LibraryCloud APIs

Library Cloud is a metadata service that provides open, programmatic access to the metadata available within the Harvard Library ecosystem. It normalizes metadata so that it can be found across silos, and enriches it with connections to information within the Library’s collection and beyond. If a resource that should be part of Library Cloud is added or updated, the metadata should be in LibraryCloud the next day.

LibraryCloud offers item and collection APIs that provide search access to Harvard collections metadata:

- The item API searches over 20 million aggregated metadata records sourced from Harvard Library’s main catalog (Alma), JSTOR Forum (for visual information components), and ArchivesSpace (for archival finding aid components). When digitized content is available, these metadata records are enriched with information from Harvard Library’s digital repository (DRS).
- The collection API provides access to metadata about groupings or sets of these items created for administrative and discovery purposes by Harvard staff.

About the Collections API

The base URI for the collections API is http://api.lib.harvard.edu/v2/collections. Use this API to:

- Retrieve a list of all existing collections (sets), with full set metadata including set name, abbreviation (setSpec), set identifier, size, and description:
  https://api.lib.harvard.edu/v2/collections?limit=100 (include a limit parameter, otherwise this query returns the first 10 sets only).
- Retrieve collection metadata for a single set, by set identifier:
  https://api.lib.harvard.edu/v2/collections/57203/
- Retrieve a list of items in a specific set, by set identifier:
  https://api.lib.harvard.edu/v2/collections/57203/items (returns a simple list of record identifiers for items in the set)

Note: The Items API supports querying full item records by associated set metadata. For example, the following items API queries use set metadata to return items in the English Crime and Execution Broadsides set:

- Retrieve items by collectionID:
  https://api.lib.harvard.edu/v2/items?collectionId=57203
- Retrieve items by collectionTitle:
  https://api.lib.harvard.edu/v2/items?collectionTitle=English Crime and Execution Broadsides
- Retrieve items by setName:
  https://api.lib.harvard.edu/v2/items?setName=English Crime and Execution Broadsides
- Retrieve items by setSpec:
  https://api.lib.harvard.edu/v2/items?setSpec=crimes

About the Items API

The base URI for items is https://api.lib.harvard.edu/v2/items.

Keyword Query

The simplest query to the API includes only a search term:

https://api.lib.harvard.edu/v2/items?q=peanuts

The response will include all items where any field contains the text “peanuts”.

Multiple terms may be used in a simple query:

https://api.lib.harvard.edu/v2/items?q=Schulz peanuts
https://api.lib.harvard.edu/v2/items?q=Schulz+panuts
https://api.lib.harvard.edu/v2/items?q=Schulz AND peanuts

All the above queries will return items where any field contains the text “Schulz” AND “peanuts”.

https://api.lib.harvard.edu/v2/items?q=Schulz OR peanuts

The response will include all items where any field contains the text “Schulz” OR “peanuts.”

https://api.lib.harvard.edu/v2/items?q=Schulz NOT peanuts

The response will include all items where any field contains the text “Schulz” but NOT “peanuts.”

Need help? If you have questions or need to report a problem when using LibraryCloud APIs, please contact LTS Support.
Multiple terms can be combined with Boolean operators and parentheses in a complex query:
https://api.lib.harvard.edu/v2/items?q=(ethic*+OR+moral*)+AND+(bioengineering+OR+cloning)

Query Response

The response to any query contains the total number of matching records, the number of records included within this response, the page number of this response, and the matching records.

Sample XML response:
https://api.lib.harvard.edu/v2/items?q=peanuts

Sample JSON response:
https://api.lib.harvard.edu/v2/items.json?q=peanuts

Searching by Field

See the Field Reference for a list of field-based queries.

A query can be limited to a particular field:
https://api.lib.harvard.edu/v2/items?title=peanuts
This query returns all items with the text “peanuts” in the title field.

