



blacklight

**Leveraging a Rich Discovery
Interface in Open Repository
Architectures**

**Tom Cramer
Chief Technology Strategist
Stanford University Libraries**



- **Overview**
- **Key Features & Capabilities**
- **Technology**
- **Blacklight & Repositories**
 - Including Hydra
- **Community**

Blacklight



Blacklight is an open source, "next generation" discovery application that works equally well for digital repositories as library catalogs.

In an open repository environment, it provides a ready-made, feature-rich interface for asset discovery & delivery, cleanly separated from the underlying repository or data store(s).

The Features You'd Expect



- Faceted search
- Relevance ranked results
- Personalization (bookmarks, tags)
- Export via Atom, RSS, SMS, Email, Zotero, etc.
- Streamlined UI
- And much more...

Plus Four Key Capabilities



1. Support for any kind of record or metadata
2. Object-specific behaviors
 - Books, Images, Music, Video, Manuscripts, Finding Aids, <any>
3. Tailored views for domain or discipline-specific materials
4. Easy to augment & over-ride with local modifications

SearchWorks

Search soccer

Advanced

Your Search: soccer Limited to: Publication Year: Last 3 years + Refine Pub Year: 2008 + Access: At the Library

« Previous | 1 – 20 of 91 results | Next » Sort by relevance v Normal Gallery List 20 v per page

Refine your search

Access

At the Library (91) [\[remove\]](#)
Online (1) [more](#)

Format

Book (82)
Video (8)
Computer File (1) [more](#)

Author

Publication Year

Last 10 years (91)
Last 3 years (91) [\[remove\]](#)
Refine Pub Year
2008 (91) [\[remove\]](#)
Last 50 years (91) [more](#)

Topic

Location

Call Number

Organization (as Author)

Region

Era

1. Soccer history : the missing link
Author/Creator: Gyan-Budu, Kojo.
Published: 2008
At the Library: Green » Stacks » GV944 .G4 G93 2008
Format: Book

2. FIFA soccer 09 [electronic resource].
Published: 2008
At the Library: Green » Media-Microtext (Lower Level) » ZMS 2320
Format: Computer File

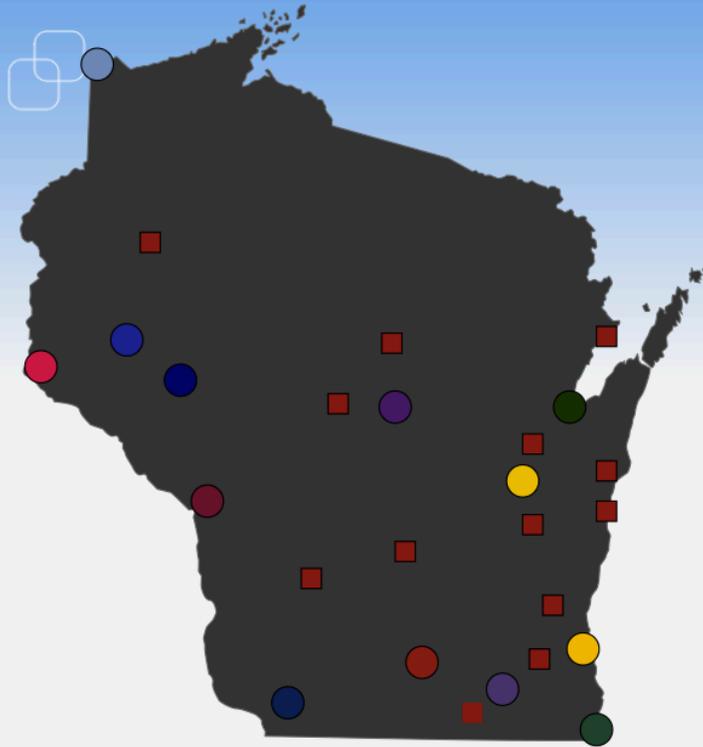
3. Fringe nations in world soccer
Published: 2008
At the Library: Green » Stacks » GV943.9 .S64 F75 2008
Format: Book

4. Soccer in a football world : the story of America's forgotten game
Author/Creator: Wangerin, David.
Published: 2008





Next Generation Catalog Stanford University - SearchWorks



UW - Forward

Over 8 million UW-System library items. Choose your school. Get searching.

UW Rock County

Enter - UW Colleges Library Catalog

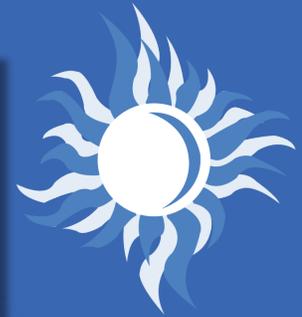
Two Year Campuses

- [UW-Baraboo/Sauk County](#)
- [UW-Barron County \(Rice Lake\)](#)
- [UW-Fond du Lac](#)
- [UW-Fox Valley \(Menasha\)](#)
- [UW-Manitowoc](#)
- [UW-Marathon County \(Wausau\)](#)
- [UW-Marinette](#)
- [UW-Marshfield/Wood County](#)
- [UW-Richland](#)
- [UW-Rock County \(Janesville\)](#)
- [UW-Sheboygan](#)
- [UW-Washington County \(West Bend\)](#)
- [UW-Waukesha](#)

Four Year Campuses

- [UW-Eau Claire](#)
- [UW-Green Bay](#)
- [UW-La Crosse](#)
- [UW-Madison](#)
- [UW-Milwaukee](#)
- [UW-Oshkosh](#)
- [UW-Parkside](#)
- [UW-Platteville](#)
- [UW-River Falls](#)
- [UW-Stevens Point](#)
- [UW-Stout](#)
- [UW-Superior](#)
- [UW-Whitewater](#)

