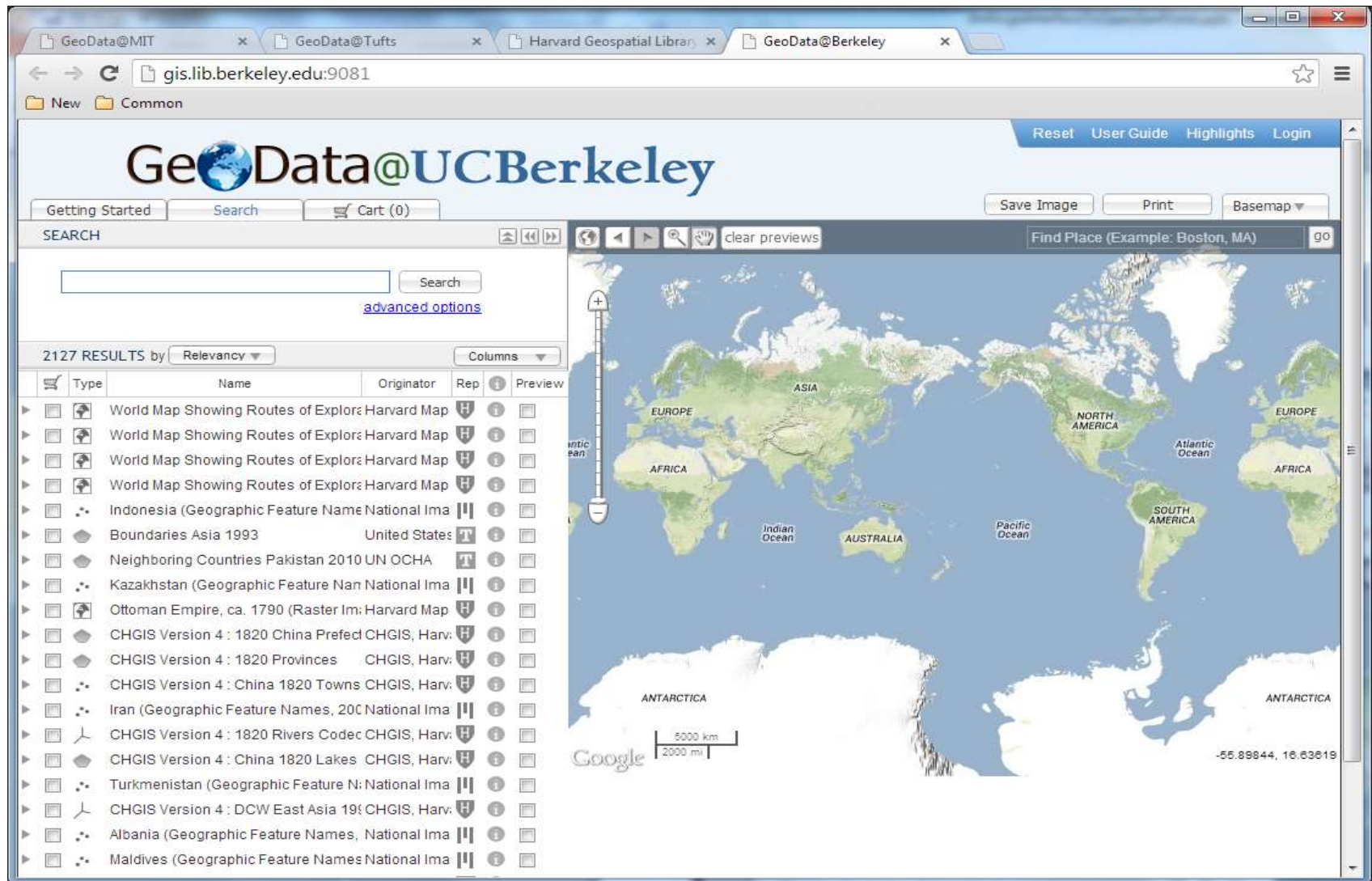


Integrating OpenGeoPortal Searches Within Arcgis

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We are accustomed to see Open GeoPortal look like this



Are there other ways to look at this?

