Islandora Foundation and the Terrific Twos: An Islandora Community Update
What is Islandora?
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?
What is Islandora?

- 7.x-1.5
- 45 modules
- Tested with these versions:
  - Fedora 3.5, 3.6.2, 3.7.0, 3.8.0, 3.8.1
  - GSearch 2.6.2, HEAD
  - Solr 3.6.2, 4.2.0
  - PHP 5.3.3, 5.4, 5.5
  - Djatoka 1.1
  - Java (Oracle) 6,7,8
History

- Developed at UPEI in 2006
- Core team at discoverygarden/UPEI Library
- Need to meet the diverse needs of digital asset management in all areas
- Key requirements:
  - Change all or some components over time
  - Integrate with other systems
History

Atlantic Innovation Fund grant from 2010-2013 funded development and staff for the project, ending in Summer 2013.
Present Day

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.

Member supported:
- Partners - $10,000
- Collaborators - $4000
- Members - $2000
Islandora Community
Islandora Installations
Islandora Community

100+ public sites, 707 listserv members, 74 GitHub members, 30+ Committers, 15 Contributed Modules, 21 Foundation members (11 Partners!), 7 Interest Groups, 3 Community-led software releases, 13 Camps.
Islandora Foundation

Partners:

UPEI University of Prince Edward Island
LYRASIS Advancing Knowledge
University of Manitoba
McMaster University
University of Limerick
SFU Simon Fraser University
York University
The University of Tennessee
University of Toronto Scarborough
Islandora Foundation

Collaborators:
- UCLA
- University of Connecticut
- American Philosophical Society
- Common Media

Members
- California Institute of Technology
- PALS (Minnesota State Colleges and Universities)
- Technical University of Denmark
- University of Saskatchewan
- Chinese University of Hong Kong
Foundation Board

Board of Directors:

- Mark Leggott, University Librarian, UPEI (Chair)
- John Eden, discoverygarden Inc. (Treasurer)
- Melissa Anez, Islandora Foundation (Vice-Chair)
- Peter Murray, LYRASIS
- Mark Jordan, Simon Fraser University
- Lisa O’Hara, University of Manitoba
- Adam Taves, York University
- Dale Askey, McMaster University
Roadmap Committee

- Mark Leggott, UPEI
- Donald Moses, UPEI
- Paul Pound, UPEI
- Melissa Anez, Islandora Foundation
- David Wilcox, DuraSpace
- Nick Ruest, York University
- Kirsta Stapelfeldt, University of Toronto Scarborough
- Jennifer Eustis, University of Connecticut
- Mark Cooper, LYRASIS
- Nigel Banks, discoverygarden Inc.
- Gabriela Mircea, McMaster University
Interest Groups

● Preservation
● Archives
● Documentation
● GIS
● Fedora 4
● Metadata
● Dev Ops
● UI/UX (pending)
Listservs

User and Dev groups for: troubleshooting, coordinating, networking, news, suggestions, bugs, and more.
Committers Calls and JIRA

**JIRA**: Bug tracking, feature requests, code and doc tasks.

**Committers**: Weekly at 2PM EDT via Skype
And a Conference!

Charlottetown, PEI
August 3 - 7

http://islandora.ca/camps/conference2015
The old way...

Writing Islandora code begins in one of three ways:

1. **Idea for improvement or client request**
   - Two items must be created by the developer:
     1. A JIRA ticket
     2. A message on the developers list "I am developing/I would like to develop" referencing the JIRA ticket number.
   - Discussion in mailing list and committers meeting. If consensus cannot be achieved, the issue is escalated to the Roadmap management meeting.

2. **Bug**
   - Bug is assigned to or assumed by most appropriate programmer. In the advent that there is not consensus, the issue is escalated to the Roadmap management meeting.

3. **Contribution from community external to UPEI or DGI**
   - UPEI or DGI developer takes stewardship of code to integrate into system.
   - A current module is forked into a developer's private repository OR a new repository is created. While developing, a developer pushes regularly to GitHub, allowing for others to track progress.

