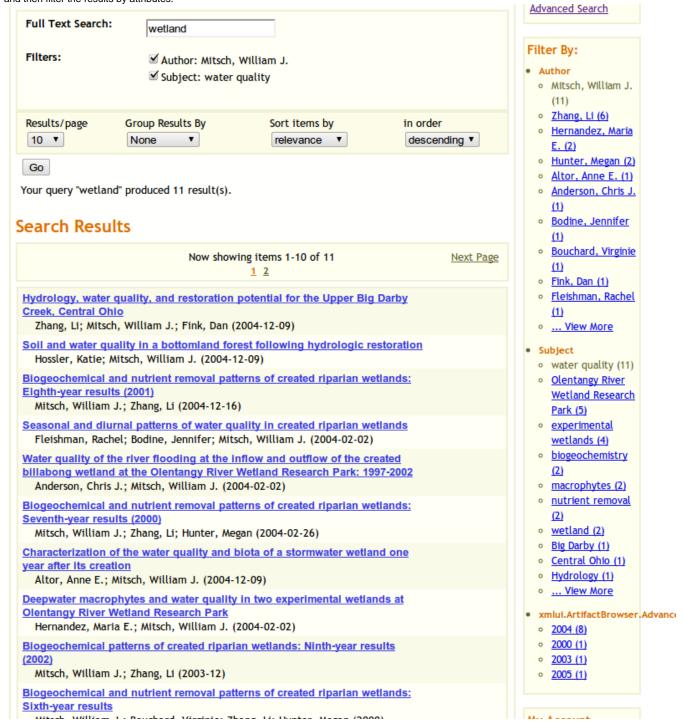# DSpace Discovery HowTo

Howto: Use DSpace Discovery
The Discovery Module enables your repository to have faceted searching.
Thus a user can filter what they are looking for by grouping entries into a facet, and drill down to find the content they are interested in.
So instead of user searching: [wetland + "dc.author=Mitsch, William J" + dc.subject="water quality"], they can instead do their initial search, [wetland], and then filter the results by attributes.

Advanced Search

Full Text Search: wetland

Filters:
☑ Author: Mitsch, William J.
☑ Subject: water quality

Results/page	Group Results By	Sort items by	in order
10 ▾	None ▾	relevance ▾	descending ▾

Go

Your query "wetland" produced 11 result(s).

Search Results

Now showing items 1-10 of 11   Next Page
1 2

Hydrology, water quality, and restoration potential for the Upper Big Darby Creek, Central Ohio
Zhang, Li; Mitsch, William J.; Fink, Dan (2004-12-09)

Soil and water quality in a bottomland forest following hydrologic restoration
Hossler, Katie; Mitsch, William J. (2004-12-09)

Biogeochemical and nutrient removal patterns of created riparian wetlands: Eighth-year results (2001)
Mitsch, William J.; Zhang, Li (2004-12-16)

Seasonal and diurnal patterns of water quality in created riparian wetlands
Fleishman, Rachel; Bodine, Jennifer; Mitsch, William J. (2004-02-02)

Water quality of the river flooding at the inflow and outflow of the created billabong wetland at the Olentangy River Wetland Research Park: 1997-2002
Anderson, Chris J.; Mitsch, William J. (2004-02-02)

Biogeochemical and nutrient removal patterns of created riparian wetlands: Seventh-year results (2000)
Mitsch, William J.; Zhang, Li; Hunter, Megan (2004-02-26)

Characterization of the water quality and biota of a stormwater wetland one year after its creation
Altor, Anne E.; Mitsch, William J. (2004-12-09)

Deepwater macrophytes and water quality in two experimental wetlands at Olentangy River Wetland Research Park
Hernandez, Maria E.; Mitsch, William J. (2004-02-02)

Biogeochemical patterns of created riparian wetlands: Ninth-year results (2002)
Mitsch, William J.; Zhang, Li (2003-12)

Biogeochemical and nutrient removal patterns of created riparian wetlands: Sixth-year results
Mitsch, William J.; Bouchard, Virginie; Zhang, Li; Hunter, Megan (2000)

Filter By:

- **Author**
  - Mitsch, William J. (11)
  - Zhang, Li (6)
  - Hernandez, Maria E. (2)
  - Hunter, Megan (2)
  - Altor, Anne E. (1)
  - Anderson, Chris J. (1)
  - Bodine, Jennifer (1)
  - Bouchard, Virginie (1)
  - Fink, Dan (1)
  - Fleishman, Rachel (1)
  - ... View More

- **Subject**
  - water quality (11)
  - Olentangy River Wetland Research Park (5)
  - experimental wetlands (4)
  - biogeochemistry (2)
  - macrophytes (2)
  - nutrient removal (2)
  - wetland (2)
  - Big Darby (1)
  - Central Ohio (1)
  - Hydrology (1)
  - ... View More

- **xmlui.ArtifactBrowser.Advance**
  - 2004 (8)
  - 2000 (1)
  - 2003 (1)
  - 2005 (1)

My Account

A website like Amazon, might do this to help you select a digital camera. You can reduce the results by price range, features, megapixels, manufacturer, etc.
The further the DSpace Discovery module is developed, the more useful that browsing can be to the researcher looking for items in your collections.

