Islandora Overview

Pairing Drupal with Fedora for a Robust Digital Repository
Islandora Foundation

Islandora Foundation

A soliciting non-profit found in July, 2013 to steward the Islandora project and future development of both the software and the community.
What is Islandora?

Islandora is an open-source software framework designed to help institutions and organizations and their audiences collaboratively manage, and discover digital assets using a best-practices framework. Islandora was originally developed by the University of Prince Edward Island's Robertson Library, but is now implemented and contributed to by an ever-growing international community.
What is Islandora?

(Data Storage and Retrieval)
What is Islandora?

- Drupal 7
- Solr
- Fedora 3
- Solution Packs
Drupal is...

- open **Content Management Framework** software maintained and developed by more than 100K active 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.
- a GUI for managing the repo.
- popular with universities and libraries.
Fedora Commons

You Are Here
Fedora is...

Flexible, Extensible, Digital/durable Object Repository Architecture

(general-purpose, open-source digital object repository system).
Fedora is...

- a unique 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 and managed with Islandora are stored in a Fedora repository - not in Drupal.
Fedora 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
Fedora Concepts

Reality

Presentation
Solr is...

- an open source enterprise search platform with:
  - full-text search
  - hit highlighting
  - faceted search
  - real-time indexing
  - dynamic clustering
  - database integration
  - rich document (e.g., Word, PDF) handling.
**Solr is...**

- the search and discovery layer of Islandora.
- blazingly fast.
Islandora is...

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

- The ease and flexibility of Drupal on top of the robust storage of Fedora, with Solr for discovery.
Why Islandora?

- **Drupal.** Website front-end is part of the package. Easy, incredibly customizable, commonly adopted open-source content management system. More than 100K active contributors.

- **Customization.** Pick and choose Solution Packs, Viewers, and Tools to make Islandora fit your needs. Easy to customize further.

- **Support.** Active community of users providing support & development. Multiple service companies available for paid support.

- **Open Source.** Free to use. Developed in the open. Islandora and everything in it is open source and always will be.

- **Store Anything.** Any file type. Any metadata.
The near future...
What is Islandora?

- Drupal 8
- Solr
- Fedora 4
- Modules
- Microservices
Why CLAW?

- **Fedora 3 is EOL.** Fedora 4 is actively supported, more scalable, and speaks Linked Data.
- **Integration.** Better use of Drupal, Fedora, and other parts to do what they do best. Feels more like Drupal on the front-end.
- **Interoperability.** Shared PCDM data model with other popular open-source repositories.
- **Community Design.** The Islandora community is much bigger, more diverse, and more involved than during previous version development. We can design and build it together.
Islandora CLAW
Islandora CLAW MVP

- Minimum Viable Product
  - All the tools and functions needed for a first release.
  - Alpha MVP **May 15**; Beta MVP **June 30**
Islandora CLAW MVP

- Content modeled in Drupal as Entities using PCDM 1.0
- REST API exposed for Drupal Entities
- Support for collections, images, books, and pages
- The ability to control metadata mappings between Drupal and RDF
- Provide RDF based default descriptive metadata profile in Drupal
- The ability to export/import JSON-LD
- Automatic backup of Drupal content in Fedora 4
- Ability to restore/bootstrap a Drupal site from a properly structured Fedora 4 repository
- The ability to index and search resources with Apache Solr
- The ability to restrict access to collections and/or individual resources across all representations (Drupal, Fedora, Solr, etc...)
- Asynchronous derivative generation
- Vagrant environment for development purposes, which will serve as a starting point for more complicated, distributed installs

http://islandora-claw.github.io/CLAW/mvp/mvp_doc
Islandora Foundation
History

- Developed at UPEI in 2006
- AIF Grant 2010 - 2013
- Islandora Foundation - July 2013
Islandora Community
Community Development

- **GitHub**
  - Integrated testing (Travis)
  - Committers
  - “Core,” Labs, CLAW, Interest Groups, and Deprecated repositories.

- **JIRA**
  - Ticketing system
  - Bugs, Features, Improvements
  - Bi-weekly review
Community Development

- Releases
  - All volunteer
  - April & October
  - Maintainers, Testers, Documenters, and Auditors.
Questions?

EXCUSE ME SIR

I MUSTACHE YOU A QUESTION

http://www.quickmeme.com/meme/35jx1i