Union Catalog University of Wisconsin – Forward



General View Music View [Ask a Librarian](#)

Keywords

You searched for:

No Keywords

- ✓ Subject > Photography x
- ✓ Digital Collection > Holsinger Studio Collection x
- ✓ Source > UVA Library Digital Repository x

Displaying items 1 - 20 of 10,681

Sort by Show per page

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ... | 534 | 535 | [Next >](#)

1. [Mrs. C.M. White; Holsinger Studio Collection, 1889 - 1939](#) [Add to Marked List](#)

Title Mrs. C.M. White
Series Holsinger Studio
Collection, 1889 - 1939
Creator Holsinger, Rufus W., 1866-1930

2. [Dr. J.S. Grasty; Holsinger Studio Collection, 1889 - 1939](#) [Add to Marked List](#)

Title Dr. J.S. Grasty
Series Holsinger Studio

BROWSE BY:

Library

Special Collections (10,681)

Location

Charlottesville (Va.) (10,681)

Format

Photographs (10,681)

Author

Holsinger, Rufus W. (9,780)
Holsinger, Ralph W. (901)

Subject

Holsinger Studio (Charlottesville, Va.) (10,681)
Photography (10,681)
Portraits (5,626)

Fedora Front End + NGC University of Virginia - Virgo



[Back to Search](#)

You searched for:

No Keywords

✓ Availability > NRAO Library

Showing 2 of 391 items from your search. [Start over](#)

[< Previous](#) | [Next >](#)

**A survey of compact planetary nebulae at radio wavelengths /
Aaquist, Orla Boje**

Title: A survey of compact planetary nebulae at radio wavelengths
Author: Aaquist, Orla Boje
Institution: University of Calgary (Canada)
Year: 1990
Instrument(s): VLA
Availability: NRAO Library
ADS Bibcode: 1990PhDT.....6A ([view in ADS](#))
[ABSTRACT](#)
[CITATIONS](#)
[REFCIT](#)
[AR](#)

Notes: Advisor: Kwok, Sun. ISBN: 0315619503

**Scientific Papers Repository
National Radio Astronomy Observatory**

HISTORICAL STATE

history in red and white

[Home](#) [Browse](#) [About](#)

 [Chat with us](#)

Limit your search

 Type

Collection

- [Baseball at NCSU \(exhibition\) \(43\)](#)
- [Edward T. Funkhouser Photographs \(2,664\)](#)
- [Green 'N' Growing: The History of Home Demonstration and 4-H Youth Development in North Carolina \(3,911\)](#)
- [Living Off the Land: Tobacco and Crop Science History in North Carolina, 1850-1950 \(717\)](#)
- [University Archives Photograph Collection \(18,864\) \[remove\]](#)

 Decade

 Subject

You searched for:

No Keywords. Use the search box above to add a keyword search.

 Collection > University Archives Photograph Collection

Displaying items 1 - 20 of 18,864

 « Previous **1** 2 3 4 5 6 7 8 9 ... 943 944 Next »

[Claimings from students at the tunnel "The Wall."](#)

Date: [1991/1992](#)
 Collection: [University Archives Photographs](#)
 Subjects: [Facilities](#) | [Graffiti](#) | [North Carolina State University](#) | [Tunnels](#)


[Quick View](#)

[Entrance to Department of Horticulture, Kilgore Hall, North Carolina State College](#)

Date: [1954](#)
 Collection: [University Archives Photographs](#)
 Subjects: [Buildings](#) | [Horticulture](#) | [North Carolina State University](#) | [Universities and colleges](#)


[Quick View](#)


Image & Special Collections

North Carolina State University

BROWSE:

choose category

[Browse our Series and Collections >](#)

SEARCH:

big bird

NARROW:

TOPIC:

- Vietnam (5)
- Vietnam (Democratic Republic) (5)
- Mặt trận dân tộc giải phóng miền nam Việt Nam (4)
- United States--History--1945- (4)
- Vietnam War, 1961-1975--Personal narratives (4)
- United States--Politics and government (3)
- Vietnam (Republic) (3)
- Vietnam War, 1961-1975 (3)
- Vietnam War, 1961-1975--Personal narratives, American (3)
- Vietnam--History--1945-1975 (3) [> more \(90\)](#)

PEOPLE:

- Acheson, Dean, 1893-1971 (2)
- Clifford, Clark M., 1906-1998 (2)
- Johnson, Lady Bird, 1912-2007 (2)
- Johnson, Lyndon B. (Lyndon Baines), 1908-1973 (2)
- McPherson, Harry (2)
- Murphy, Robert D. (Robert Daniel), 1894-1978 (2)
- Roosevelt, Franklin D. (Franklin Delano), 1882-1945 (2)
- Rostow, W. W. (Walt Whitman), 1916- (2)
- Buckley, Dean, 1899-1964 (2)

View as:

List

Gallery

7 results for big bird

select all SAVE SELECTED RECORDS SAVE THIS SEARCH

Show 10 per page



Interview with Clark M. Clifford, 1981



Interview with Christian, George, 1981



Interview with Frank (Fred) Hickey, 1981



Interview with Hoang Phu Ngoc Tuong, 1982



Interview with Tuu Ky, 1981



Interview with Denis Healey, 1986 [Part 1 of 3]



Interview with Sok Sarren, 1982



Video Repository

WGBH – Open Vault



Home About Partners News Events Contact Us

AgNIC Agriculture Network Information Center *An Information Partnership*



Search
banana in All Fields search start over
340 results sorted by
relevance

Limit your search « Previous 1 2 3 4 5 6 7 8 9 ... 16 17 Next »

Subject

- Asimina triloba (1)
- Carya (1)
- Castanea (1)
- Corylus (1)
- Diospyros kaki (1)
- Diospyros virginiana (1)
- Hawaii (1)
- Juglans (1)
- Pandanus (1)
- Pinus (1)

Keyword

- banana (36)
- International Relations/Trade (28)
- Musa (26)
- Hawaii (20)
- Crop Production/Industries (19)
- bananas (17)
- Banana (15)

Displaying 1 - 20 of 340 matching records

Bananas, Cuba

Provider: Library of Congress Open Archive Initiative Repository 1
Description: Man standing in grove of banana trees.
Keywords: Banana plants--Cuba--1910-1920.