Field-based queries support combining or excluding terms with AND, OR, NOT:
https://api.lib.harvard.edu/v2/items?subject=schulz charles
https://api.lib.harvard.edu/v2/items?subject=schulz+charles
https://api.lib.harvard.edu/v2/items?subject=schulz AND charles
All the above queries will return items where any subject field contains the text “schulz” AND “charles”.

https://api.lib.harvard.edu/v2/items?title=archaeology OR archeology
This query returns all items containing the text “archaeology” OR archeology in a title field.

https://api.lib.harvard.edu/v2/items?name=updike NOT john
This query returns all items where any name field contains the text “updike” but NOT “john”.

Multiple queries can be combined:
https://api.lib.harvard.edu/v2/items?title=peanuts&q=snack
This query returns all items with the text “peanuts” in the title field and “snack” anywhere in the record.

https://api.lib.harvard.edu/v2/items?title=peanuts&name=Schulz
This query returns all items with the text “peanuts” in the title field and “Schulz” in the name field.

Case-sensitive exact-match queries can be done on specific fields by appending _exact to the field name:
https://api.lib.harvard.edu/v2/items?title_exact=Peanuts
This query returns all items with a title of exactly “Peanuts”. In the Field Reference list, the "Exact Match Search" column indicates if a field supports an exact match query. Note that an exact query can match on contents of a single MODS field only. In the conversion to LibraryCloud MODS, a single field may be split up – for example, a MARC subject heading and its subdivisions will each be fielded separately. In this case, there isn’t an item API fielded query that will return only matches on the full subject heading and its subdivisions.

Accented Characters and Punctuation

If your query terms contain accented characters, include these in the search:
https://api.lib.harvard.edu/v2/items?name=Saint-Exupéry, Antoine de
https://api.lib.harvard.edu/v2/items?name=Molière

If your query includes an ampersand, the ampersand must be replaced by the URL-encoded equivalent (%26). For example, to search the title Saxo Grammaticus & the life of Hamlet:
https://api.lib.harvard.edu/v2/items?title_exact=Saxo+Grammaticus+%26+the+life+of+Hamlet

At this time, LibraryCloud queries can be sensitive to the presence of punctuation. Some MODS fields (e.g. Genre) include supplied punctuation (e.g., a terminal period or comma) that must be included in the query or it will fail.

Stemming, Stopwords and Wildcards

LibraryCloud uses standard Solr index stemming and stopword lists. The stemming algorithm is based on the Porter stemming algorithm.

Keywords may be wild-carded with an asterisk:
https://api.lib.harvard.edu/v2/items?title=peanut*
https://api.lib.harvard.edu/v2/items?title=p*nut

Pagination
By default, a query response will include the first 10 records available. You can increase the number of records returned (up to a max of 250) by using the optional limit parameter. For example, the following query will return the first set of 50 matching records:

https://api.lib.harvard.edu/v2/items?title=peanuts&limit=50

You can combine limit with either the start or cursor parameters to paginate an entire result set. Do not combine start and cursor parameters in a single query.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>limit</td>
<td>The number of results to return. Omit limit and the default is 10 records. May be between 0 and 250.</td>
</tr>
<tr>
<td>start</td>
<td>The row number to start returning results from. If omitted, will default to 1.</td>
</tr>
<tr>
<td>cursor</td>
<td>Encoded pointer to a specific record in the search results set. On subsequent requests, the server returns results after the given pointer.</td>
</tr>
</tbody>
</table>

### Paginating with Start

Use the start parameter to set a numerical offset at which the next page will start and add the limit parameter to set the number of results per page. (Omit the limit parameter and the api will return 10 records per page by default.) For example, the following query will return results starting at item 100, with a page size of 50 (e.g., records 100 through 149):

https://api.lib.harvard.edu/v2/items?title=peanuts&start=100&limit=50

Query results will include this top-level <pagination> block:

```xml
<pagination>
  <maxPageableSet>100000</maxPageableSet>
  <numFound>768</numFound>
  <query>start=100&limit=50&title=peanuts</query>
  <limit>50</limit>
  <start>100</start>
</pagination>
```

As the <maxPageableSet> element indicates, for performance reasons this api can paginate result sets up to a maximum size of 100,000 records. Beyond this number, you’ll need to adjust the query to reduce results to a size that can be paginated.