Pull request

Code Committed

Testing & Review by Group coordinated by release manager.
The new way...

Coding Standards
The Islandora module follows the Drupal coding standards for the module.

Coding Standards

How Islandora Code gets Made

Contributing to Islandora

Islandora is committed to being a great open source project and to help improve that we are introducing new policies to improve our transparency. Communication is key to any successful project and we want to make sure the community is able to contribute.

All new features should be discussed openly on the development forum giving the full community the opportunity to make recommendations and contribute to the development. The feature will then be broken down into tasks that will be managed by Jira tickets. Bugs will simply be represented as a bug ticket in the Jira system.

Code Repository

Github supports repositories for the Islandora and the DGI code repositories. Islandora is considered to be the master repository and is co-maintained by UPE/UGI, and the DGI repository is a downstream repository that is maintained by DGI. We are moving to a new system of governance with the Islandora Foundation and information here may not always be up to date.

For code to be accepted into the master Islandora repository, a developer must publish the code in a forked repository and make a pull request. After the code has been reviewed and signed off then the code will be merged into the project. We use Travis for unit testing and apply 100% coverage and Jenkins is reviewers is advisable. It is also vital that its being stared before submission to ensure for style checking in Drupal.

Documentation for developers

- Working With Fedora Objects Programmatically Via Tuque
- Working Programmatically With XML Forms
- Programming Solution Packs
- Coding Standards
- Git guidelines and best practices
- How Islandora Code Gets Made
- Installing and configuring codesniff
- Windows support
- Committers call agendas & notes

Git Guidelines and Best Practices

In general we should follow the Git guidelines for the temp project since sensible. They go into a lot of detail about file endings which we don't as much at the moment. Specifically we should try and do the following...

Commit Messages

Messages should follow the guidelines described in detail at http://contrib.g00g1.com/git-commit-messages.html.

TUQUE issue ID in all cases (if applicable), followed by a brief description, line blank.

Issues should not be multi-line commit.

Example:

```
	git commit -m "Add feature A"
```

```
	git commit -m "Fix bug in user authentication"
```

command line tool you can add multi-line commit in line and continuing to type. E.g.,

```
	git commit -m "TUQUE-113 Cannot delete content of pipe that prevents deleting content from being delete"
```

```
	git commit -m "Fix bug in user authentication"
```

```
	git commit -m "Add feature A"
```

Table of Contents

- Variables repeated site
- Accessing the Fedora II
- Connecting to Fedora
- Accessing the repos
- Working with existing
- Loading an object
- Properties
Islandora Labs

Home for:

- Projects in development
- Vagrant builds
- Unofficial contributions
Community Contributions

WARC Solution Pack Islandora Checksum Checksum Checker Islandora PREMIS Islandora Solr Metadata Islandora Scholar Islandora Image Annotation Islandora XML Sitemaps Islandora BagIt Islandora Sync Islandora Pathauto Disk Image Solution Pack Entities Solution Pack Islandora PDF.js Islandora Video.js
Community Contributions

To contribute a module:

- Sign a CLA
- Propose the contribution to the Foundation (email or listserv)
- Follow the LSAP
- Consider being a CM
Releases

- Twice a year: April and October
- Managed by volunteers
- New modules and updates to 45+ existing ones.
- Bug fixes, improvements, and more.
Releases

First all volunteer release:
7.x-1.3 May 2014

Next Up:
7.x-1.6 October 30, 2015
# Release Teams

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The Future
Islandora and Fedora 4

- Ongoing project to integrate Fedora 4 and Islandora 7.x
  - Project Director Nick Ruest
  - Technical Lead Danny Lamb
  - Contributions from the community

- Proof of concept launched... an hour ago!
Foundation Goals

- Crowd-funded special projects
- Annual Conference & regional Camps
- Second hire: Tech Lead
- Grow membership
- Drupal 8
- Provide sandboxes for library schools
Questions?