Bunchy Top Disease of Bananas

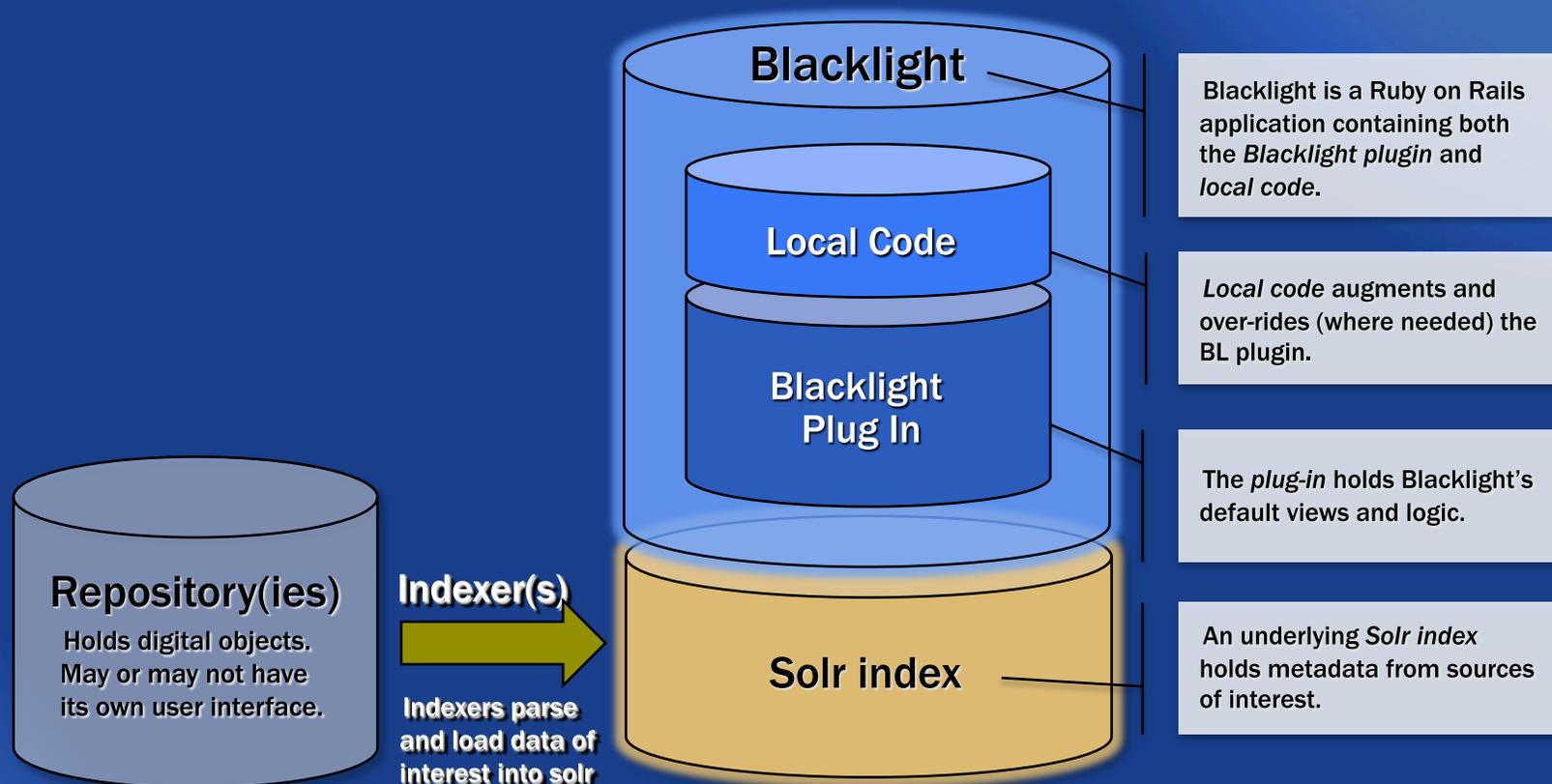
Provider: ScholarSpace at University of Hawaii at Manoa
Description: Short publication describing symptoms and control of banana bunchy top disease.
Creator: Ferreira, Stephen ATrujillo, Eduardo EOgata, Desmond Y
Keywords: Banana bunchy top virus , bananas , Musa

Banana Moth as a Pest of Coffee

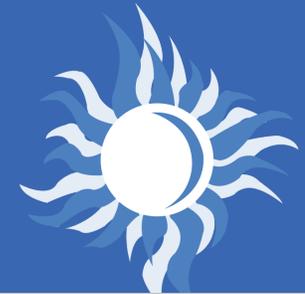
Scientific Papers Index

US Department of Agriculture - AgNIC

Technology Stack



Got Solr?



