Islandora 101
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Islandora Foundation
Intro to Islandora
Islandora is...
Drupal is...

- open **Content Management Framework** software maintained and developed by 630,000+ users and developers.

- endlessly customizable via **Modules** - functional plugins that either come with drupal or are developed by the community.
Drupal is...

- the "website" side of Islandora. Non-repo pages, menus, site theme, users - These are all managed by Drupal.

- content (pages, news items, users, etc) stored as nodes.
Fedora is... Flexible, Extensible, Digital/durable Object Repository Architecture (general-purpose, open-source digital object repository system).
Fedora is...

- a content and relationship modeling framework that preserves the integrity of collections and can be modified to manage any digital asset.

- the storage layer of Islandora. Objects ingested into Islandora are stored in a Fedora repository - not in Drupal.
Islandora is...

- a collection of Drupal modules that enables you to create, ingest, and manage objects stored in a Fedora repository.

- the flexibility of Drupal on top of the robust storage of Fedora.
Drupal
First Steps

Go to the home page of your Islandora site

http://localhost:8181/
Change the Theme

- From the top menu, select **Appearance**.
- Scroll down to **Bartik** and set it as default.
Create a Front Page

- Select "Add Content"
Create a Front Page

- Select **Basic Page** and fill out a title and basic content.
- Give your page a URL alias of **home**

- Navigate to **Configuration -> Site information**
- Under **Default front page**, enter **home**
- Save your changes.
Change the Logo

- Navigate to Appearance
- Find the default theme (Bartik)
  - Select Settings
- Find Logo Image Settings
- Put in whatever you like. Small images work better - they will not resize to the space. You can use the camp logo at:

  http://islandora.ca/sites/default/files/images/lobster.png
Menus

- Navigate to **Structure -> Menus**

- Pick **Main menu** and **list links**:
Add a Home Link

- Select +Add link

- Name the new link **Home** and enter `<front>` as the path
  - `<front>` is a Drupal term that will always point to the front page of your site. Paths do not normally have <> marks.
Add a Home Link

- Make sure the link is **enabled** and that the parent link is `<Main menu>`

- Give a weight of **-50** so the link will be first in the menu bar.
  - You can also drag to reorder on the **list links** page.
Create an About page with a brief description of your site and create an About menu item that comes after Home.
Create a User

- Navigate to **People** and the **List** tab
- Select **+Add user**
  - Use whatever email address and username you like.
  - **Do not** set this user as an administrator.
- Create new account
Create a Role

- Under **People**, navigate to the **Permissions** tab and select **Roles**.
Create a Role

- Add a new role called **viewer**
- Edit permissions for the **viewer** role
- Scroll to the **islandora** permissions.
  - This is where you need to understand basic FedoraCommons concepts...
FedoraCommons Concepts

- Everything is an object
- Objects are made of datastreams
- Content Models are templates for Objects
- All Objects have unique persistent identifiers, or PIDs
- Objects are connected in a graph-like structure
This is a useful oversimplification
Islandora Permissions

● View repository objects
  ○ View objects in the repository. A basic permission to view any Islandora collections. Fedora XACML security policies may override this permission by subtracting permissions.

● Add datastreams to repository objects
  ○ Add datastreams to objects in the repository. Fedora XACML security policies may override this position.
Islandora Permissions

● Edit metadata
  ○ Edit MODS metadata for objects in the repository.

● Create new repository objects
  ○ Ingest new objects into the repository.
Islandora Permissions

- Permanently remove objects from the repository
  - Purge objects. This deletes from Fedora, not just Drupal’s view.

- Manage object properties
  - Modify object labels, owner IDs, and states.
Islandora Permissions

- View datastream history
  - View all previous versions of a datastream.

- Revert datastream history
  - Roll back to previous version.
Islandora Permissions

- Manage deleted objects
  - View and manage objects with a status set to “deleted”
- Regenerate derivatives
  - Regenerate derivatives for an object or per datastream.
- Replace Datastreams
  - Add new datastream content as latest version.
Islandora Permissions

- Many other modules come with permissions

<table>
<thead>
<tr>
<th>Islandora BagIt</th>
<th>Islandora Simple Workflow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Islandora Batch</td>
<td>Islandora Solr</td>
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<tr>
<td>Islandora Bookmark</td>
<td>Islandora Solr Metadata</td>
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<td>Islandora Image Annotation</td>
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<td>Islandora Paged Content</td>
<td>Islandora Compound Object</td>
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<td>Islandora Scholar Embargo</td>
<td>Islandora XML Form Builder</td>
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</tbody>
</table>
Edit Permissions

- Under **Islandora** permissions, find the permission to **View repository objects** and:
  - Remove from **Anonymous** and **Authenticated**
  - Grant to **Viewer** role

- Save permissions
Give your user this role

- Return to People (admin/people) and find the user you created earlier, edit this user, and grant them the **viewer** role.

