Basic Search

> ⚠ **Deprecation of "LITE" APIs**
>
> As of release 3.4-RC1 of Fedora, the "LITE" APIs are deprecated and will be removed in a future release. You are encouraged to migrate any existing code that uses the `http://localhost:8080/fedora/search` endpoint to use the `http://localhost:8080/fedora/objects` endpoint instead. This is the search endpoint from the new REST API.

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Introduction

The Search Interface provides a mechanism for searching and browsing the Fedora repository. Upon ingestion, metadata from the Fedora System Metadata section and the Dublin Core (DC) Metadata section of the object are indexed in a relational database, and may be searched using this interface. The DC Metadata section is an optional Implementor-Defined XML Metadata datastream in the object, where the *Datastream ID* is DC, and the XML conforms to the schema at http://www.openarchives.org/OAI/2.0/oai_dc.xsd. If a Dublin Core metadata datastream is not provided, Fedora will construct a minimal DC datastream consisting of the elements dc:title and dc:identifier. The value for dc:title will be obtained from the object's label (if present in the object) and the value for dc:identifier will be assigned to the object's persistent identifier or PID.

The search interface provides both simple and advanced searching via a web form included with the repository software. All queries are case insensitive. Simple Search enables queries of words and phrases occurring anywhere in than object's indexed metadata fields. Advanced Search enables fielded searching across any combination of metadata elements using string comparison operators (= and ~) for string fields, and value comparison operators (=, >, , <,) for date fields (dc:date fields may be treated as both). The wildcards, * and ? may be used in any string-based query.
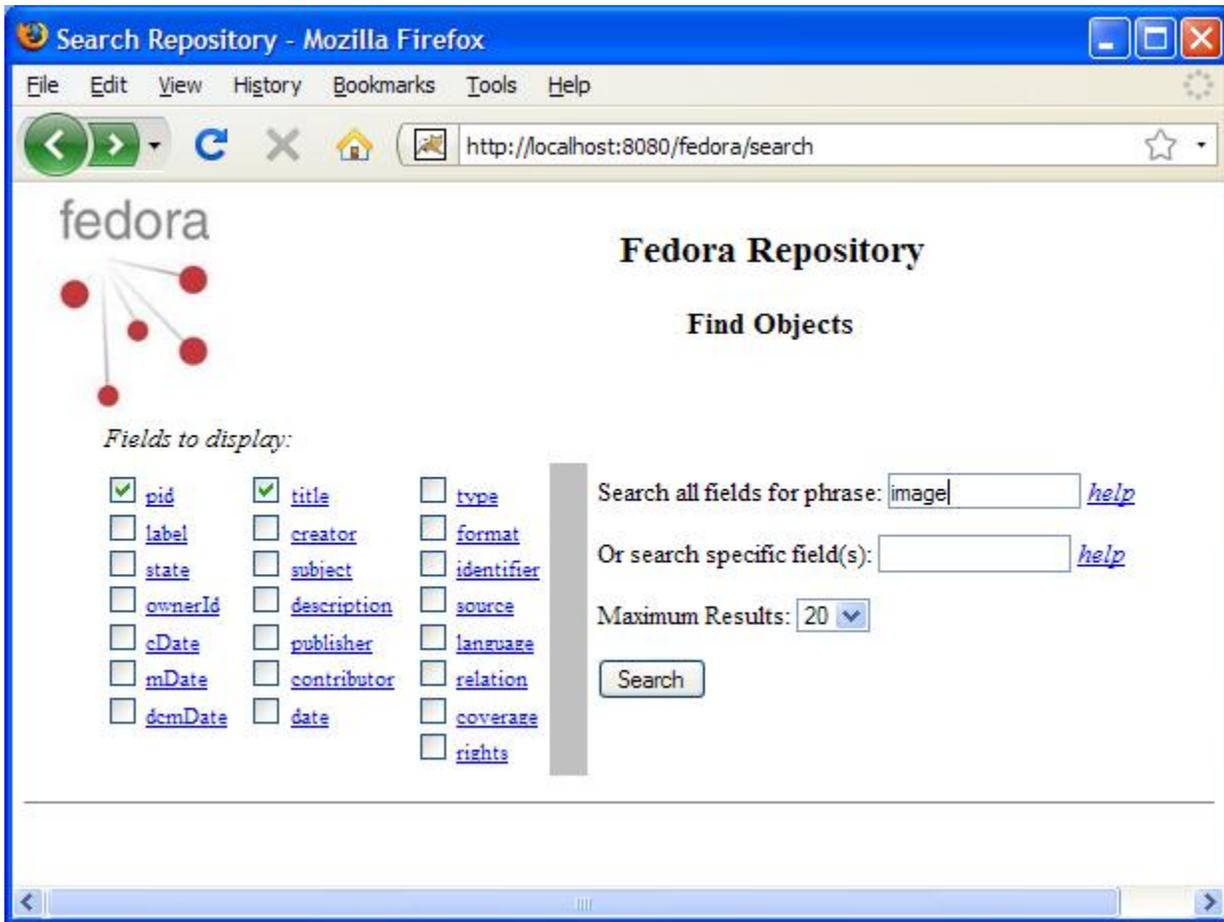
Search Interface Syntax