Solr Admin (dmss)



sulwebappdev1.stanford.edu:8100

cwd=/home/dsgprod/app-solr/apache-tomcat-5.5.26 SolrHome=/opt/home/dsgprod/app-solr/work/dmss_solr/

Solr

[\[SCHEMA\]](#) [\[CONFIG\]](#) [\[ANALYSIS\]](#) [\[SCHEMA BROWSER\]](#)
[\[STATISTICS\]](#) [\[INFO\]](#) [\[DISTRIBUTION\]](#) [\[PING\]](#) [\[LOGGING\]](#)

App server:

[\[JAVA PROPERTIES\]](#) [\[THREAD DUMP\]](#)

Make a Query

[\[FULL INTERFACE\]](#)

Query String:

solr

Assistance

[\[DOCUMENTATION\]](#) [\[ISSUE TRACKER\]](#) [\[SEND EMAIL\]](#)
[\[SOLR QUERY SYNTAX\]](#)

Current Time: Mon Dec 14 11:44:46 PST 2009

Server Start At: Thu Oct 22 13:48:34 PDT 2009

Digital Medieval Manuscripts

Naked solr index without the Blacklight frontend.

saint in **All Fields**

Limit your search

- Collection
 - [Parker Medieval Manuscripts \(86\)](#)
 - [Swiss Medieval Manuscripts \(58\)](#)
 - [Roman de la Rose Digital Library \(5\)](#)
 - [Lund Medieval Manuscripts \(4\)](#)
 - [Goodspeed Manuscript Collection \(2\)](#)
 - [Oxford Medieval Manuscripts \(0\)](#)
- Institution
- Settlement
- Repository
 - [Parker Library \(86\)](#)
 - [Stiftsbibliothek \(26\)](#)
 - [Fondation Martin Bodmer \(19\)](#)
 - [Bibliothèque de Genève \(6\)](#)
 - [Lund University Library \(4\)](#)
 - [Kantonsbibliothek Appenzell Ausserrhoden \(3\)](#)
 - [Bibliothèque Sainte-Geneviève \(2\)](#)
 - [Bibliothèque cantonale jurassienne \(2\)](#)
 - [Special Collections Research Center \(2\)](#)
 - [Bibliothèque de l'Arsenal \(1\)](#)

You searched for:

✓ All Fields > saint

Displaying items 1 - 10 of 155

« Previous Next »

1 2 3 4 5 6 7 8 9 ... 15 16

Sort by **relevance**

Show **10** per page

1. [Paris, Bibliothèque Sainte-Geneviève, 1126](#)

Collection: [Roman de la Rose Digital Library](#)
Manuscript Identifier: 1126
Manuscript Title: [Roman de la Rose](#)
Origin Date: [14th century](#)
Origin Place: [France](#)
Material: [parchment](#)
Links: [Description](#) | [Images](#)

2. [Paris, Bibliothèque Sainte-Geneviève, 1127](#)

Collection: [Roman de la Rose Digital Library](#)
Manuscript Identifier: 1127
Manuscript Title: [Roman de la Rose](#)
Origin Date: [15th century](#)
Origin Place: [France](#)
Material: [paper](#)
Links: [Description](#) | [Images](#)

3. [St. Gallen, Stiftsbibliothek, Cod. Sang. 414](#)

Collection: [Swiss Medieval Manuscripts](#)
Manuscript Identifier: [Cod. Sang. 414](#)
Manuscript Title: [Bréviaire noté de Saint-Gall, du premier type, partie d'hiver](#)



Digital Medieval Manuscripts Stanford University – DMS Index



blacklight in **All Fields** [Login](#) | [Search History](#)

Limit your search

Collection Name
Stanford Geological Survey
(5,994) [remove]

Agreement

You searched for:

No Keywords

Collection Name > Stanford Geological Survey x

Displaying items **1 - 10** of **5,994**

« Previous Next » 1 2 3 4 5 6 7 8 9 ... 599 600

Sort by year Show 10 per page

1. [library_stanford_edu_0002791eb03511dd85da9f0f0ec291da](#)

Id: library_stanford_edu_0002791eb03511dd85da9f0f0ec291da
Collection Name: Stanford Geological Survey
Agreement: library_stanford_edu_40c917a33d8811ddae61e99f8d60e325
AltRecord Id: ckey_5416428_lunaobjid_541642802
Agent Name: SDR_INGEST_V1.7.040
Object Creation Date: 2008-10-26T21:55:01Z
Object Modification Date: 2008-11-11T21:09:17Z

