATION PACKAGES

- An information package is a group of digital objects within a preservation system.
- There are three types of information packages.
 - Submission Information Package (SIP)
 - Delivered by producer and initiated when user creates a project
 - Includes: digital object(s), descriptive information (**metadata**)
 - Archival Information Package (AIP)
 - Created from SIP
 - Contains digital object(s) and Preservation Descriptive Information (**more metadata**)
 - Dissemination Information Package (DIP)
 - Derived from AIP
 - Access piece for consumer upon request

METADATA

Amy Hatfield, MLS PURR Metadata



Puurrrrrrrrrrrrrr.....



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Networks and Matrix Computations (nmcomp)

General project by David F. Gleich

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Publications » dataset "Graph of Flickr Photo-Sharing Social Network Crawled in May 2006"

Versions » Version 1.0 (draft)

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Fill in title, abstract and description sections below.

Title: **REQUIRED**

Graph of Flickr Photo-Sharing Social Network Crawled in May 2006

Synopsis: **REQUIRED**

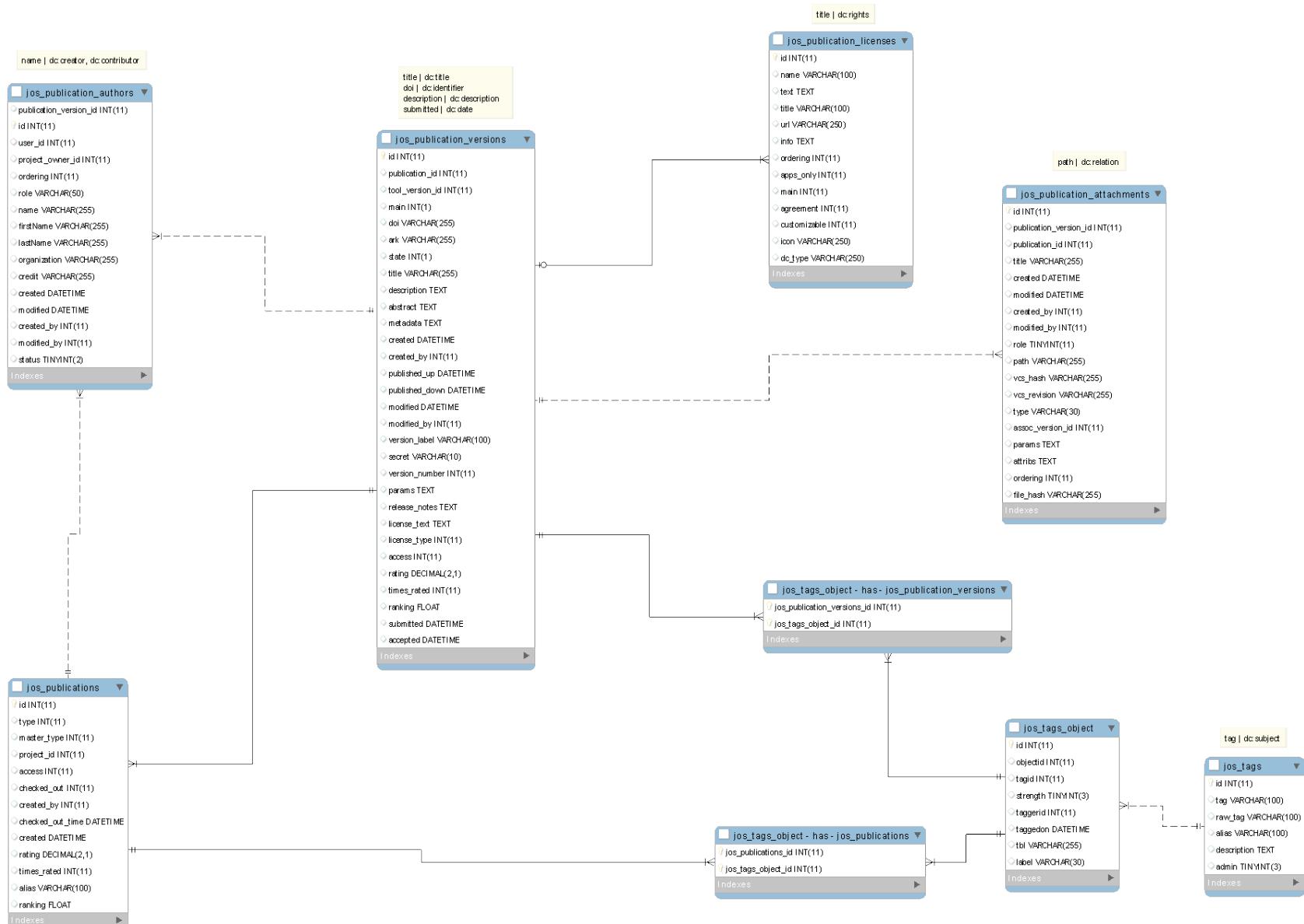
Graph of the Flickr photo-sharing social network crawled in May 2006 returning a graph with 820,878 nodes and 9,837,214 edges. Dataset is distributed as a SQL file with README file with code to read file in Python and MATLAB.