**Pros:** Pagination using the start parameter supports the default sort by relevancy or alphanumeric sort (when available).

**Cons:** Pagination using the start parameter does not scale well with larger result sets. For example, queries using start can time out at around 30,000 record hits.

### Paginating with Cursor

A cursor is a pointer to a specific record in a result set. (In this case, the cursor is an encoded version of a record identifier.) The api uses the cursor to divide a list of results into records that fall before the cursor and records that fall after the cursor. In your initial query, include the parameter cursor=* (along with a limit parameter to define number of results per page) and the api will return the first page of results plus a <nextCursor> value. For example, the following query will return the first 50 records that match the query along with a nextCursor value that can be used as the cursor value in the next request:

https://api-qa.lib.harvard.edu/v2/items?title=peanuts&cursor=*&limit=50

Query results will include this top-level <pagination> block:

```xml
<pagination>
  <maxPageableSet>100000</maxPageableSet>
  <nextCursor>AoEyOTkwMDM3NTk4NzAwMjAzOTQx</nextCursor>
  <numFound>769</numFound>
  <query>cursor=*&limit=50&title=peanuts</query>
  <limit>50</limit>
  <start>0</start>
</pagination>
```

To get the next set of results, the client (web browser or application) would make another query that uses the <nextCursor> value as cursor parameter. For example, the following query will return the next 50 matching records:

https://api-qa.lib.harvard.edu/v2/items?title=peanuts&cursor=AoEyOTkwMDM3NTk4NzAwMjAzOTQx&limit=50

The <pagination> block in the next set of query results will include a new <nextCursor> value that can be used in the subsequent query, and so on.

**Pros:** Pagination using the cursor parameter works well with large result sets but note that the api can paginate result sets up to a maximum size of 100,000 records. Beyond this number, you’ll need to adjust the query to reduce results to a size that can be paginated.

**Cons:** Pagination using the cursor parameter currently returns results in alphanumeric order by record identifier. Support for sort by relevancy is planned for the future. Also, at this time the api will return a <nextCursor> value even if there are no more results to return.
Sorting

By default, query responses are sorted by relevancy and sub-sorted by record identifier. In some cases, query responses can be sorted in ascending or descending alphanumeric order. See the "Alpha Sort" column in the Field Reference for an indication of which fields support alphanumeric sorting.

This query returns results sorted in ascending order by source of item:
https://api.lib.harvard.edu/v2/items?q=university AND choir&sort=source

This query returns results sorted in descending order by recordIdentifier of item:
https://api.lib.harvard.edu/v2/items?title=peanuts&sort.desc=recordIdentifier

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>sort.asc OR sort</td>
<td>The field to use for sorting, in ascending order</td>
</tr>
<tr>
<td>sort.desc</td>
<td>The field to use for sorting, in descending order</td>
</tr>
</tbody>
</table>

Facets

Facets are attributes of an item (name, genre, type of resource, language, date, etc.) that can be used to power a faceted search or browse option in a discovery system. The items API supports a facets parameter that will return a list of facet values present in the query results. Many item API fields are available for faceting – see the Field Reference "Can Facet" column for an indication of which fields can be faceted.