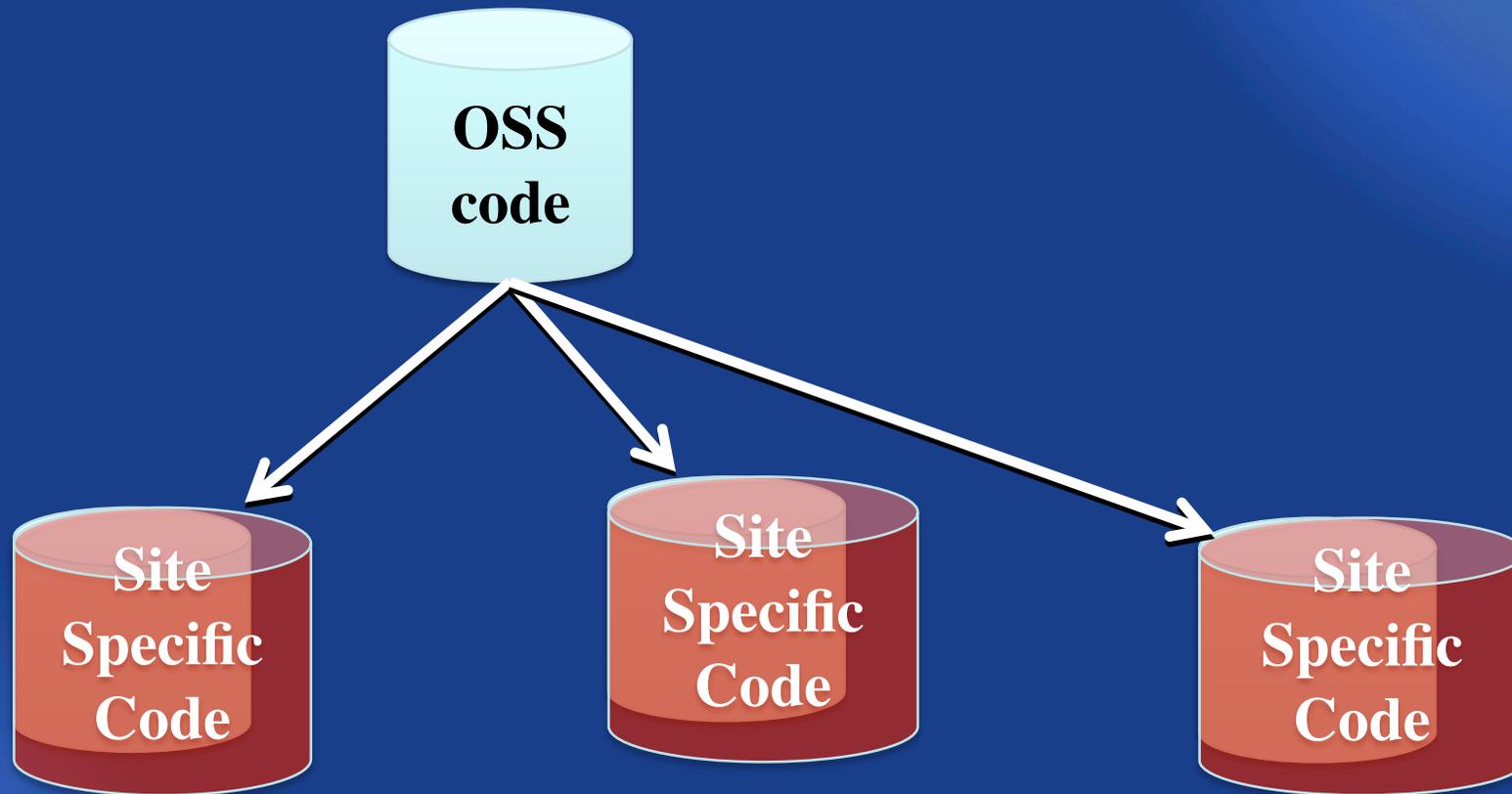
2. [library_stanford_edu_07ff5434b93211dda0f18bd98e33fd84](#)

Id: library_stanford_edu_07ff5434b93211dda0f18bd98e33fd84
Collection Name: Stanford Geological Survey
Agreement: library_stanford_edu_40c917a33d8811ddae61e99f8d60e325
AltRecord Id: ckey_5973659_lunaobjid_597365902
Agent Name: SDR_INGEST_V1.7.040
Object Creation Date: 2008-10-27T01:22:19Z
Object Modification Date: 2008-11-23T07:40:42Z