Abstract / Description: **REQUIRED**

Flickr is a popular online-community for sharing photos, with millions of users. This graph is representative of its social network, in which the node set V represents users, and the edge set E is such that $(u, v) \in E$ if and only if a user u has added user v as his/her contact. We start with a crawl extracted from Flickr in May 2006. This crawl began with a single user and continued until the total personalized PageRank on the set of uncrawled nodes was less than 0.0001. The result of the crawl was a graph with 820,878 nodes and 9,837,214 edges.

Preview:

Flickr is a popular online-community for sharing photos, with millions of users. This graph is representative of its social network, in which the node set V represents users, and the edge set E is such that $(u, v) \in E$ if and only if a user u has added user v as his/her contact. We start with a crawl extracted from Flickr in May 2006. This crawl began with a single user and continued until the total personalized PageRank on the set of uncrawled nodes was less than 0.0001. The result of the crawl was a graph with 820,878 nodes and 9,837,214 edges.



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Dublin Core Metadata Used By PURR

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Author <code>jos_publications</code>	Contributor (text string)	Yes		Yes		An entity responsible for making contributions to the resource. (this field is for listing additional authors/project members)
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<code>abstract + synopsis + notes jos_publications_versions</code>	Description (free text)	Yes		Yes		An account of the resource. (Each PURR field will have a DC description field equating to 3 description fields.)
Format <code>jos_publications_master_types</code>	Format (MIME type)		Yes		Yes -- always 'Bagit'	The file format, physical medium, or dimensions of the resource.
Identifier	Identifier		Yes		Yes - DOI minted at SIP publication	An unambiguous reference to the resource within a given context.

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<dcterms:creator>Principle Author - Required</dcterms:creator>
<dcterms:contributor>Other Authors - Optional/Repeatable</dcterms:contributor>
<dcterms:date>Submission Timestamp (ISO 8601) - Required</dcterms:date>
<dcterms:description>Abstract - Currently Required/Repeatable</dcterms:description>
<dcterms:description>Synopsis - Currently Required/Repeatable</dcterms:description>
<dcterms:description>Notes - Currently Required/Repeatable</dcterms:description>
<dcterms:format>BagIt - Hard coded - Required</dcterms:format>
<dcterms:identifier>DOI - Required</dcterms:identifier>
<dcterms:publisher>Purdue University Research Repository - Hard coded -
Required</dcterms:publisher>
<dcterms:rights>Information about rights held in and over the resource</dcterms:rights>
<dcterms:subject>Tags - Required/Repeatable</dcterms:subject>
<dcterms:title>Required</dcterms:title>
<dcterms:type>Dataset - Hard coded - Required</dcterms:type>

IMPLEMENTATION

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General project by David F Gleich

private project

Publications » dataset "Graph of Flickr Photo-Sharing Social Network Crawled in May 2006"

Versions » Version 1.0 (draft)

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Fill in title, abstract and description sections below:

Title: **REQUIRED** <dcterms:title></dcterms:title>

Graph of Flickr Photo-Sharing Social Network Crawled in May 2006

Synopsis: **REQUIRED** <dcterms:description></dcterms:description>

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Abstract / Description: **REQUIRED** <dcterms:description></dcterms:description>

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- Social Network Analysis
- World Wide Web

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- Algorithms
- Internet
- Data Mining
- Representations of Graphs
- World Wide Web
- Matrices

