Implementing Controlled Digital Lending as a Core Library Service

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The Caltech context

Need to provide access to digitized teaching materials under principles of controlled digital access

None of our existing systems provided the appropriate functionality:

- Islandora (Digitized special collections assets)
- Invenio (Data repository)
- EPrints (Institutional repository)
- TIND ILS (Library catalog/ILS)
- Canvas, Ares (Course management, reserves)
Options

Continue existing ad hoc solution
- Using Box to host assets
- Password protect individual files
- Provide access through Canvas/class websites
- Dead end solution, no long term payoff

Seek commercial solution
- Not yet available
- Yet another siloed system

Use crisis as an incentive to build for the future
Some development priorities

Implementation of Universal Viewer and IIIF for presentation and navigation

Managed services (authentication)

Coordinated metadata services
  - distributed authority
  - consistency across repositories
  - regular alignment ("continuous migration" as a principle)

Integration with, and enhancement of existing services
Controlled Digital Lending

1. ensure that original works are acquired lawfully;
2. apply CDL only to works that are owned and not licensed;
3. limit the total number of copies in any format in circulation at any time to the number of physical copies the library lawfully owns (maintain an “owned to loaned” ratio);
4. lend each digital version only to a single user at a time just as a physical copy would be loaned;
5. limit the time period for each lend to one that is analogous to physical lending; and
6. use digital rights management to prevent wholesale copying and redistribution.

Digital Borrowing System (DIBS)

https://github.com/caltechlibrary/dibs

https://caltechlibrary.github.io/dibs/
CDL for Reserves and General Collections
- lawful acquisition
- owned, not licensed
- maintain “owned to loaned” ration
- one user at a time
- standardized loan periods
- prevent copying and distribution

Special Collections Virtual Reading Room
- donor agreement, or purchase
- owned, not licensed
- “owned to loaned” ratio not as relevant, but perhaps desirable
- multiple users ok (e.g. class access)
- long(er) access periods
- control copying and distribution
Repository management:
- ArchivesSpace
- Islandora
- Invenio

Library Services Platform:
- FOLIO

Services:
- DIBS
- CaltechPEOPLE
- FEEDS
- Publication Services

Access Services:
- EDS
- Springshare
- Websites

Digital asset storage:
- Access
- Preservation
Welcome to Caltech Library’s aggregated feeds

Overview

Caltech Library operates a number of repositories including repositories for thesis and dissertations, journal articles and publications and scientific data, models and software. This site seeks to bring that content together in a manner to encourage re-use in websites and projects.

Including feed content is a easy as using our Builder Widget and pasting the HTML/JavaScript into your web page.

Aggregations

Content is aggregated around

- people - A curated list of people of Caltech people with records associated in one of Caltech Library’s repositories
- groups - A curated list of organizations associated with articles, publications and data records in either CaltechAUTHORS, CaltechTHESIS and CaltechDATA repositories.
- recent - Recent additions in CaltechAUTHORS and CaltechDATA

Inside “groups” and “people” you’ll find an alphabetical listing of links to individual groups and people. Clicking through will bring you to that group or person’s profile page showing links to that various individuals feeds like articles, publications, data, models and software.

Update frequency

The feeds are update nightly Monday through Friday.

Samples, examples and formats

Feeds are available in a many formats indicated by their file extension. Supported formats are - HTML, HTML include, Markdown, BibTeX, JSON and RSS. See samples for details.
Atlas of Bacterial and Archaeal Cell Structure is an experiment in open-access textbook publishing, aiming to take full advantage of the digital medium to showcase state-of-the-art 3D scientific imaging. The book draws on the specialized expertise of the Jensen Laboratory at Caltech in state-of-the-art 3D cryogenic electron microscopy (Cryo-EM). In partnership with the Caltech Library, authors Grant Jensen and Catherine Oikonomou were able to develop an interactive publication that allowed them to offer much richer content, with movies to show the 3D data and flexible navigation options for readers to tailor their experience. The result is a guided tour of the microbial cell, using more than 150 movies of dozens of different species to illustrate the architectural features that allow cells to grow, divide, move, and thrive.
Repository management: ArchivesSpace, Islandora, Invenio

Digital asset storage: Access, Preservation

Library Services Platform: FOLIO

Access Services: EDS, Springshare Websites

Services: DIBS, CaltechPEOPLE, FEEDS, Publication Services
Links

This presentation, [https://www.library.caltech.edu/cni-spring-2021](https://www.library.caltech.edu/cni-spring-2021)
Caltech Library Digital Borrowing System, [https://caltechlibrary.github.io/dibs/](https://caltechlibrary.github.io/dibs/)
Caltech Library Aggregated Feeds, [https://feeds.library.caltech.edu/](https://feeds.library.caltech.edu/)

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