

WK2D: Advanced Islandora Workshop

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Helsinki, Finland

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Islandora

Agenda

- Introductions
- System & community overview
- Latest Release – Highlights
- Introduction to Solr
- Introduction to Form Builder

Open Source Software Community




<http://islandora.ca/islandora-installations>










Estimated 150+ sites worldwide



Online Discussion Forums

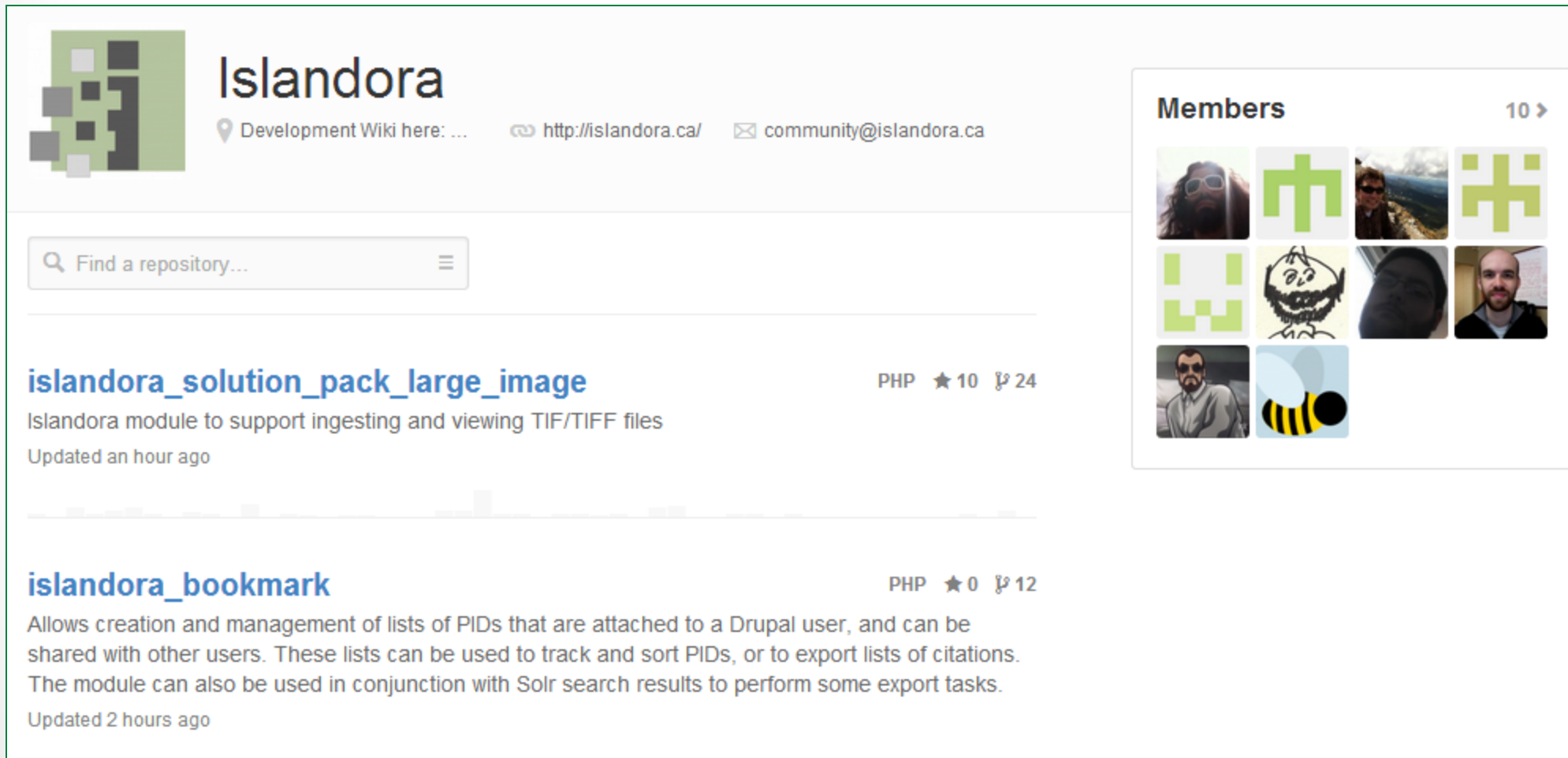
islandora Shared publicly
30 of many topics (99+ unread) ☆ 

Welcome to the Islandora Users group. Learn more about Islandora at islandora.ca. If you are a developer, you may want to join our developers group ([islandora-dev](#))

-  **Islandora Committers Call - Feb 27th, 2014** (1)
By Melissa Anez - 1 post - 4 views
-  **jQuery 1.8 and Islandora** (4)
By Everton Kennedy - 4 posts - 11 views
-  **GitHub Repo roundup** (4)
By Melissa Anez - 4 posts - 17 views
-  **Islandora Scholar errors** (5)
By Evan Jackson - 5 posts - 17 views
-  **Video Solution Pack: MP4 creation failed.** (1)
By Janis T - 1 post - 5 views
-  **Islandora Solr Display Profiles** (3)
By Evan Jackson - 3 posts - 9 views
-  **Islandora Solr question** (3)
By Evan Jackson - 3 posts - 27 views
-  **store on islandora** (4)
By Mehdi Halvaei - 4 posts - 23 views
-  **creating newspapers with Tuque** (9)
By aaronC - 9 posts - 26 views

<https://groups.google.com/forum/#!forum/islandora>

Code Contributors on Github



The screenshot displays the GitHub profile for the 'Islandora' organization. At the top left is the organization's logo, a green and black pixelated design. To its right, the name 'Islandora' is prominently displayed. Below the name, there are links for a development wiki, the organization's website (http://islandora.ca/), and an email address (community@islandora.ca). A search bar with the placeholder text 'Find a repository...' is located below the header. Two repositories are listed: 'islandora_solution_pack_large_image' and 'islandora_bookmark'. Each repository entry includes its name, programming language (PHP), star count, and pull request count. A 'Members' section on the right side of the page shows a grid of 10 contributor avatars, with a '10 >' link indicating more members.