For example, this query will return items that contain "peanuts" in a title followed by a list of facet values (and counts) for the "name" and "resourceType" fields that are present in the query results:
https://api.lib.harvard.edu/v2/items.json?title=peanuts&facets=name,resourceType

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>facets</td>
<td>A comma-separated list of facets to return</td>
</tr>
<tr>
<td>facet_size</td>
<td>The maximum number of facets to be returned for each faceted field. Default is 10. May be between 1 and 100.</td>
</tr>
</tbody>
</table>

Response Format

By default, all responses are in MODS format. Dublin Core (DC) can be requested by adding .dc to the base URI
https://api.lib.harvard.edu/v2/items.dc?title=peanuts

Response Serialization

By default, all responses are returned as XML. Responses can be returned as JSON either by adding ".json" to the base URI, or by setting the "Accept" HTTP header in the request to "application/json". When specifying both the response format and serialization, the format should be added first.
https://api.lib.harvard.edu/v2/items.json?title=peanuts
https://api.lib.harvard.edu/v2/items.dc.json?title=peanuts

API Request Rate Limit

The LibraryCloud API is limited to an average of 300 requests per 5 minutes; if, after 5 minutes, that limit is exceeded, the client will receive a 5 minute timeout before they can resume requests. Please limit your requests to no more once per second.

Cross-Domain Queries

The API sets the necessary CORS header to allow cross-domain requests in supported browsers. Cross-domain queries can also use JSONP by specifying a callback function name in a "callback" parameter.
https://api.lib.harvard.edu/v2/items.json?title=peanuts&callback=myfunction

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>callback</td>
<td>Javascript function name. The response data will enclosed in a javascript function call with this name.</td>
</tr>
</tbody>
</table>

API Versioning

The version number of the API is specified in the base URL (e.g. "v2"). A version number is always required when accessing the API. The version number will be incremented whenever breaking (non backwards-compatible) changes are made to the API.

Field Reference
This section describes the fields available for searching through the API. In some cases, fields available through the API aggregate multiple fields within the MODS records. When applicable, this is identified in the MODS field mapping column.

