

# Repository Architecture

General background information:

- The repository is based on [Fedora](#) and a suite of [Repository Tools](#).
- [Repository Hardware](#)
- Guidelines for [identifiers](#) and [filenames](#)
- Other [Repository Policies](#)

## Infrastructure process overview

### Ingest

1. All objects go through the [Ingest Tool Workflow](#).
2. Most content is ingested through a variant of the [Object Ingest Tool](#), although the old [Ingest Tool](#) is still useful for some content.
3. After data is ingested, it must be [indexed for searching](#).
4. Eventually, a [Validation System](#) will ensure that data entering the repository is consistent.

### Cataloging

- Cataloging is currently performed outside the repository on a per-collection basis.
- A new [Image Cataloging Application](#) is under development.

### Discovery and access

Basic object access:

- [PURL Resolution](#)
- [Search](#)
- [Repository Interoperability](#)

Most objects in the repository can be rendered in an appropriate web application. Depending on the type of content, this may be:

- [DLSearch](#), or a collection-specific application, like the [Slocum Puzzles](#) webapp.
- [Mets Navigator](#)

### Preservation

- Master files are stored in [HPSS](#)
- Periodically, a [Preservation Policies](#) will check the integrity of media files.

### Historical information

- Our initial list of [requirements](#).
- [Architectures we originally considered](#).