- Think of OGP as two connected pieces
 - Searchable SOLR index
 - Web interface for searching
- Can we search SOLR in other ways?
 - SOLR search is URL based
 - Use VB.Net tools to construct URL, submit and read as XML
 - Package as Arcgis DLL

Arcgis: just another OGP interface

MIT Geodata Repository Search Tool - Search For Geospatial Data

Place ☐ Check this box to limit your search results to the area in your ArcMap window. Checking this box with no search terms will result in a spatial search with no keyword search.

All of these terms ▼

Keywords

All of these terms ▼

2106 results

Title	Catalog Name	GeometryType
Afghanistan (Geographic Feature Names, 2003)	AF_A8GNS_2003	Point
Alaska (Rivers, 2010)	US_AK_P53RIVERS_2010	Line
Albania (Districts, 2008)	AL_F7DISTRICTS_2008	Polygon
Albania (Geographic Feature Names, 2003)	AL_A8GNS_2003	Point
Albania (Municipalities, 2008)	AL_F7MUNICIPALITIES_2008	Polygon
Algeria (Geographic Feature Names, 2003)	AG_A8GNS_2003	Point
Andorra (Geographic Feature Names, 2003)	AN_A8GNS_2003	Point
Andorra (Roads, 2009)	AN_P2ROADS_2009	Line
Angola (Comunes, 2005)	AO_F7COMUNES_2005	Polygon
Angola (Geographic Feature Names, 2003)	AO_A8GNS_2003	Point
Angola (Municipalities, 2005)	AO_F7MUNICIPALITIES_2005	Polygon
Angola (Provinces, 2005)	AO_F7PROVINCES_2005	Polygon
Angola (Rivers, 2005)	AO_P53RIVERS_2005	Line
Angola (Roads, 2005)	AO_P2ROADS_2005	Line
Anguilla (Geographic Feature Names, 2003)	AV_A8GNS_2003	Point
Antigua and Barbuda (Geographic Feature Names, 2003)	AC_A8GNS_2003	Point
Argentina (Counties, 1995)	AR_F7COUNTIES_1995	Polygon
Argentina (Geographic Feature Names, 2003)	AR_A8GNS_2003	Point
Ameria (2-Digit Postal Code Areas, 2009)	AM_P8POSTCODE2DIG_2009	Polygon

How does the search work?

- Arcgis interacts with SOLR:
 - Submit URL
 - Read and parse response
 - Loads results in VB.Net scrollable form
 - User adds layer from SDE/Oracle based on LayerID field

What does the interface do now

- Searches MIT repository for point, line, polygon, and raster layers
- Display layers in Arcmap
- Opens web browser with FGDC metadata records
- Parses saved searches (from OGP share button) and adds one or more saved layers from MIT only

<http://goo.gl/Fk6DP>

[http://arrowsmith.mit.edu/mitogp/openGeoPortalHome.jsp?layer%5B%5D=MIT.SDE DATA.US MA CAMBRIDGE P22BUSSHL 2010&minX=-315&minY=-85.051128779807&maxX=315&maxY=85.051128779807](http://arrowsmith.mit.edu/mitogp/openGeoPortalHome.jsp?layer%5B%5D=MIT.SDE+DATA.US+MA+CAMBRIDGE+P22BUSSHL+2010&minX=-315&minY=-85.051128779807&maxX=315&maxY=85.051128779807)

How is this used at MIT?

- Arcgis interface (DLL) is available by download from IS&T when downloading Arcgis for install
 - Self extracting file, removes previous versions
 - Checks for new versions and alerts users
- Available on machines in GIS Lab, Libraries instruction room, DUSP lab, and the digital classroom
- 50% of hits are from Arcgis interface, 50% are from web interface

What will the extension do in the future

- Search unlicensed data at other repositories
- Search for maps in the MIT collection and display bounding box
- Add layers from other repositories to Arcmap (via WFS to Feature Class tools)