<table>
<thead>
<tr>
<th>Name</th>
<th>Exact Match Search</th>
<th>Alpha Sort</th>
<th>Can Facet</th>
<th>MODS Field Mapping</th>
<th>Examples/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>abstractTOC</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>abstract</td>
<td>This query returns items with the keyword “justian” in an abstract or table of contents field: <a href="https://api.lib.harvard.edu/v2/items?abstractTOC=justian">https://api.lib.harvard.edu/v2/items?abstractTOC=justian</a></td>
</tr>
<tr>
<td>collectionId</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>extension.sets.systemid</td>
<td>Query by the set/collection ID assigned to items that have been grouped together for delivery via Harvard Digital Collections. This query returns items associated with a specific set by its identifier: <a href="https://api.lib.harvard.edu/v2/items?collectionId=84560">https://api.lib.harvard.edu/v2/items?collectionId=84560</a> Case-sensitive exact match: <a href="https://api.lib.harvard.edu/v2/items?collectionId_exact=84560">https://api.lib.harvard.edu/v2/items?collectionId_exact=84560</a></td>
</tr>
<tr>
<td>collectionTitle</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>extension.sets.setName extension.sets.setSpec</td>
<td>Query by the set/collection title assigned to items that have been grouped together for delivery via Harvard Digital Collections. This query returns items associated with a specific set by set title: <a href="https://api.lib.harvard.edu/v2/items?collectionTitle=Chinese">https://api.lib.harvard.edu/v2/items?collectionTitle=Chinese</a> Rare Books Case-sensitive exact match: <a href="https://api.lib.harvard.edu/v2/items?collectionTitle_exact=Chinese">https://api.lib.harvard.edu/v2/items?collectionTitle_exact=Chinese</a> Rare Books</td>
</tr>
<tr>
<td>copyrightDate</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>originInfo.copyrightDate</td>
<td>Use YYYY format to search. <a href="https://api.lib.harvard.edu/v2/items?copyrightDate=2010">https://api.lib.harvard.edu/v2/items?copyrightDate=2010</a></td>
</tr>
<tr>
<td>dateCaptured</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>originInfo.dateCaptured</td>
<td>Case-sensitive exact match: <a href="https://api.lib.harvard.edu/v2/items?dateCaptured_exact=201502-01">https://api.lib.harvard.edu/v2/items?dateCaptured_exact=201502-01</a></td>
</tr>
<tr>
<td>dateCreated</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>originInfo.dateCreated</td>
<td>Case-sensitive exact match: <a href="https://api.lib.harvard.edu/v2/items?dateCreated_exact=late">https://api.lib.harvard.edu/v2/items?dateCreated_exact=late</a> 18th-early 19th century</td>
</tr>
<tr>
<td>dateIssued</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>originInfo.dateIssued</td>
<td>Case-sensitive exact match: <a href="https://api.lib.harvard.edu/v2/items?dateIssued_exact=1961">https://api.lib.harvard.edu/v2/items?dateIssued_exact=1961</a></td>
</tr>
<tr>
<td>dateRange</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>use YYYY format to search.</td>
<td></td>
</tr>
<tr>
<td>dates.start</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>originInfo.dateCreated</td>
<td>This query returns all works by Molière published from 1990 forward: <a href="https://api.lib.harvard.edu/v2/items?name=Moliere&amp;dates.start=1990">https://api.lib.harvard.edu/v2/items?name=Moliere&amp;dates.start=1990</a></td>
</tr>
<tr>
<td>dates.end</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>originInfo.dateIssued</td>
<td>This query returns all works by Molière published from 1990 backward: <a href="https://api.lib.harvard.edu/v2/items?name=Moliere&amp;dates.end=1990">https://api.lib.harvard.edu/v2/items?name=Moliere&amp;dates.end=1990</a></td>
</tr>
<tr>
<td>dates.end</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>originInfo.dateIssued</td>
<td>This query returns all works by Molière published from 1990 to 2000: <a href="https://api.lib.harvard.edu/v2/items?name=Moliere&amp;dates.start=1990&amp;dates.end=2000">https://api.lib.harvard.edu/v2/items?name=Moliere&amp;dates.start=1990&amp;dates.end=2000</a></td>
</tr>
<tr>
<td>genre</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>genre</td>
<td>Case-sensitive exact match: <a href="https://api.lib.harvard.edu/v2/items?genre_exact=pendants">https://api.lib.harvard.edu/v2/items?genre_exact=pendants</a> (jewelry)</td>
</tr>
<tr>
<td>identifier</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>identifier</td>
<td>This query returns an item by it’s ISBN: <a href="https://api.lib.harvard.edu/v2/items?identifier=9789601426440">https://api.lib.harvard.edu/v2/items?identifier=9789601426440</a></td>
</tr>
<tr>
<td>isCollection</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>typeOfResource</td>
<td>Values are “true” or “false”. Indicates whether or not a record describes a collection of items. <a href="https://api.lib.harvard.edu/v2/items?q=colonial+north+america&amp;isCollection=true">https://api.lib.harvard.edu/v2/items?q=colonial+north+america&amp;isCollection=true</a></td>
</tr>
<tr>
<td>isManuscript</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>typeOfResource</td>
<td>Values are “true” or “false”. Indicates whether or not a record describes manuscript or archival material. <a href="https://api.lib.harvard.edu/v2/items?q=colonial+north+america&amp;isManuscript=true">https://api.lib.harvard.edu/v2/items?q=colonial+north+america&amp;isManuscript=true</a></td>
</tr>
</tbody>
</table>
isOnline | No | Yes† | Yes | "true" if location.url[@access = 'raw object'] exists, "false" otherwise. Indicates whether or not an item is available in digital form; values are "true" or "false". See also inDRS. †Will sort all @access=raw object items together in a result set.

issuance | Yes | No | Yes | originInfo.issuance

languageCode | Yes | No | Yes | language.languageTerm (where languageTerm type=“code”) Search is based on language ISO code.

languageText | Yes | No | Yes | language.languageTerm (where languageTerm type=“text”) Facet as "language" rather than "languageText". For exact match, use "language_exact". Search is based on language name text.