Islandora
Development Wiki here: ... <http://islandora.ca/> community@islandora.ca

Find a repository...

islandora_solution_pack_large_image PHP ★ 10 P 24
Islandora module to support ingesting and viewing TIF/TIFF files
Updated an hour ago

islandora_bookmark PHP ★ 0 P 12
Allows creation and management of lists of PIDs that are attached to a Drupal user, and can be shared with other users. These lists can be used to track and sort PIDs, or to export lists of citations. The module can also be used in conjunction with Solr search results to perform some export tasks.
Updated 2 hours ago

Members 10 >

<https://github.com/Islandora>

Open Source Software Stack

- Web interface (Drupal)



- Search (Solr)



- Preservation (Fedora)

Islandora

7.x-1.3

- SCHOLAR
 - Embargo
 - Citation Style Language
 - RoMEO Integration
 - Citation Import
 - Citation Export
 - Bookmarks
 - Open Archives Initiative
 - Google Scholar
 - Zotero
 - Bibutils
- PREMIS
- XQUERY

The screenshot shows the Islandora OnDemand website interface. At the top left, the logo for 'discoverygarden' is displayed with the tagline 'Managing Digital Content'. To its right, the text 'Islandora OnDemand' and 'Managing Digital Content' is visible. In the top right corner, there are navigation links: 'About this site', 'Browse repository', and 'My Bookmarks'. Below the header is a horizontal carousel of four images: a beach, a blue sky over water, a spiral galaxy, and a colorful nebula. Navigation arrows are present on the left and right sides of the carousel. To the right of the carousel is a white box containing a welcome message: 'Welcome to our sandbox site. You can login using the username "admin" and password "islandora". Please note that the sandbox is "raked" on a nightly basis so any changes will be discarded.' Below this is a search bar with the text 'Search this repository' and a search icon, with a link to 'Advanced Search' underneath. At the bottom of this section is a green button with the text '[+] Submit to a collection'. Below the carousel is a section titled 'Featured Collections' which contains four items, each with a small image and a title: 'Nakamuka' (with a microphone icon), 'Space Project' (with a galaxy icon), 'Dead Star Creates Celestial Havoc' (with a nebula icon), and 'Sample Meeting Minutes' (with a document icon).

Solr Overview

- Indexing
- Foxml to Solr
- Gsearch
- Solr field types
- Solr Configuration
- Request Handler
- Solr client configuration
- Metadata display
- Solr facet pages
- Documentation

UPEI Robertson Library setup

- Many separate Drupal installs accessing the same solr instance.
- Search results segmented by PID namespace
- Each site has it's own configuration for advanced search
- Each site has their own facets.

What gets indexed?

With Islandora what gets indexed is up to you. If you follow the Islandora instructions you will get MODS, DC, RELS-EXT, Fulltext and more by default.

If you have objects with other text or xml datastreams they can be indexed as well

- If you create a form in FormBuilder you can add an xslt to the Gsearch configuration to index your new metadata. Form builder uses xpath and Gsearch uses xslts so there are many similarities

How does it get indexed?

- Islandora relies on FedoraGsearch to index Fedora objects in Solr. Gsearch is a Java webapp that crosswalks a Fedora [FOXML](#) file to a Solr document and sends the result to Solr.
- When a Fedora Object is ingested or modified it sends messages via JMS. Gsearch receives these messages and updates the solr index.

[Link to Raw Solr Result](#)

Foxml To Solr

Gsearch xslt

```
<xsl:for-each select= "mods:
abstract">
  <field>
    <xsl:attribute name="name">
      <xsl:value-of select= "concat
($prefix, local-name(), $suffix)"/>
    </xsl:attribute>
    <xsl:value-of select="text()"/>
  </field>
</xsl:for-each>
```

Solr Document

```
<doc>
  <field name="PID"> islandora:1
</field>
  <field name="mods_abstract_ms"
> The text from the mods:
abstract element
</field>
</doc>
```

Gsearch configuration

Gsearch configs located:

- /var/lib/tomcat6/webapps/fedoragsearch/WEB-INF/classes/fgsconfigFinal

Most interesting files are

- fedoragearch.properties
- index/FgsIndex/index.properties
- index/FgsIndex/foxmlToSolr.xslt
 - index/FgsIndex/islandora_transforms
- updater/FgsIndex/updater.properties

Gsearch Cont.

- Repository/FgsRepos/repository.properties
- Can use information in datastreams to pull in content from other objects (parent title)
- [Gsearch](#) indexing interface
- rebuilding an entire index using Gsearch interface will not remove objects from the index (update/add).
 - Gsearch will remove entries when configured to listen for events.

Solr field types

Solr can be configured to support different types of fields and these fields can be single or multivalued.

- Single Valued can be used for sorting, multivalued can't.
- Analyzed (tokenized etc.) fields are good for searching but not so good for display.

Solr Field types cont'd

- In general String (non analyzed) are used for display (facets or results) and
- Text (analyzed) type fields are used for searching.
There are also date, numeric and other field types and you can also create your own field types.

Solr configs

Solr configs located:

- /usr/share/solr/core1/conf

Most interesting files

- solrconfig.xml
 - request handlers (if you want filters that Islandora can't override)
- schema.xml
 - fields
 - fieldType
 - copyFields

Request Handler

Many of the settings you can set in the Islandora configuration can also be set in a Solr requestHandler.

You can set values in the requestHandler that cannot be overridden by the Islandora module.