The Fedora Search Interface is implemented as a java servlet and can be accessed using the following syntax:

```
http://hostname:port/fedora/search
```

- **hostname** – required hostname of the Fedora server
- **port** – required port number on which the Fedora server is running
- **fedora** – a required part of the Fedora servlet path
- **search** – a required part of the Fedora servlet path

Search Interface Web Form

An example of the Search Interface Web Form is displayed below. To perform a search, check the box next to the fields that you would like returned in the search results, enter your search query in either the simple search or advanced search text box, and click the submit button. In the example, the label fields of *pid* and *label* are checked and the query is to search for the word "image" in any of the indexed fields.
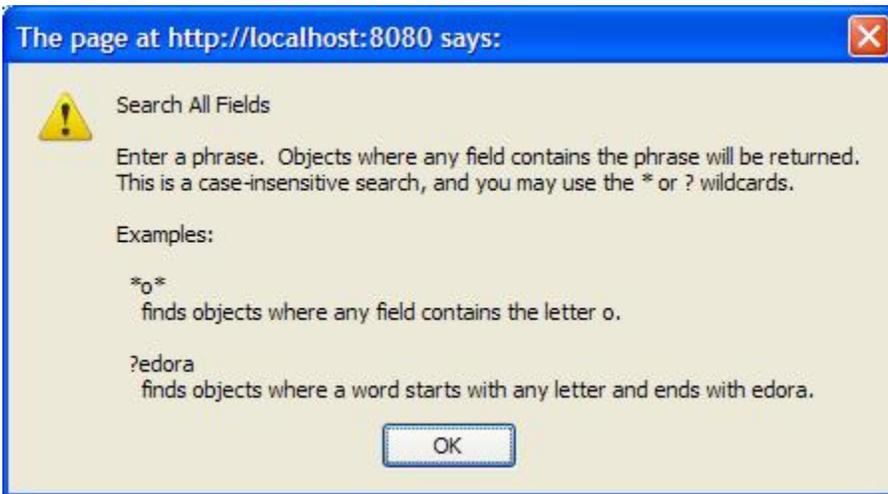
Search Results

The results of the sample search are displayed below. Note that the entries returned for the PID field are hyperlinks. Clicking on the PID hyperlink will invoke the Default Disseminator on the specified object and display the Object Profile for the object. The Search Interface provides an easy means of browsing and examining objects in the repository.