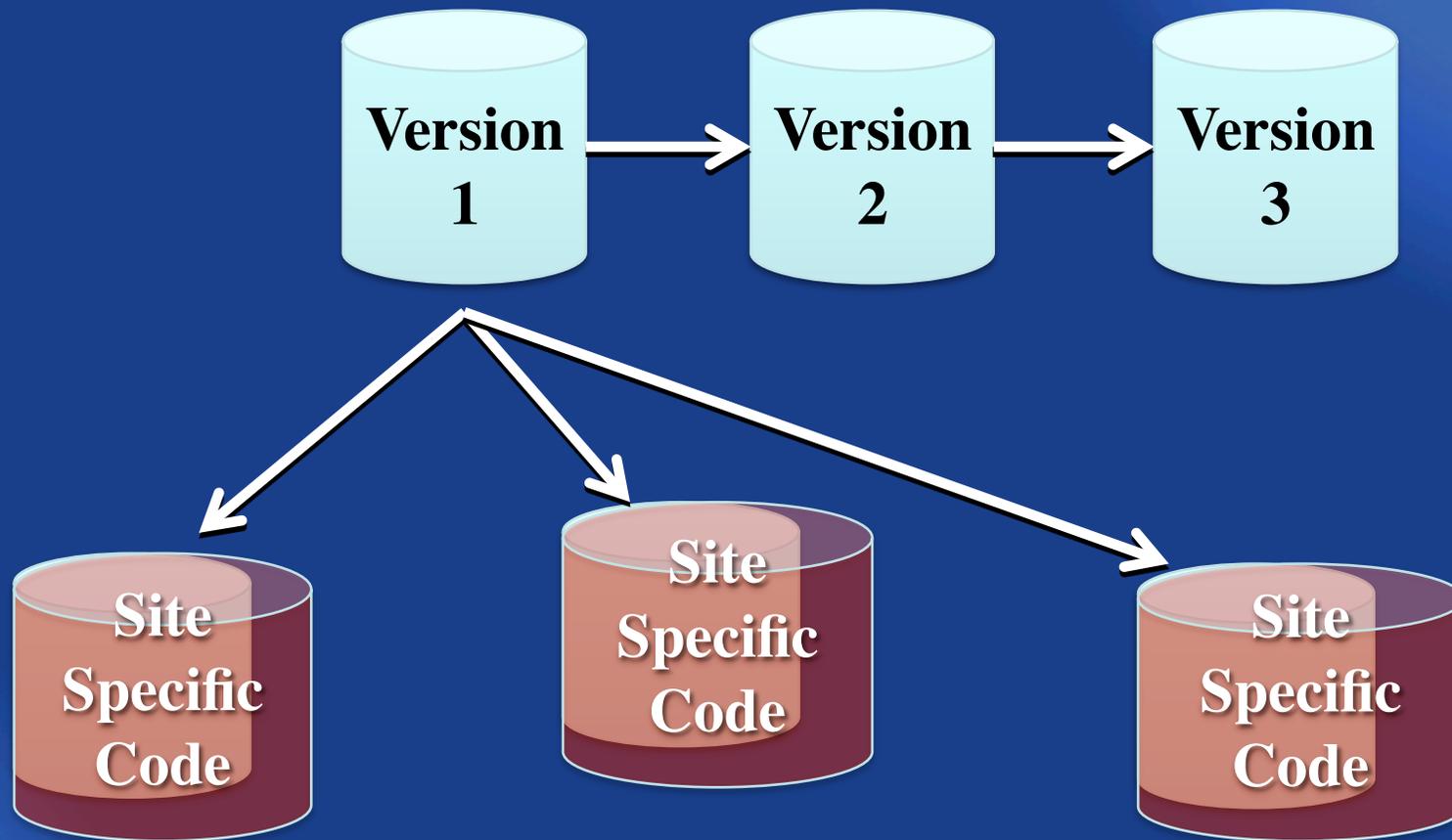
Repository Administrative UI

Stanford University – Stanford Digital Repository

The “Code Silo” Problem



The “Code Silo” Problem





Well-Structured Code

- **Blacklight 2.0 was a substantial refactoring to make the code portable**
 - **Core functions, common to all installations, located in a plugin**
 - **Local modifications made in the Ruby on Rails application container**
 - **Over-rides facilitate customization for local needs**
- **Vendor drops are straightforward**
- **GIT to facilitate branching and merging**



Easily Tailored

BL's modular code structure supports local customization and over-rides without the need for forking code.

- Look and Feel
- Layout
- Custom behaviors
- Augmented with widgets
- Basis for more extensive development

A Note on Ruby on Rails



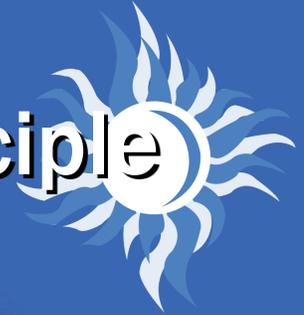
- **Rapid** application development for web applications: “Convention over configuration”
 - 10x productivity
- **Supportable**: MVC (Model-View-Controller) and Rails framework make code well-structured, predictable
- **Testable**: Rspec and Cucumber give powerful, automatable, testing tools
- **Learnable**: Stanford went from 1 to 8 Ruby savvy developers in one year (no new hires)
 - 1 week learning curve to basic proficiency

Test Coverage



- **Full test coverage is a core community principle**
 - Unit tests with Rspec
 - Acceptance tests with Cucumber
 - Continuous integration testing with Hudson
- **Tests ensure...**
 - Quality
 - Compatibility
 - Clarity of code and function
 - Confidence

Testing is a Core Community Principle



See http://projectblacklight.org/?page_id=2

- ***“All contributed code must have full test coverage before it is committed.”***
- ***“Tests must be committed at the same time code is.”***
- ***“All bugs and development tasks will be tracked in JIRA.”***
- ***“All code must be documented before it’s committed.”***

BL's Current Test Coverage is 90%



Name	Total lines	Lines of code	Total coverage
TOTAL	2073	1357	90.55%
app/controllers/application_controller.rb	59	51	96.61%
app/controllers/bookmarks_controller.rb	59	59	100.00%
app/controllers/catalog_controller.rb	200	137	96.00%
app/controllers/feedback_controller.rb	37	24	35.14%
app/controllers/saved_searches_controller.rb	44	34	79.55%
app/controllers/search_history_controller.rb	25	21	76.00%
app/controllers/user_sessions_controller.rb	43	20	100.00%
app/controllers/users_controller.rb	13	8	100.00%
app/helpers/application_helper.rb	354	246	90.96%
app/helpers/bookmarks_helper.rb	3	2	100.00%
app/helpers/catalog_helper.rb	44	29	90.91%
app/helpers/feedback_helper.rb	2	2	100.00%
app/helpers/saved_searches_helper.rb	2	2	100.00%

<http://hudson.projectblacklight.org/hudson/job/blacklight-plugin/99/rcov/>

Scalability: SearchWorks = known upper bound



SearchWorks Usage: April – December, 2009

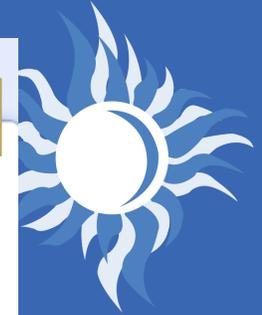


- SearchWorks currently has > 6 Million records
- Peak daily load is now > 50,000 visitors

Blacklight for Repositories



- Repository-agnostic, content-aware, feature-rich, turnkey, access interface
- Aggregate content from multiple repositories, link back to source systems
- Foundation for more extending to build more elaborate access systems
- Hydra: The “R” in CRUD
- Administrative UI



Catalog Music

All Fields Results per page 10 Search

Displaying items 1 - 10 of 576 for no searches in items with SOURCE UVa. Art Museum (Start over?)