Solr Request Handler

```
<requestHandler name="guardian" class="solr.SearchHandler">
<!-- default values for query parameters -->
<lst name="defaults">
<str name="echoParams">explicit</str>
<str name="fl">title,subject,genre,form,surveyor,contributor,type,country,county,region,
  city,PID,yearPublished,mods.title_facet,mods.dateIssued,mods.pageNum</str>
<str name="q.alt">*:*</str>
<str name="qf"> mods.title^2.5 mods.subject^1.5 mods.surveyor^5.0 mods.contributor^5.
  0
  mods.country^1.5 mods.county^1.5 mods.region^3.8 mods.city^5.8 mods.genre^2
  mods.form^1.5 PID^0.5 OCR.OCR^3.0 </str>
</lst>
<lst name="appends">
<str name="fq">PID:newspapers* OR PID:guardian* OR PID:upeia\:cadre*</str>
</lst>
</requestHandler>
```

Solr

Fielded search (Islandora advanced search block) vs
dismax (Islandora simple search block)

[Solr interface](#)

Islandora Solr Client

- The Islandora Solr client can be used as a frontend to any Solr index not just a Fedora based index.
- You would need to provide a custom Display profile for non Fedora content.
- This also allows us to index both Drupal and Fedora content in one index.

Configuring the Solr client

Topics to Cover:

- Blocks ([Link](#))
 - Islandora Simple Search
 - Islandora Displays
 - Islandora Facets
 - Islandora Queries
 - Islandora Sort

[admin/structure/block](#)

Sidebar First

- ⊕ Islandora query
- ⊕ Islandora simple search
- ⊕ Islandora facets
- ⊕ Islandora displays

Configuration cont'd

- Main Configuration Page
 - url and port
 - request handler
- Solr Settings tab
 - Display profiles
 - Secondary profiles
 - [Link 1](#), [Link 2](#)

Solr URL *

The URL of the Solr installation. Defaults to localhost:8080/solr.

✓ Successfully connected to Solr server at cairncamp.islandora.ca:8080/solr. (0.02 ms)

Request handler

Let Solr decide ▾

Request handlers, as defined by `solrconfig.xml`.

DISPLAY PROFILES

Primary display profiles

DEFAULT	ENABLED	NAME	MACHINE-READABLE NAME
+	<input checked="" type="checkbox"/>	List (default)	default
+	<input checked="" type="checkbox"/>	Grid	grid
+	<input checked="" type="checkbox"/>	Table	table
+	<input checked="" type="checkbox"/>	Bookmark	bookmark

Preferred normal display profile for search results. These may be provided by third-party modules.

Secondary display profiles

Configuration cont'd

- Default Display settings
 - Add and configure fields (permissions etc.)

Display fields

[Show row weights](#)

SOLR FIELD	SETTINGS	OPERATIONS
⊕ mods_titleInfo_title_ms	Label: Article Title	configure remove
⊕ dc.contributor	Label: Author(s)	configure remove

Configuration cont'd

- Sort Settings
 - add a field (must be single valued try fgs_createdDate_dt)
 - configure and save field

Sort fields

[Show row weights](#)

SOLR FIELD	SETTINGS	OPERATIONS
⊕ fgs_createdDate_dt	Label: Date Created	configure remove
⊕ fgs_label_s	Label: Article Title	configure remove

Configuration cont'd

- Facet Settings
 - add a field (Use a String _s try RELS_EXT_hasModel_uri_ms)
 - configure and save field

Sort fields

[Show row weights](#)

SOLR FIELD	SETTINGS	OPERATIONS
⊕ fgs_createdDate_dt	Label: Date Created	configure remove
⊕ fgs_label_s	Label: Article Title	configure remove

Configuration cont'd

- Advanced Search
 - add a field (Use a text field try dc.title and dc.description)
 - configure and save fields
 - enable and configure the advanced search block

Configuration cont'd

- Query Defaults
 - namespaces
 - Solr default query (for empty search)
 - Sort field for default query (single valued)
 - Solr base filter
 - Additional filters beyond namespace (you could limit to a certain cmodel or language try
RELS_EXT_hasModel_uri_ms: info\:fedora/islandora\
newspaperIssueCModel)
 - Query Fields (these are fields searched by simple search, defType=dismax)

Configuration cont'd

- Required Solr fields

These are fields that the code that generates the search results depend on.

Content model Solr field *

RELS_EXT_hasModel_uri_ms

Solr field containing the content model URIs. This should be a multivalued string field

Datastream ID Solr field *

fedora_datastreams_ms

Solr field containing the populated datastream IDs. This should be a multivalued string field. If this field is not populated, the DSID of TN will be assumed valid for thumbnails.

...

Metadata Display

Instead of reading a datastream like DC for the Details display (metadata) you can use Solr fields for this display. [Link](#)

You need to have the Islandora Metadata display enabled and then choose to use it in the [admin/islandora/metadata](#) config section

Metadata display

- Then configure the module [here](#)

Field Configuration

General Configuration

NAME	ASSOCIATED CONTENT MODELS	MACHINE NAME
default	• islandora:sp_basic_image	default

ADD A CONFIGURATION

Configuration name

Machine name

A unique machine name used in the exportation of features

Islandora Solr Facet Pages

An A to Z list based on a Solr field

[Example](#)

[Admin interface](#)