- Log out of **admin** and login as your **viewer** account.

- Log out of your **viewer** account and login as:
  - Username: oprime
  - Password: cybertron

- Observe the differences in what you can access. Log back in as **islandora**.
Exercise - Users

- Create a new user and a **manager** role.
- Give the **manager** role permissions appropriate to edit and delete objects.
- Assign the new user to the **manager** role.
Blocks are the boxes visible in various area of your Drupal website's screens. Most blocks (e.g., recent forum topics) are generated on-the-fly by various Drupal modules.

Whether, and where, a given block will appear on a page depends on both the theme enabled and on administrative block settings.

https://drupal.org/documentation/blocks
Working with Blocks

- In the administrative menu, select **Structure** and then **Blocks**

- Scroll down to the **Sidebar First** blocks and find **Islandora simple search**

- Click **Configure**
Working with Blocks

- In **Region Settings**, set the block to display in the **First Sidebar**
  - To see where each region is, click **Demonstrate block regions** in the main Block menu

- Scroll down **Pages**. Under **Show block on specific pages**, check **All pages except those listed**
Working with Blocks

- Enter `islandora/search/*` and save block.
  - This path will catch all search results pages by putting a wildcard at the end of the standard search results url.
Working with Blocks

- Close the **Blocks** administrative menu and go back to the front page of the site.

- Search in the first search box for **cats**.

- Search in the **Islandora simple search** box for **cats**. You’re now searching the contents of your Fedora repository (we’ll make the results look better later).
Exercise - Blocks

- Navigate back to the **Blocks** admin menu, look for the blocks displayed in the **First sidebar**
- Find **Search form** and set it to **-none-**
- Scroll to the bottom and save blocks. Now only **Islandora simple search** is available for quick searching.
- Remove the visible label from the **Islandora simple search** block
- Set the block so that it does not display on your About page.
Setting up Islandora
Basic Settings

- Islandora 7.x has its own administrative menu, found under `/admin/islandora`

- All configuration options for Islandora modules (solution packs, tools, forms, etc) can be found here.
General configuration

- `admin/islandora/configure` or `Configuration` in the Islandora admin menu. Here you can:
  - Verify your site's connection to Fedora
  - Set the root collection PID used by Fedora
Solution Packs

Islandora Solution Packs are Drupal modules offering custom Content Model Objects, Workflows, and Ingest Forms.

Solution Packs present a starting point for users with particular types of data, such as books or audio files, based on standard use cases.
Adding a Solution Pack

- Islandora Solution Packs can be found via http://islandora.ca/downloads

- Select your version, scroll down to the Downloads section, and download the modules you want to use. To install, check the instructions for that module. Most can be installed just like any Drupal module, although dependencies can get complicated.
Adding a Solution Pack

- For today, we are going to enable modules that have already been installed.
Adding a Solution Pack

- Navigate to the **Modules** admin page
- Scroll to **Islandora Solution Packs**
- Find Islandora Video
- Enable and save.
Verify the New SP

- Go to the Islandora admin page
- Select Solution pack configuration
- Select Solution packs required objects
- Verify that all is well with your new SP’s required files:

<table>
<thead>
<tr>
<th>Islandora Video</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object status:</strong> ⚠ Some objects are missing and must be installed. See objects list for details.</td>
</tr>
<tr>
<td>LABEL</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Demo Collection - Delete if you want</td>
</tr>
<tr>
<td>Video Collection</td>
</tr>
</tbody>
</table>
Configure the new SP

- Go back to the **Solution pack configuration**

- Select **Video Solution Pack**
  - Select JWPlayer as your viewer so that audio files can be played within your site.
  - Select derivatives and processing options
  - **Save configuration.**
Ingesting Objects
Batch Ingesting
Purging Objects
Editing Metadata
The End.

Unless it isn’t.

Do you want to learn more basics? Try these:

Building Collections
Working with Form Builder
All About XACML
Solr Front-end