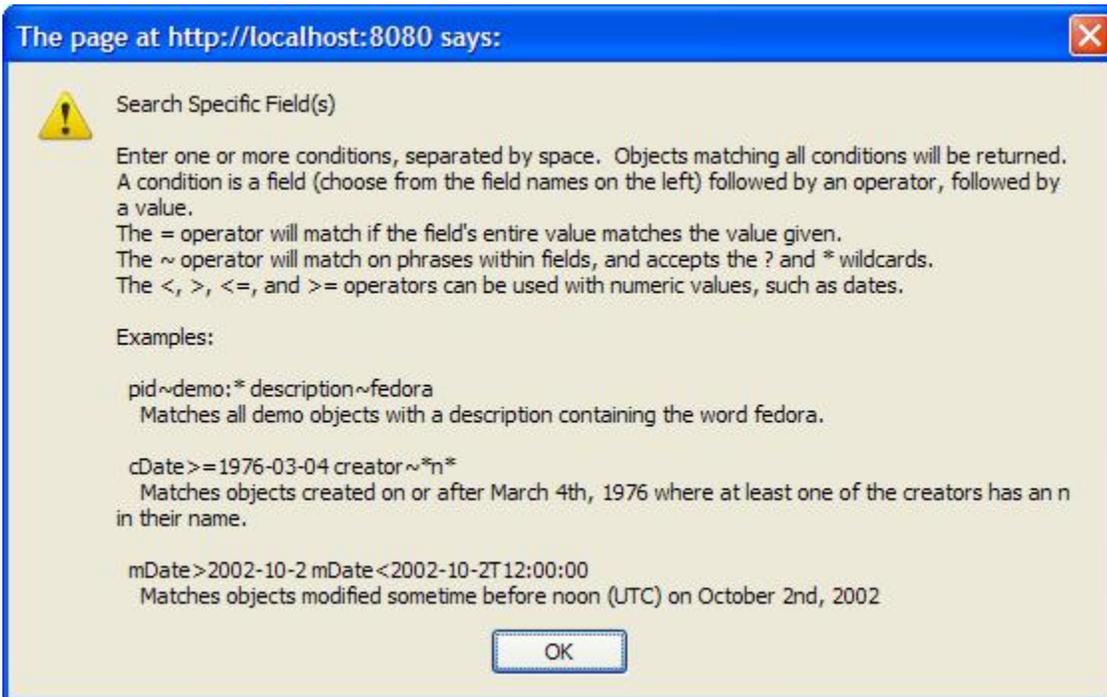| pid	label
demo:5	Image of Coliseum in Rome
demo:29	Image of Coliseum in Rome
demo:7	Image of Architectural Drawings for Pavillion III, University of Virginia
demo:6	Pavillion III, IVA Image Collection - University of Virginia
demo:11	Exibit Intro: Architectural drawings, Pavillion III, IVA Image Collection - University of Virginia
demo:10	Column Detail, Pavillion III, IVA Image Collection - University of Virginia

Simple Search Query Help

The Simple Search query searches both the Dublin Core metadata and the Fedora System Metadata fields. Clicking on the the the *help* hyperlink next to the *Search all fields for phrase* text box will display additional help about Simple Search as displayed below.

The page at http://localhost:8080 says:

⚠ Search All Fields

Enter a phrase. Objects where any field contains the phrase will be returned.
This is a case-insensitive search, and you may use the * or ? wildcards.

Examples:

o
  finds objects where any field contains the letter o.

?edora
  finds objects where a word starts with any letter and ends with edora.

OK

Fielded Search Query Help

The Fielded Search query enables searching of specific fields provided in the query. Clicking on the the *help* hyperlink next to the *search specific field(s)* text box will display additional help about Fielded Search as displayed below.

The page at http://localhost:8080 says:

⚠ Search Specific Field(s)

Enter one or more conditions, separated by space. Objects matching all conditions will be returned.
A condition is a field (choose from the field names on the left) followed by an operator, followed by a value.
The = operator will match if the field's entire value matches the value given.
The ~ operator will match on phrases within fields, and accepts the ? and * wildcards.
The <, >, <=, and >= operators can be used with numeric values, such as dates.

Examples:

pid~demo:* description~fedora
  Matches all demo objects with a description containing the word fedora.

cDate>=1976-03-04 creator~*n*
  Matches objects created on or after March 4th, 1976 where at least one of the creators has an n
in their name.

mDate>2002-10-2 mDate<2002-10-2T12:00:00
  Matches objects modified sometime before noon (UTC) on October 2nd, 2002

OK

Search Field Name Help

Help is also available on each search field name if you are unfamiliar with the search field labels. Clicking on the hyperlink associated with each search field label provides additional help on that specific search field name. An example of the help provided for the *pid* search field is displayed below.

The page at http://localhost:8080 says:

⚠ Persistent Identfier

The globally unique identifier of the resource.

OK

Unable to render {include} The included page could not be found.