Documentation

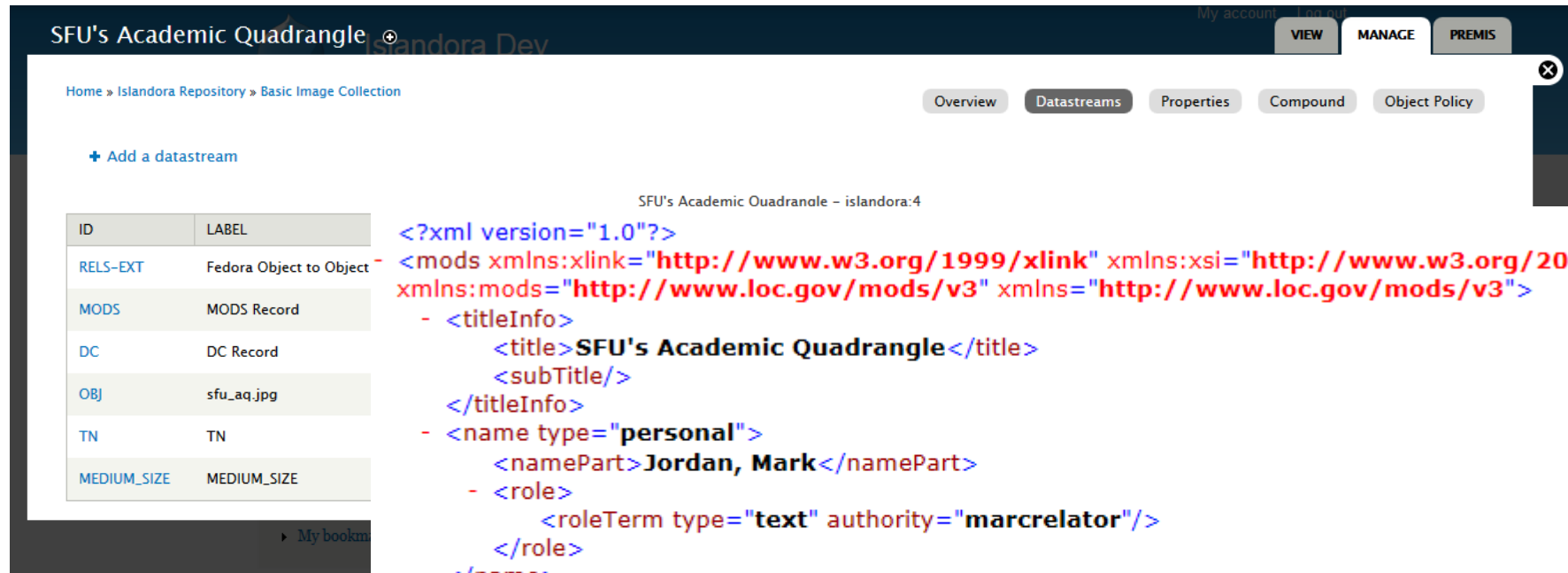
- [Islandora wiki](#)
- [Islandora github repository](#)
- [Islandora Solr module](#)
- [Islandora Solr Metadata display](#)

Form Builder Overview

- Introducing the XML Form Builder
- Solution Pack metadata forms
- Modifying existing forms
- Creating new forms
- Cookbook

What is the XML Form Builder?

- A collection of Drupal modules that allow for the manipulation of XML documents (datastreams) through Drupal forms



The screenshot shows the SFU's Academic Quadrangle interface. On the left, there is a table of datastreams with columns 'ID' and 'LABEL'. The table contains the following rows:

ID	LABEL
RELS-EXT	Fedora Object to Object
MODS	MODS Record
DC	DC Record
OBJ	sfu_aq.jpg
TN	TN
MEDIUM_SIZE	MEDIUM_SIZE

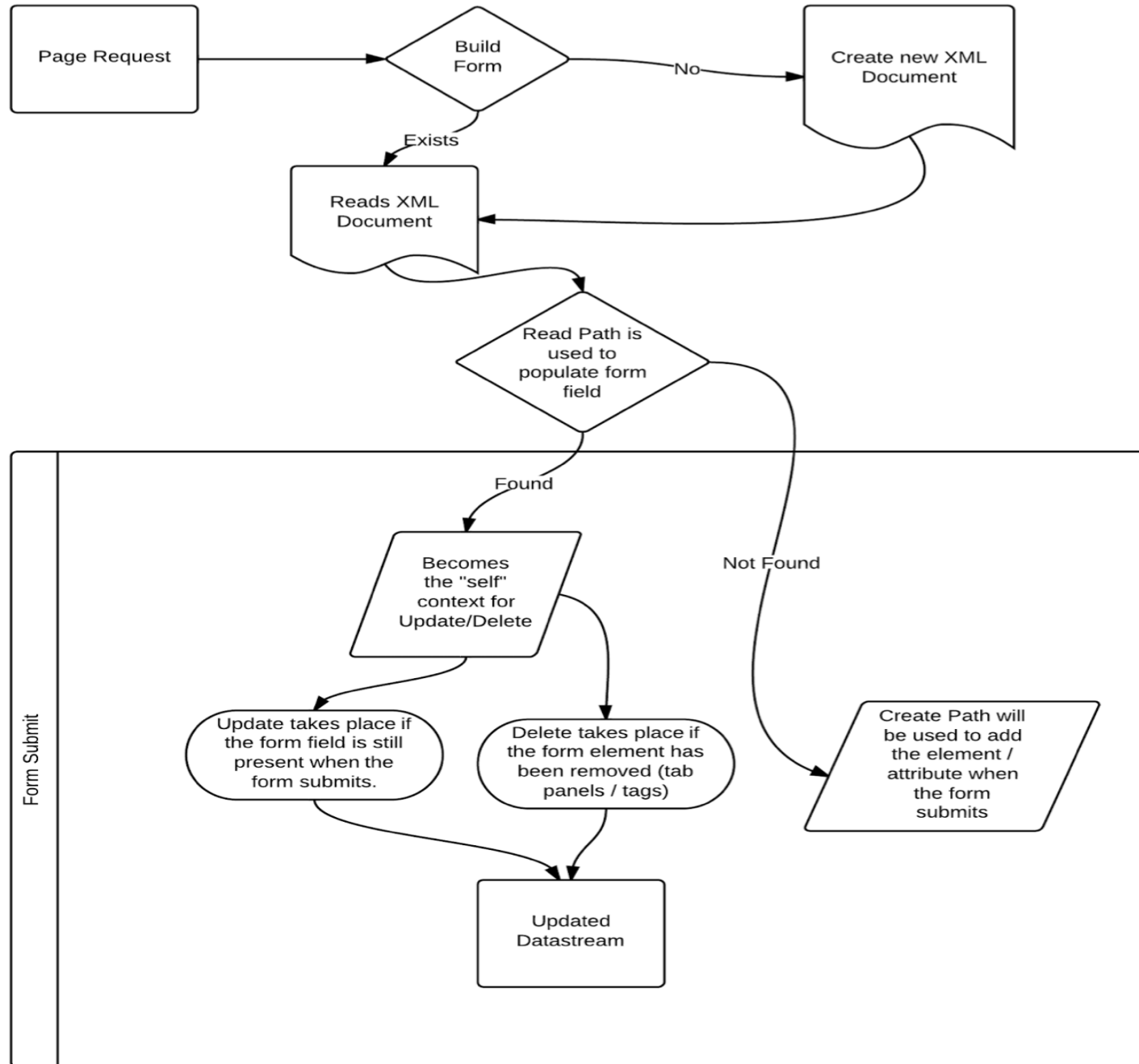
On the right, there is an XML code editor showing the following code:

```
<?xml version="1.0"?>
<mods xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:xsi="http://www.w3.org/200
xmlns:mods="http://www.loc.gov/mods/v3" xmlns="http://www.loc.gov/mods/v3">
- <titleInfo>
  <title>SFU's Academic Quadrangle</title>
  <subTitle/>
</titleInfo>
- <name type="personal">
  <namePart>Jordan, Mark</namePart>
  - <role>
    <roleTerm type="text" authority="marcrelator"/>
  </role>
</name>
<typeOfResource>still image</typeOfResource>
<genre authority="lctgm"/>
- <originInfo>
  <dateIssued>2013-06-23</dateIssued>
  <publisher/>
  - <place>
```