Category: Datasets A collection of research data

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Metadata Encoding and Transmission Standard (METS) Wrapper

```
<mets:mets...>
  <mets:dmdSec ID="DC">
    <mets:mdWrap MDTYPE="DC">
      <mets:xmlData>
        Dublin Core Terms
        </mets:xmlData>
      </mets:mdWrap>
    </mets:dmdSec>
    <mets:amdSec>
      <mets:techMD ID="object1">
        <mets:mdWrap MDTYPE="PREMIS:OBJECT">
          <mets:xmlData>
            </mets:xmlData>
          </mets:mdWrap>
        </mets:techMD>
        <mets:digiprovMD ID="event1">
          <mets:mdWrap MDTYPE="PREMIS:EVENT">
            <mets:xmlData>
              </mets:xmlData>
            </mets:mdWrap>
          </mets:digiprovMD>
        </mets:amdSec>
      </mets:mets>
```

<dcterms:dcterms...>
<dcterms:creator>Principle Author - Required</dcterms:creator>
<dcterms:contributor>Other Authors - Optional/Repeatable</dcterms:contributor>
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<dcterms:description>Abstract - Optional/Repeatable</dcterms:description>
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<dcterms:identifier>DOI - Required</dcterms:identifier>
<dcterms:publisher>Purdue University Research Repository - Hard coded</dcterms:publisher>
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<dcterms:title>Required</dcterms:title>
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</mets:xmlData>

PREMIS Preservation Metadata

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  <mets:mdWrap MDTYPE="DC">
    <mets:xmlData>

      </mets:xmlData>
    </mets:mdWrap>
  </mets:dmdSec>
  <mets:amdSec>
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      <mets:mdWrap MDTYPE="PREMIS:OBJECT">
        <mets:xmlData>
          Administrative Metadata
        </mets:xmlData>
      </mets:mdWrap>
    </mets:techMD>
    <mets:digiprovMD ID="event1" >
      <mets:mdWrap MDTYPE="PREMIS:EVENT">
        <mets:xmlData>

          </mets:xmlData>
        </mets:mdWrap>
      </mets:digiprovMD>
    </mets:amdSec>
  </mets:mets>
```

```
<premis:object xsi:type="premis:file" xsi:schemaLocation="info:lc/xmlns/premis-v2
  http://www.loc.gov/standards/premis/v2/premis-v2-0.xsd">
  <premis:objectIdentifier>
    <premis:objectIdentifierType>CHECKSUM - Required</premis:objectIdentifierType>
      <premis:objectIdentifierValue>Generated checksum</premis:objectIdentifierValue>
    </premis:objectIdentifier>
    <premis:preservationLevel>
      <premis:preservationLevelValue>full</premis:preservationLevelValue>
      <premis:preservationLevelDateAssigned>00000000
        </premis:preservationLevelDateAssigned>
    </premis:preservationLevel>
    <premis:objectCharacteristics>
      <premis:compositionLevel>0</premis:compositionLevel>
      <premis:fixity>
        <premis:messageDigestAlgorithm>Name of CHECKSUM
          algorithm</premis:messageDigestAlgorithm>
        <premis:messageDigest>Generated checksum</premis:messageDigest>
        <premis:messageDigestOriginator>PURR</premis:messageDigestOriginator>
      </premis:fixity>
      <premis:size>000000</premis:size>
      <premis:format>
        <premis:formatDesignation>
          <premis:formatName>File format</premis:formatName>
          <premis:formatVersion>If the format is versioned, formatVersion should be
            recorded. It can be either a numeric or
            chronological
            designation.</premis:formatVersion>
          </premis:formatDesignation>
        <premis:formatRegistry>
          <premis:formatRegistryName>DROID or Unix
            Tools?</premis:formatRegistryName>
          <premis:formatRegistryKey>(e.g., fmt/10)</premis:formatRegistryKey>
          <premis:formatRegistryRole>specification</premis:formatRegistryRole>
        </premis:formatRegistry>
      </premis:format>
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  </premis:object>
```

```
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</mets:xmlData>
</mets:mdWrap>
</mets:dmdSec>
<mets:amdSec>
<mets:techMD ID="object1">
<mets:mdWrap MDTYPE="PREMIS:OBJECT">
<mets:xmlData>
</mets:xmlData>
</mets:mdWrap>
</mets:techMD>
<mets:digiprovMD ID="event1" >
<mets:mdWrap MDTYPE="PREMIS:EVENT">
<mets:xmlData>