Checkout the projects from source (revision numbers are from revision last tested)

```
mkdir /path/to/project/discovery
cd discovery
svn checkout http://scm.dspace.org/svn/repo/dspace/trunk/ dspace-trunk -r 4961
svn checkout http://scm.dspace.org/svn/repo/modules/dspace-discovery/trunk/ dspace-discovery -r 4846
```

Reference
If you want see Discovery in action and try it out live, the Dryad Repository has discovery instead of artifact browse. You can also browse their Google Code which has the source of their customizations.

Overview
Have both projects checked out to the same root projects folder. You will not have to modify dspace-discovery at all, but the patch will enable the dspace-trunk to use some features of dspace services, and include other libraries such as org.apache.solr that are needed.
The discovery module essentially adds an additional core to solr. Existing was statistics, the new core is search.

Obtain the updated patch

To patch:

```
cd /path/to/project/discovery/dspace-trunk/dspace
patch -p1 < /path/to/dspace-discovery-update3.patch
```

If you name discovery-trunk anything other than that, you will have to modify dspace-trunk/dspace/pom.xml accordingly.
Then the regular rebuild process applies.

Once you've restarted tomcat, and SOLR is up and running, you'll need to index your content.
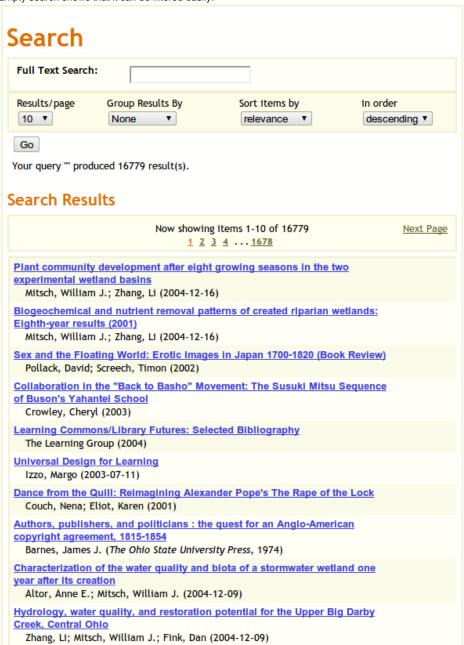
```
/dspace/bin/dspace update-discovery-index
```

- or -

```
/dspace/bin/dspace dsrun org.dspace.discovery.IndexClient
```

Screenshots
Empty search shows that it can be filtered easily.

Search

Full Text Search: [   ]

Results/page	Group Results By	Sort items by	in order
10 ▾	None ▾	relevance ▾	descending ▾

[Go]

Your query "" produced 16779 result(s).

Search Results

Now showing items 1-10 of 16779   Next Page
1 2 3 4 . . . 1678

Plant community development after eight growing seasons in the two experimental wetland basins
Mitsch, William J.; Zhang, Li (2004-12-16)

Biogeochemical and nutrient removal patterns of created riparian wetlands: Eighth-year results (2001)
Mitsch, William J.; Zhang, Li (2004-12-16)

Sex and the Floating World: Erotic Images in Japan 1700-1820 (Book Review)
Pollack, David; Screech, Timon (2002)

Collaboration in the "Back to Basho" Movement: The Susuki Mitsu Sequence of Buson's Yahantei School
Crowley, Cheryl (2003)

Learning Commons/Library Futures: Selected Bibliography
The Learning Group (2004)

Universal Design for Learning
Izzo, Margo (2003-07-11)

Dance from the Quill: Reimagining Alexander Pope's The Rape of the Lock
Couch, Nena; Eliot, Karen (2001)

Authors, publishers, and politicians : the quest for an Anglo-American copyright agreement, 1815-1854
Barnes, James J. (*The Ohio State University Press*, 1974)

Characterization of the water quality and biota of a stormwater wetland one year after its creation
Altor, Anne E.; Mitsch, William J. (2004-12-09)

Hydrology, water quality, and restoration potential for the Upper Big Darby Creek, Central Ohio
Zhang, Li; Mitsch, William J.; Fink, Dan (2004-12-09)

Search DSpace

[   ] [Go]

Advanced Search

Filter By:

- **Author**
  - Ohio State University. Libraries (425)
  - Herrick, John H. (238)
  - Schaffner, John H. (132)
  - Mitsch, William J. (128)
  - DeLong, Dwight M. (100)
  - Miller, Terry A. (100)
  - Osborn, Herbert (45)
  - Zhang, Li (45)
  - Zwier, Timothy S. (45)
  - Bernath, P. F. (44)
  - ... View More

- **Subject**
  - expedition members (crew and personnel) (1387)
  - animals (750)
  - equipment and supplies (642)
  - dogs (555)
  - Ohio State University -- Libraries -- Newsletters (416)
  - ships or boats (411)
  - land and water formations (360)
  - ice (348)
  - airplanes (307)
  - photographs (307)
  - ... View More

- **xmlui.ArtifactBrowser.AdvancedSearch.**
  - 2007 (3673)
  - 2006 (641)
  - 2005 (489)
  - 1995 (442)
  - 2009 (427)
  - 2004 (396)
  - 1982 (348)
  - 2008 (339)
  - 2002 (285)