Features

- Works with most metadata standards (that have an XML schema)
- Will work with custom XML schemas
- Highly configurable
- Forms are portable
- Secure
- Built upon the existing Drupal Form API

Drupal Forms API



25 commits

1 branch

0 releases

8 contributors



branch: master

islandora_ingest_forms / +

Merge pull request #10 from ljsmart/patch-1



ruebot authored on 15 Mar

latest commit a9ad8c949d

DC	Nice and pretty xml	6 months ago
DarwinCore	A reorganization of the existing forms and additions	9 months ago
EAC-CPF	A reorganization of the existing forms and additions	9 months ago
FGDC	A reorganization of the existing forms and additions	9 months ago
LIDO	Nice and pretty xml	6 months ago
MADS	Nice and pretty xml	6 months ago
METSRights	Nice and pretty xml	6 months ago
MODS	Create Caltech MODS	3 months ago
PBCore	Nice and pretty xml	6 months ago
README.md	Fixed text and links in README	9 months ago

README.md

But...

- It's not very user friendly
- It's not very simple
- It's not very intuitive
- It has some limitations

Form Elements



Supported

- button
- textfield
- textarea
- select
- hidden
- value
- markup
- fieldset
- datepicker

Not fully supported

- checkbox
- checkboxes
- date
- file
- managed_file
- password_confirm
- radio
- radios
- tableselect
- vertical_tabs
- weight
- button
- image_button
- submit

Solution Pack Metadata Forms

Form Builder   Islandora 7.x-1.3 Sandbox My account Log out

Home » Administration » Islandora

[+ Create Form](#) [+ Import Form](#)

TITLE	TYPE	OPERATIONS			
Audio MODS form	Built-in	Copy	View	Export	Associate
Basic image MODS form	Built-in	Copy	View	Export	Associate
Citation MODS form	Built-in	Copy	View	Export	Associate
Compound Object MODS form	Built-in	Copy	View	Export	Associate
Islandora Book MODS Form	Built-in	Copy	View	Export	Associate
Large image MODS form	Built-in	Copy	View	Export	Associate
Newspaper	Built-in	Copy	View	Export	Associate
Newspaper Issue	Built-in	Copy	View	Export	Associate
PDF MODS form	Built-in	Copy	View	Export	Associate
Thesis MODS form	Built-in	Copy	View	Export	Associate
Video MODS form	Built-in	Copy	View	Export	Associate
Web ARChive MODS form	Built-in	Copy	View	Export	Associate



[Home](#) » [Islandora Repository](#)

Book Title *

Sub Title

Name

1	<input type="text"/>
---	----------------------

Type

Name

Role

marcrelator

Genre

marcgt

Table of Contents

Home » Islandora Repository

Title *

Sub Title

Name

1	
---	--

Type

Name

Role

Select a role from this vocabulary - <http://id.loc.gov/vocabulary/relators.html> - e.g. Artist, Creator, Designer, Engraver, Illustrator, Photographer, Printmaker, etc.