</mets:xmlData>
</mets:mdWrap>
</mets:digiprovMD>
</mets:amdSec>
</mets:mets>
```

Technical Metadata

```
<premis:creatingApplication>
<premis:creatingApplicationName>Software used to create the file. Repeatable for multiple software used.</premis:creatingApplicationName>
<premis:creatingApplicationVersion>Software version</premis:creatingApplicationVersion>
<premis:dateCreatedByApplication>00000000</premis:dateCreatedByApplication>
</premis:creatingApplication>
```

```
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<mets:mdWrap MDTYPE="DC">
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</mets:xmlData>
</mets:mdWrap>
</mets:dmdSec>
<mets:amdSec>
<mets:techMD ID="object1">
<mets:mdWrap MDTYPE="PREMIS:OBJECT">
<mets:xmlData>
Technical Metadata
</mets:xmlData>
</mets:mdWrap>
</mets:techMD>
<mets:digiprovMD ID="event1" >
<mets:mdWrap MDTYPE="PREMIS:EVENT">
<mets:xmlData>
</mets:xmlData>
</mets:mdWrap>
</mets:digiprovMD>
</mets:amdSec>
</mets:mets>

<premis:hardware>
<premis:hwName>Name of hardware</premis:hwName>
<premis:hwType>Processor</premis:hwType>
<premis:hwOtherInformation>(e.g., 60 mhz
minimum)</premis:hwOtherInformation>
</premis:hardware>
<premis:hardware>
<premis:hwName>(e.g., 64 MB RAM)</premis:hwName>
<premis:hwType>Memory</premis:hwType>
<premis:hwOtherInformation>(e.g., 32 MB minimum)</premis:hwOtherInformation>
</premis:hardware>
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<softwareInformation/>
</premis:environmentExtension>
```

```
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  <mets:mdWrap MDTYPE="DC">
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      </mets:xmlData>
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  </mets:dmdSec>
  <mets:amdSec>
    <mets:techMD ID="object1">
      <mets:mdWrap MDTYPE="PREMIS:OBJECT"> <mets:xmlData>
        <premis:eventType>validation</premis:eventType>
        <premis:eventDateTime>2006-06-06T00:00:00.001</premis:eventDateTime>
        <premis:eventDetail>jhove1_1e - validation software</premis:eventDetail>
          <premis:eventOutcomeInformation>
            <premis:eventOutcome>successful</premis:eventOutcome>
            <premis:eventOutcomeDetail>
              <premis:eventOutcomeDetailNote>Well-formed and valid</premis:eventOutcomeDetailNote>
              <premis:eventOutcomeDetailExtension>
                <logfileInfo>
                  <in/>
                  <out/>
                </logfileInfo>
              </premis:eventOutcomeDetailExtension>
            </premis:eventOutcomeDetail>
          </premis:eventOutcomeInformation>
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      <mets:mdWrap MDTYPE="PREMIS:EVENT"> <mets:xmlData>
        <premis:eventType>validation</premis:eventType>
        <premis:eventDateTime>2006-06-06T00:00:00.001</premis:eventDateTime>
        <premis:eventDetail>jhove1_1e - validation software</premis:eventDetail>
          <premis:eventOutcomeInformation>
            <premis:eventOutcome>successful</premis:eventOutcome>
            <premis:eventOutcomeDetail>
              <premis:eventOutcomeDetailNote>Well-formed and valid</premis:eventOutcomeDetailNote>
              <premis:eventOutcomeDetailExtension>
                <logfileInfo>
                  <in/>
                  <out/>
                </logfileInfo>
              </premis:eventOutcomeDetailExtension>
            </premis:eventOutcomeDetail>
          </premis:eventOutcomeInformation>
        </mets:xmlData>
      </mets:mdWrap>
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  </mets:amdSec>
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```