Sort by Date Received

1 2 | 3 | 4 | 5 | 6

Get updates with RSS

1 Lucius Verus, A.D. 162

Mint Rome
Format Coin
Location The University of Virginia Art Museum
Accession 1989.19.14



2 Valentinian II, A.D. 388

Mint Trier
Format Coin
Location The University of Virginia Art Museum
Accession 1989.19.23



- Limit Search by...
- Format
 - Subject
 - Call number
 - Region
 - Source
 - Collection

Facets are tailored to numismatics

Note the "Source" facet is the UVa Art Museum tab.

Search results data fields are customized to content type

Object Specific Behaviors - Coins

University of Virginia - VirgoBeta



Search for student, advisor, title, department...

[Start over](#) | [Back to search results](#)

Actions

Submitted 2/22/2009 3:20pm

Rejected 2/24/2009 12:39pm
Margin spacing is incorrect. Please reformat so margins are 1" on all sides, then resubmit.
- John R. Doe

Resubmitted 2/26/2009 2:55pm

Next step

- [Reject](#) (return to student to resubmit)
- [Comment](#) (no change in status)
- [Verify](#) (sign off and send to library for final processing)

Your comment here...

#3 of 10 results for Degree: PhD, Status: Submitted

[« Prev](#) [Next »](#)

Name: [Shester, Geoffrey G.](#)
Degree: PhD
Major: School of Earth Sciences: Interdisciplinary Program in Environment and Resources (IPER)
Advisor: [Loague, Keith](#)
Dissertation Title: Sustainability in small-scale fisheries: An analysis of ecosystem impacts, fishing behavior, and spatial management using participatory research methods

Thesis or Dissertation (PDF)

Shester-Sustainability-in-small-scale-fisheries.pdf	1,060K	2/26/2009 2:51 pm
---------------------------------------------------------------------	--------	-------------------

Supplemental files

cover.jpg	High-res version of cover image	125K	2/26/2009 2:52 pm
video.avi	Video of interviews	2,325K	2/26/2009 2:52 pm
data.xls	Data for survey appendix B	325K	2/26/2009 2:52 pm
illustration.jpg	Full-size illustration from page 75	600K	2/26/2009 2:52 pm

Abstract

Anthropogenic impacts to ocean ecosystems have been well documented throughout the globe, highlighting commercial fishing as a primary threat to marine life populations and habitats. Small-scale commercial fishing operations provide more than half of the world's seafood, employ over 90% of all fishermen, and take place along a vast proportion of the world's coastline. Their local, decentralized nature poses unique challenges for research, data collection, and management, particularly in developing nations. As a result, a focus on large, industrial fisheries has discounted the potential impacts of small-scale fisheries, leading to an assumption that they are generally more sustainable. My research on two remote fishing cooperatives in Baja California Sur, Mexico asks to what extent these small-scale fisheries are sustainable, and in cases where significant ecological impacts do occur, I offer and compare several distinct conservation approaches. While engaging fishermen to participate directly in the data collection, I begin by conducting a series of studies that examine how small-scale fisheries interact with marine ecosystems. I quantitatively assess potential ecological effects including bycatch of non-target species and damage to seafloor habitats resulting from several common fishing practices and find that the type and magnitude of



Degree, School, Program, Auxiliary Files, Abstract and overall layout are all ETD-specific

Object Specific Behaviors – Electronic Theses Stanford University – ETD App



Green in All Fields Search

Limit your search

- ▶ Subject
- ▶ Author/Creator
- ▶ Genre

Did you mean to type screen ?

You searched for:

Keyword Green x

Displaying all 5 items [Start again](#)

Sort by relevance Show 10 per page

1. Content models in the Hydra Project

Title: Content models in the Hydra Project

Author/Creator: Green, Richard A

Genre: Examination paper

Subject: Hydra

Language: English



2. An investigation of the factors which influence the degree of patient involvement in the physiotherapeutic consultation

Title: An investigation of the factors which influence the degree of patient involvement in the physiotherapeutic consultation

Author/Creator: Green, Angela Jane

Genre: Thesis or Dissertation; PhD

Subject: Postgraduate Medical Institute; Physiotherapy



Repository Front End
University of Hull

The “R” in Repository Front End CRUD



Hydra is an effort that is developing and packaging an application framework to sit atop Fedora, and tailoring the use of this framework for specific institutional repository & digital library solutions.

- * Deposit
- * Manage / Edit Objects
- * Set Permissions / Access Levels
- * *Browse*
- * *Search*
- * *View Object*

Blacklight provides the search, browse & viewing capabilities

ETD Application

Search for student, advisor, title, department...

[Start over](#) | [\(Search/browse selections display here\)](#)

Browse ETD collection

Degree
[Masters](#) (5,505,751)
[PhD](#) (266,989)

School
[Business](#) (532,536)
[Earth Sciences](#) (836,431)
[Education](#) (532,536)
[Engineering](#) (5,505,751)
[Humanities & Sciences](#)
[Law](#) (532,536)
[Medicine](#) (590,959)

Status
[Submitted](#) (6,431)
[Rejected](#) (859)
[Verified](#) (2,536)
[Available](#) (32,536)
[Embargoed](#) (532)
[Withdrawn](#) (36)