Add

Type of Resource

Genre

ORIGIN INFORMATION

Date Captured

Using the Form Builder

- Relies on XPath expressions to identify the MODS XML elements (for example) that each form element reads/modifies
- Provides a user interface for
 - browsing elements in schema
 - Assigning common attributes
 - Defining XPath expressions for CRUD (Create/Read/Update/Delete) operations
 - Defining “Advanced Form Controls” and “More Advanced Controls”

Form Editor

Form Properties

Save & Preview

Save

Elements

Add Copy Paste Delete

- Root (form)
 - titleInfo (markup)
 - title (textfield)
 - subTitle (textfield)
 - name (tabs)
 - 0 (tabpanel)
 - type (select)
 - namePart (textfield)
 - role (textfield)
 - typeOfResource (select)
 - genre (textfield)
 - originInfo (fieldset)
 - dateIssued (textfield)
 - publisher (textfield)
 - country (textfield)
 - place (textfield)
 - language (textfield)
 - abstract (textarea)
 - identifier (textfield)
 - physicalDescription (fieldset)
 - form (select)
 - extent (textfield)
 - note (textarea)
 - subject (fieldset)
 - topic (tags)
 - 0 (tag)
 - geographic (tags)
 - 0 (tag)
 - temporal (tags)
 - 0 (tag)
 - hierarchicalGeographic (field...)
 - continent (select)

Element Form

Identifier:

title

Common Form Controls

Advanced Form Controls

More Advanced Controls

Type:

textfield

Title:

Title

Description:

Default Value:

Required:

Create

Path Context:

parent

Path:

self::node()

Schema:

Type:

element

Value:

title

Read

Path Context:

parent

Path:

mods:title

XPath

- Language used to identify (or “select”) paths to nodes in XML documents
- Some examples

Expression	Explanation
author	Selects all <author> elements in the current context
//author	Selects all <author> elements in the document
/books	Selects the top-level element in a document with outer tags <books></books>
book/@cost	Selects the value of the “cost” attribute in <book cost=“23.95”>

XPath in the Form Builder interface

- XPaths describe where the action will take place in the XML Document.
- `self::node()` is common and used in various contexts, most often in Create, Update, and Delete settings
- Explicit path to the element (e.g. “`mods:OriginInfo`”), most often in Read settings

CRUD Operations

- Create
 - After the form is submitted, the new element/attribute is created and appended to the parent XML element
- Read
 - Before form is displayed, populates it with data from an XML document
- Update
 - After the form is submitted, the value in the form field to is used to update the element/attribute selected
- Delete
 - After the form is submitted, the selected element/attribute is deleted

Create / Update Variables

- Attribute
 - e.g., `<name type="personal">Joe</name>`
- Element
 - e.g., `<genre>book</genre>`
- XML snippets and the use of %value%
 - e.g., `<typeOfResource collecton="yes">%value%</typeOfResource>`

Cookbook

- Adding a custom field validation function
- Creating a basic Dublin Core form for collections
- Using Drupal taxonomies as controlled vocabularies

Adding a Custom Field Validation Function

1. Associate the function with the field
2. Add the function to a Drupal module

1. Associate the function with the field

The screenshot displays the 'Form Editor' interface. On the left, the 'Elements' tree shows a hierarchy of form components. The 'genre (textfield)' element is selected and highlighted. The main 'Element Form' panel on the right shows the configuration for the selected 'genre' field. The 'Identifier' is set to 'genre'. Below the identifier, there are three tabs: 'Common Form Controls', 'Advanced Form Controls', and 'More Advanced Controls'. The 'More Advanced Controls' tab is highlighted with a red rectangle. Underneath the tabs, there are sections for 'User Data' and 'Submit', each with 'Add' and 'Delete' buttons. A table with 'Key' and 'Value' columns is visible under the 'User Data' section.

Form Editor

Form Properties Save & Preview Save

Elements

Add Copy Paste Delete

- Root (form)
 - titleInfo (markup)
 - title (textfield)
 - subTitle (textfield)
 - name (tabs)
 - 0 (tabpanel)
 - type (select)
 - namePart (textfield)
 - role (textfield)
 - typeOfResource (select)
 - genre (textfield)
 - originInfo (fieldset)
 - dateIssued (textfield)
 - publisher (textfield)
 - country (textfield)
 - place (textfield)
 - language (textfield)
 - abstract (textarea)

Element Form

Identifier:

Common Form Controls Advanced Form Controls **More Advanced Controls**

User Data



+ Add - Delete



Key	Value
-----	-------

Submit

+ Add - Delete

Functions

 **Validate** 

 Add  Delete

Functions

markslaptop_test_collection_genre_validate

2. Add the function to a Drupal module

```
function markslaptop_test_collection_genre_validate($element,
&$form_state, $form) {

  if ($element['#value'] != 'Test genre') {
    form_error($element, t('You need to use "Test genre".'));
  }

}
```

Creating a Dublin Core Form for Collections

1. Create a new form
2. Create a root element
3. Create a title field
4. Create a date field

1. Create a New Form

Form Editor

Form Properties Save & Preview | Save

Elements

Add Copy Paste Delete

- Root (form)

Properties Form

Root Element

Root Element Name:

Namespace URI:

Schema

Name:

Namespaces

+ Add - Delete

Prefix	URI
dc	http://purl.org/dc/elements/1.1/
xsi	http://www.w3.org/2001/XMLSchema-instance
oai_dc	http://www.openarchives.org/OAI/2.0/oai_dc/

2. Configure the Root Element

Form Editor

Form Properties Save & Preview | Save

Elements

Add Copy Paste Delete

Root (form)

Element Form

Identifier:

Common Form Controls | **Advanced Form Controls** | **More Advanced Controls**

Type:

Title:

Description:

Default Value:

Required:

Create

Read

Path Context:

Path:

Update

Delete

3. Create a dc:title Element

Form Properties Save & Preview | Save

Elements
Add Copy Paste Delete

- Root (form)
- dc-title (textarea)

Element Form

Identifier:

Common Form Controls | **Advanced Form Controls** | **More Advanced Controls**

Type:

Title:

Description:

Default Value:

Required:

Create

Path Context:

Path:

Schema:

Type:

Value:

4. Configure dc:title

Read

Path Context:

Path:

Update

Path Context:

Path:

Schema:

Delete

Path Context:

Path:

5. Create and Configure a dc:date Element

The screenshot displays the 'Form Editor' interface. On the left, the 'Elements' panel shows a tree structure: 'Root (form)' containing 'dc-title (textarea)' and 'dc-date (textfield)'. The main 'Element Form' panel is titled 'Form Properties' and includes 'Save & Preview' and 'Save' buttons. It is divided into three tabs: 'Common Form Controls', 'Advanced Form Controls', and 'More Advanced Controls'. The 'Advanced Form Controls' tab is active, showing configuration for the 'dc-date' element. The 'Identifier' is 'dc-date'. The 'Type' is 'textfield'. The 'Title' is 'Date'. The 'Description' is 'Enter the date that the object was created in the format YYYY-MM-DD.'. The 'Default Value' is empty. The 'Required' checkbox is unchecked. There are two sections for 'Create' and 'Read' permissions, both with checkboxes checked. The 'Create' section has 'Path Context' set to 'document', 'Path' set to '/oai_dc:dc', 'Schema' empty, 'Type' set to 'element', and 'Value' set to 'dc:date'. The 'Read' section has 'Path Context' set to 'document' and 'Path' set to '/oai_dc:dc/dc:date'.