Provenance Metadata

```
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  <mets:mdWrap MDTYPE="DC">
    <mets:xmlData>

      </mets:xmlData>
    </mets:mdWrap>
  </mets:dmdSec>
<mets:amdSec>
<mets:techMD ID="object1">
  <mets:mdWrap MDTYPE="PREMIS:OBJECT">
    <mets:xmlData>

      </mets:xmlData>
    </mets:mdWrap>
  </mets:techMD>
<mets:digiprovMD ID="event1" >
  <mets:mdWrap MDTYPE="PREMIS:EVENT">
    <mets:xmlData>
      Provenance Metadata
    </mets:xmlData>
  </mets:mdWrap>
</mets:digiprovMD>
</mets:amdSec>
</mets:mets>
```

```
  <premis:eventType>ingestion</premis:eventType>
  <premis:eventDateTime>2006-06-
  06T00:00:00.002</premis:eventDateTime>
  <premis:eventDetail>Ingest tool/software (e.g.,
  ingestor1_0.exe)</premis:eventDetail>
  <premis:eventOutcomeInformation>
  <premis:eventOutcome>successful</premis:eventOutcome>
  </premis:eventOutcomeInformation>
```

```
  <premis:eventType>migration</premis:eventType>
  <premis:eventDateTime>2006-07-06T00:00:00.006</premis:eventDateTime>
  <premis:eventDetail>Name of software used to migrate version (e.g., Adobe Acrobat v. 9)
  </premis:eventDetail>
  <premis:eventOutcomeInformation>
  <premis:eventOutcome>successful</premis:eventOutcome>
  </premis:eventOutcomeInformation>
```

Archival Information Package (AIP)

```
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  xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:mets="http://www.loc.gov/METS/" xmlns:premis="info:lc/xmlns/premis-v2"
  xsi:schemaLocation="http://www.loc.gov/METS/ http://www.loc.gov/standards/mets/mets.xsd">
  <mets:mdSec ID="DC">
    <mets:mdWrap MDTYPE="DC">
      <mets:xmlData>
        <dctypes:dctypes xmlns:dcterms="http://purl.org/dc/terms/">
          <dcterms:creator>Principle Author - Required</dcterms:creator>
          <dcterms:contributor>Other Authors - Optional/Repeatable</dcterms:contributor>
          <dcterms:date>Submission Timestamp - Required</dcterms:date>
          <dcterms:description>Abstract - Optional/Repeatable</dcterms:description>
          <dcterms:description>Synopsis - Optional/Repeatable</dcterms:description>
          <dcterms:description>Notes - Optional/Repeatable</dcterms:description>
          <dcterms:format>Bagit - Hard coded</dcterms:format>
          <dcterms:identifier>DOI - Required</dcterms:identifier>
          <dcterms:publisher>Purdue University Research Repository - Hard coded</dcterms:publisher>
          <dcterms:rights>Information about rights held in and over the resource</dcterms:rights>
          <dcterms:subject>Tags - Optional/Repeatable</dcterms:subject>
          <dcterms:title>Required</dcterms:title>
          <dcterms:type>Dataset - Hard coded</dcterms:type>
        </dctypes:dctypes>
      </mets:xmlData>
    </mets:mdWrap>
  </mets:mdSec>
</mets:mdSec>
|
```



Dissemination Information Package
(DIP)

Dissemination Information Package (DIP)