1 - 10 of 12345 results sorted by author

Author/Title	Degree	Advisor
Alter, Susan Elizabeth Demographic and evolutionary processes in baleen whales inferred from ancient and modern DNA	PhD	Palumbi, Ste
Plumlee, Megan H Occurrence and photochemical fate of emerging contaminants: Nitrosamines and perfluorochemicals	Masters	Daily, Gretch
Shester, Geoffrey G Sustainability in small-scale fisheries: An analysis of ecosystem impacts, fishing behavior, and spatial management using participatory research methods	PhD	Loague, Keit
Brosi, Berry Justice Bee communities, pollination, and landscape context in tropical countryside	PhD	Daily, Gretch
Carr, Adrienne Elizabeth Physics-based simulations of hydrologic-response and cumulative watershed effects	PhD	Loague, Keit
Ward, Gillian Statistics in ecological modeling: presence-only data and boosted MARS	Masters	Hastie, Trev
Jones, Nicole Louise The role of wind-waves and currents on vertical mixing in shallow water bodies; Implications for phytoplankton distribution	Masters	Monismith, S Thompson, J
Cornwell, Will Causes and consequences of functional trait diversity: Plant community assembly and leaf decomposition	Masters	Ackerly, David D.
Weng, Kexin Chi-Ming	PhD	Block, Barbara A

Search & Browse powered by Blacklight

Logout

Search for student, advisor, title, department...

[Start over](#) | [Back to search results](#)

Actions

Submitted 2/22/2009 3:20pm

Rejected 2/24/2009 12:39pm
 Margin spacing is incorrect. Please reformat so margins are 1" on all sides, then resubmit.
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Your comment here...

#3 of 10 results for Degree: PhD, Status: Submitted

[< Prev](#) [Next >](#)

Name: [Shester, Geoffrey G.](#)
 Degree: PhD
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 Advisor: [Loague, Keith](#)
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Thesis or Dissertation (PDF)

Shester-Sustainability-in-small-scale-fisheries.pdf	1,060K	2/26/2009 2:51 pm
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Supplemental files

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data.xls	Data for survey appendix B	325K	2/26/2009 2:52 pm
illustration.jpg	Full-size illustration from page 75	600K	2/26/2009 2:52 pm

Abstract

Anthropogenic impacts to ocean ecosystems have been well documented throughout the globe, highlighting commercial fishing as a primary threat to marine life populations and habitats. Small-scale commercial fishing operations provide more than half of the world's seafood, employ over 90% of all fishermen, and take place along a vast proportion of the world's coastline. Their local, decentralized nature poses unique challenges for research, data collection, and management, particularly in developing nations. As a result, a focus on large, industrial fisheries has discounted the potential impacts of small-scale fisheries, leading to an assumption that they are generally more sustainable. My research on two remote fishing cooperatives in Baja California Sur, Mexico asks to what extent these small-scale fisheries are sustainable, and in cases where significant ecological impacts do occur, I offer and compare several distinct conservation approaches. While engaging fishermen to participate directly in the data collection, I begin by conducting a series of studies that examine how small-scale fisheries interact with marine ecosystems. I quantitatively assess potential ecological effects including bycatch of non-target species and damage to sea/oor habitats resulting from several common fishing practices and find that the type and magnitude of impacts are significantly different across small-scale fishing gears. Set gillnets have higher bycatch and habitat impacts than other fishing gears, representing a major priority for small-scale fishery conservation. I also analyze fine-scale fishing behavior in the lobster fishery to help explain why some fishermen are more successful than others and how marine habitat characteristics and resource distribution influence their gear placement strategies. Observable trap movement behaviors on a limited number of fishing trips

ETD-specific viewing behavior

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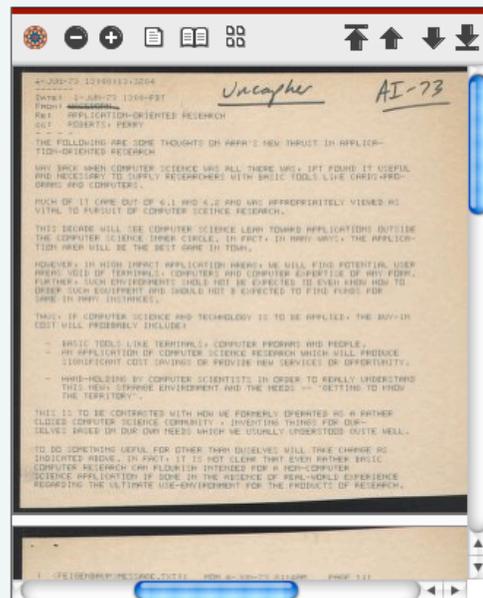
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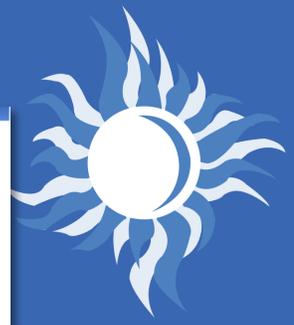
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Repository Interface

Hydra Project – Hydrangea

Multi-Institutional Project



- Originated at UVa in 2007 as a research project
 - Moved to production as “Virgo Beta” in 2008
- Stanford adopted in Jan 2009
 - Deployed SearchWorks on Blacklight in Aug '09
- Currently dozens of installations
- ~ 10 committers from a half dozen institutions



Community

The Blacklight Strategic Advisory Group gives committed institutions the forum to coordinate, advise and support development. Current members:

- Columbia University
- Johns Hopkins University
- Stanford University
- University of Hull
- University of Virginia
- University of Wisconsin
- WGBH

Conclusion



- Rich search & viewing application
- Works for any type of digital asset
- Runs out of the box
- Separates application from data store
- Aggregate records from multiple sources into one discovery layer
- Easily customized views
- Vibrant open source project

More



- <http://projectblacklight.org>
- GitHub
- blacklight-development@googlegroups.com
- Minneapolis Camp (October)
- DLF Fall Forum, Palo Alto, CA (Nov 1-3)