Form Editor

Form Properties Save & Preview Save

Elements

Add Copy Paste Delete

- Root (form)
 - dc-title (textarea)
 - dc-date (textfield)

Element Form

Identifier:

Common Form Controls **Advanced Form Controls** **More Advanced Controls**

Type:

Title:

Description:

Default Value:

Required:

Create

Path Context:

Path:

Schema:

Type:

Value:

Read

Path Context:

Path:



Hello admin Log out

Dashboard Content Structure Appearance People Modules Configuration Islandora
Reports Help

Add content Find content

Edit shortcuts

[Home](#)

Preview Form

Title

This is my title.

This is the title of the object.

Date

2013-11-21|

Enter the date that the object was created in the format YYYY-MM-DD.

Submit

Using Drupal Taxonomies as Controlled Vocabularies

1. Create a taxonomy in Drupal
2. Create a content type to attach the taxonomies to
3. In Form Builder, configure a textfield form element (e.g., MODS subject topic) to use the taxonomy as an autocomplete field

1. Create a Taxonomy in Drupal

Home » Administration » Structure

Updated vocabulary *marc_relators*.

Taxonomy is for categorizing content. Terms are grouped into vocabularies. For example, a vocabulary called "Fruit" would contain the terms "Apple" and "Banana".

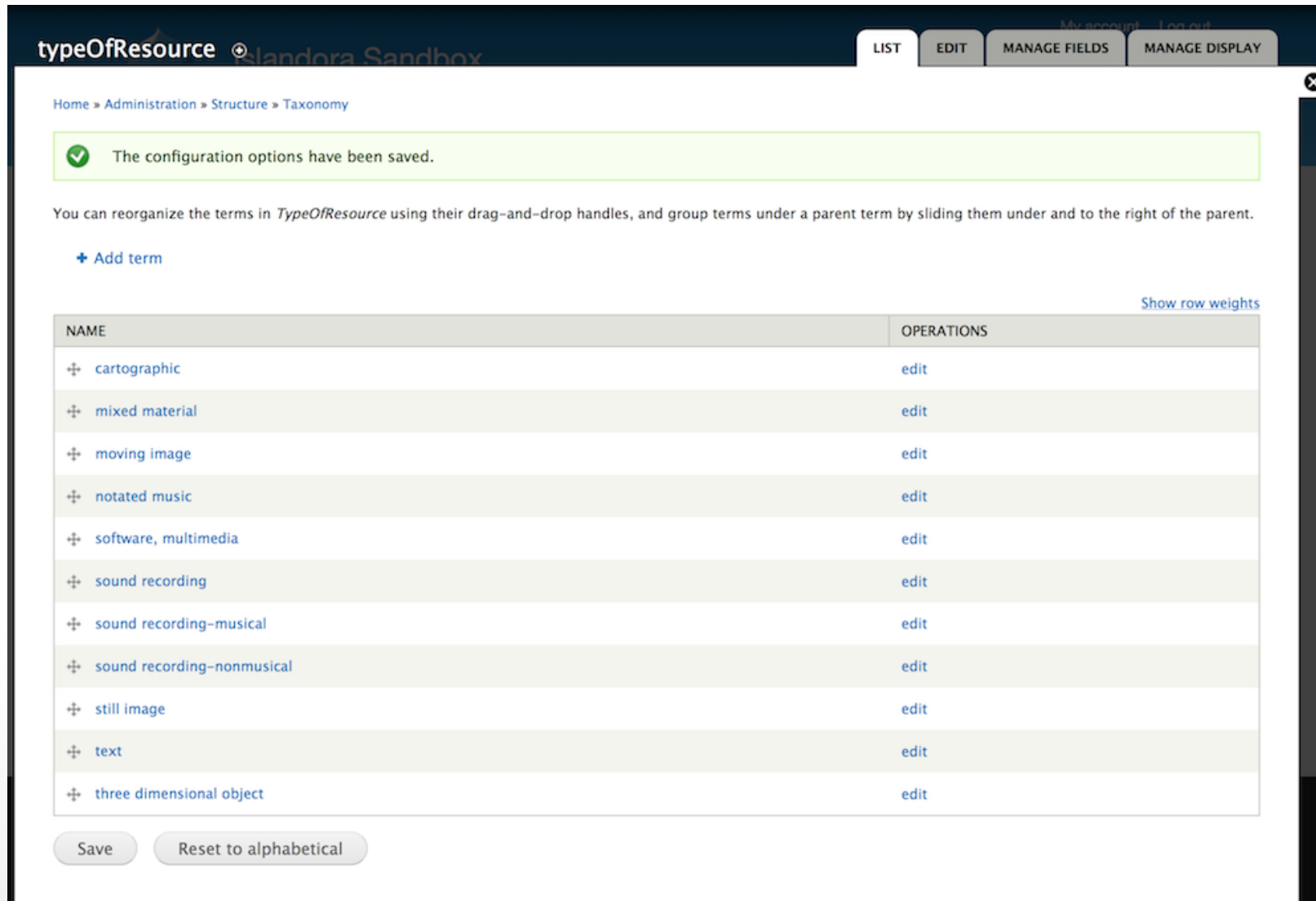
[+ Add vocabulary](#)