Searchable – within PURR

**Discoverable – through
other systems...**

OAI-PMH

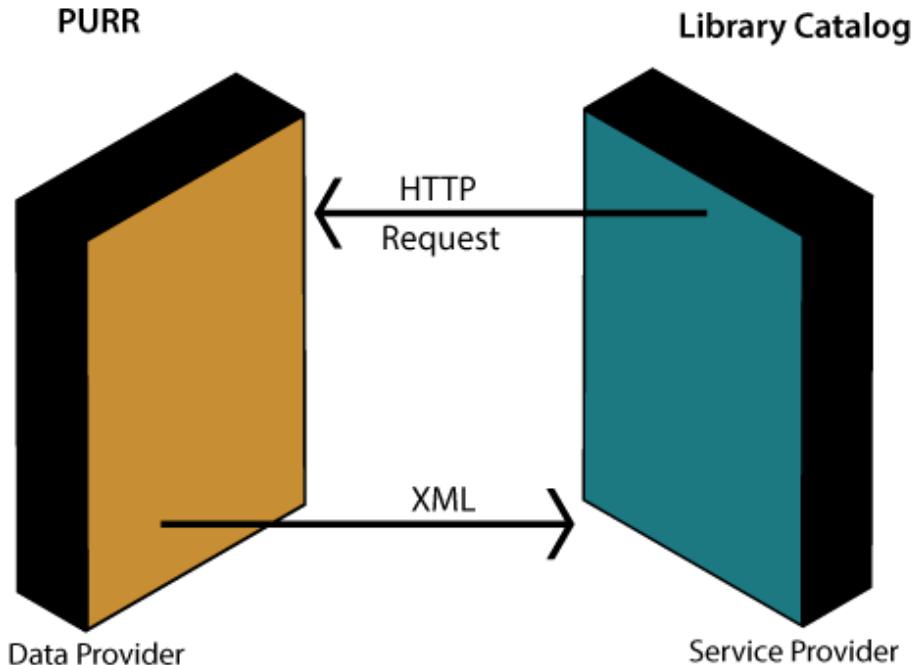
OPEN ARCHIVES INITIATIVE PROTOCOL
FOR METADATA HARVESTING

OAI-PMH

OPEN ARCHIVES INITIATIVE PROTOCOL FOR METADATA HARVESTING

Application-independent framework based on metadata harvesting. There are two classes of participants in the OAI-PMH framework:

- **Data Providers** administer systems that support the OAI-PMH as a means of exposing metadata; and
- **Service Providers** use metadata harvested via the OAI-PMH as a basis for building value-added services.



OAI-PMH XML OUTPUT

HUBNAME.ORG/?OPTION=COM_OAIPMH&VERB=LISTRECORDS&METADATAPREFIX=OAI_DC

```
<?xml version="1.0" encoding="UTF-8"?>
<OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/OAI-PMH.xsd">
  <responseDate>2012-09-20T11:07:55-04:00</responseDate>
  <request verb="ListRecords" metadataPrefix="oai_dc">http://research.purdue.edu/?option=com_oaipmh</request>
  <ListRecords>
    <record>
      <header>
        <identifier>http://dx.doi.org/10.5072/FK299999</identifier>
        <datestamp>2012-08-30T10:38:47-04:00</datestamp>
        <setSpec>Dataset</setSpec>
      </header>
      <metadata>
        <oai_dc:dc xmlns:oai_dc="http://www.openarchives.org/OAI/2.0/oai_dc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/
          http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
          <dc:title>oaipmh.xml</dc:title>
          <dc:creator>Brandon M Beatty</dc:creator>
          <dc:subject>text</dc:subject>
          <dc:subject>Advanced Exercises</dc:subject>
          <dc:date>2012-08-30 10:38:47</dc:date>
          <dc:identifier>http://dx.doi.org/10.5072/FK299999</dc:identifier>
          <dc:description>The is the Abstract and Description.</dc:description>
          <dc:type>Dataset</dc:type>
          <dc:publisher>Purdue University Research Repository</dc:publisher>
          <dc:rights>CC0 - Creative Commons</dc:rights>
          <dc:contributor>Brandon M Beatty</dc:contributor>
          <dc:contributor>Courtney Matthews</dc:contributor>
          <dc:relation>oaipmh.xml</dc:relation>
        </oai_dc:dc>
      </metadata>
    </record>
    <record>
      <header>
        <identifier>http://dx.doi.org/10.5072/FK299999</identifier>
        <datestamp>2012-08-10T13:16:51-04:00</datestamp>
        <setSpec>Dataset</setSpec>
      </header>
      <metadata>
        <oai_dc:dc xmlns:oai_dc="http://www.openarchives.org/OAI/2.0/oai_dc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/
          http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
          <dc:title>BagItPHP 19</dc:title>
          <dc:creator>Mark Leighton Fisher</dc:creator>
          <dc:subject>text</dc:subject>
          <dc:date>2012-08-10 13:16:51</dc:date>
          <dc:identifier>http://dx.doi.org/10.5072/FK299999</dc:identifier>
          <dc:description>BagItPHP 19</dc:description>
          <dc:type>Dataset</dc:type>
          <dc:publisher>Purdue University Research Repository</dc:publisher>
          <dc:rights>CC0 - Creative Commons</dc:rights>
          <dc:contributor>Mark Leighton Fisher</dc:contributor>
          <dc:relation>new-headshot.jpg</dc:relation>
          <dc:relation>purdue-headshot.jpg</dc:relation>
        </oai_dc:dc>
      </metadata>
    </record>
  </ListRecords>
</OAI-PMH>
```

THANK YOU

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