[Show row weights](#)

VOCABULARY NAME	OPERATIONS
+ languageTerm_code	edit vocabulary list terms add terms
+ languageTerm_text	edit vocabulary list terms add terms
+ marcgt	edit vocabulary list terms add terms
+ marc_country	edit vocabulary list terms add terms
+ marc_relators	edit vocabulary list terms add terms
+ Tags	edit vocabulary list terms add terms
+ typeOfResource	edit vocabulary list terms add terms

[Save](#)

2. Populate the Taxonomy



The screenshot shows the 'typeOfResource' administration interface. At the top, there is a navigation bar with 'typeOfResource' and 'Islandora Sandbox' on the left, and 'LIST', 'EDIT', 'MANAGE FIELDS', and 'MANAGE DISPLAY' buttons on the right. A breadcrumb trail reads 'Home » Administration » Structure » Taxonomy'. A green success message states 'The configuration options have been saved.' Below this, a text block explains that terms can be reorganized using drag-and-drop handles and grouped under a parent term. A '+ Add term' link is present. A table with two columns, 'NAME' and 'OPERATIONS', lists various terms, each with a drag handle and an 'edit' link. A 'Show row weights' link is located to the right of the table. At the bottom, there are 'Save' and 'Reset to alphabetical' buttons.

Home » Administration » Structure » Taxonomy

✓ The configuration options have been saved.

You can reorganize the terms in *TypeOfResource* using their drag-and-drop handles, and group terms under a parent term by sliding them under and to the right of the parent.

+ Add term

Show row weights

NAME	OPERATIONS
+ cartographic	edit
+ mixed material	edit
+ moving image	edit
+ notated music	edit
+ software, multimedia	edit
+ sound recording	edit
+ sound recording-musical	edit
+ sound recording-nonmusical	edit
+ still image	edit
+ text	edit
+ three dimensional object	edit

Save Reset to alphabetical

3. Create a Content Type for Taxonomies

islandora autocomplete field

EDIT

FEDORA COMMONS

MANAGE FIELDS

MANAGE DISPLAY

COMMENT FIELDS

COMMENT

[Home](#) » [Administration](#) » [Structure](#) » [Content types](#) » [islandora autocomplete fields](#)



Your settings have been saved.

[Show r](#)

LABEL	MACHINE NAME	FIELD TYPE	WIDGET	OPERATIONS
+ Title	title	Node module element		
+ Body	body	Long text and summary	Text area with a summary	edit delete
+ marcgt	field_marcgt	Term reference	Autocomplete term widget (tagging)	edit delete
+ lang_term_text	field_lang_term	Term reference	Autocomplete term widget (tagging)	edit delete
+ lang_term_code	field_lang_term_code	Term reference	Autocomplete term widget (tagging)	edit delete
+ typeofresource	field_typeofresource	Term reference	Autocomplete term widget (tagging)	edit delete
+ Add new field				
<input type="text"/>		<input type="text" value="- Select a field type -"/>	<input type="text" value="- Select a widget -"/>	
Label		Type of data to store.	Form element to edit the data.	
+ Add existing field				
<input type="text"/>	<input type="text" value="- Select an existing field -"/>		<input type="text" value="- Select a widget -"/>	
Label	Field to share		Form element to edit the data.	

Save

4. Configure the Form Field

Home

Form Editor

Form Properties Save & Preview

Elements

Add Copy Paste Delete

- Root (form)
 - titleInfo (markup)
 - title (textfield)
 - subTitle (textfield)
 - name (tabs)
 - 0 (tabpanel)
 - type (select)
 - namePart (textfield)
 - role (textfield)
 - typeOfResource (select)
 - typeOfResource_auto (textfield)**
 - genre (textfield)
 - originInfo (fieldset)
 - dateIssued (textfield)
 - publisher (textfield)
 - country (textfield)
 - place (textfield)
 - language (textfield)
 - abstract (textarea)
 - identifier (textfield)
 - physicalDescription (fieldset)
 - form (select)

Element Form

Identifier: typeOfResource_auto

Common Form Controls | **Advanced Form Controls** | More Advanced Controls

Access:

Autocomplete Path: taxonomy/autocomplete/field_typeofresource ← taxonomy/autocomplete/field_typeofresource

Button Type:

Cols:

Disabled:

Delta:

Prefix:

Suffix:

Theme:

Weight:

Tree:

Field Prefix:

Field Suffix:

This is the machine name of the taxonomy field you added to your form.

Add content Find content

Edit shortcuts

personal ▾

Name

Role

Select a role from this vocabulary - <http://id.loc.gov/vocabulary/relators.html> - e.g. Artist, Creator, Designer, Engraver, Illustrator, Photographer, Printmaker, etc.

Add

Type of Resource

still image ▾

Type of Resource

- so|
- software, multimedia
- sound recording
- sound recording-musical
- sound recording-nonmusical
- WARC genre terms

ORIGIN INFORMATION

Date Issued

Resources

- "How to Edit/Create Ingest Forms" Islandora Wiki. <https://wiki.duraspace.org/pages/viewpage.action?pageId=45547834>
- Banks, Nigel. "XML FormBuilder and You" IslandoraCampCA, January 2014. <http://islandora.ca/sites/default/files/XML%20Form%20Builder.pdf>
- Moses, Donald. "Drupal Taxonomies and Islandora XML Form Builder autocompletes" Post to Islandora Google Group. April 3, 2014. https://groups.google.com/forum/#!searchin/islandora/drupal%20taxonomies/islandora/O5bXlqeAVoc/w8J_L74Kl7oJ

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Managing Digital Content