name | Not available | No | Yes | name.namePart e.g. "Greenblatt, Stephen" Will find term in any name field:

originDate | Yes | No | Yes | originInfo.dateIssued
originInfo.dateCreated
originInfo.copyrightDate
originInfo.dateOther

originPlace | Yes | No | Yes | originInfo.place.placeTerm

physicalDescription | No | No | Yes | physicalDescription.form
physicalDescription.note

publisher | Yes | No | Yes | originInfo.publisher

recordIdentifier | Yes | No | No | recordInfo.recordIdentifier at the top level only
priorrecords.recordIdentifier e.g. recordIdentifier=sch00443c00117 (for finding aids), recordIdentifier=S26791_olvsurrogate827653 (for images), recordIdentifier=012956251 (for Aleph) Internal recordInfo.recordIdentifier elements in finding aid components and image records can be searched as keywords.

repository | Yes | No | Yes | Search: location.physicalLocation (where @type="repository") Facet: extension.librarycloud.HarvardRepositories. HarvardRepository Includes Harvard repositories only. A search will query the long form repository name (e.g. Eda Kuhn Loeb Music Library); faceting will return the short form repository name (e.g. Loeb Music).

resourceType | (4/11/19: not working correctly) | Yes | No | Yes | typeOfResource

role | Yes | No | Yes | name.namePart.role.roleTerm
<table>
<thead>
<tr>
<th>Series Title</th>
<th>shelfLocator</th>
<th>source</th>
<th>subject</th>
<th>subject.geographic</th>
<th>subject.hierarchicalGeographic</th>
<th>subject.genre</th>
<th>subject.hierarchicalGeographic.area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
| In relatedItem[@type='series']:
  titleInfo.title
  titleInfo.subtitle
  titleInfo.partName
  titleInfo.partNumber
  facet as "relatedItem" rather than "seriesTitle"
<p>| <a href="https://api.lib.harvard.edu/v2/items?seriesTitle=Harvard-Yenching">https://api.lib.harvard.edu/v2/items?seriesTitle=Harvard-Yenching</a> Institute Monograph Series |
| <a href="https://api.lib.harvard.edu/v2/items?q=peanuts&amp;shelfLocator=Film">https://api.lib.harvard.edu/v2/items?q=peanuts&amp;shelfLocator=Film</a> Mas |
| <a href="https://api.lib.harvard.edu/v2/items?q=earhart">https://api.lib.harvard.edu/v2/items?q=earhart</a> amelia&amp;source=MH:ALMA |
| <a href="https://api.lib.harvard.edu/v2/items?subject=perseus">https://api.lib.harvard.edu/v2/items?subject=perseus</a> |
| <a href="https://api.lib.harvard.edu/v2/items?subject.genre=folklore">https://api.lib.harvard.edu/v2/items?subject.genre=folklore</a> |
| <a href="https://api.lib.harvard.edu/v2/items?subject=geographic">https://api.lib.harvard.edu/v2/items?subject=geographic</a> |
| <a href="https://api.lib.harvard.edu/v2/items?subject=geographic=giza">https://api.lib.harvard.edu/v2/items?subject=geographic=giza</a> |
| <a href="https://api.lib.harvard.edu/v2/items?subject=geographic=boston">https://api.lib.harvard.edu/v2/items?subject=geographic=boston</a> |
| <a href="https://api.lib.harvard.edu/v2/items?subject=geographic.area=galicia">https://api.lib.harvard.edu/v2/items?subject=geographic.area=galicia</a> |
| <a href="https://api.lib.harvard.edu/v2/items?subject=geographic.city=Cochituate&amp;q=maps">https://api.lib.harvard.edu/v2/items?subject=geographic.city=Cochituate&amp;q=maps</a> |
| <a href="https://api.lib.harvard.edu/v2/items?subject=geographic.citySection=charlestown">https://api.lib.harvard.edu/v2/items?subject=geographic.citySection=charlestown</a> |
| <a href="https://api.lib.harvard.edu/v2/items?subject=geographic.continent=africa">https://api.lib.harvard.edu/v2/items?subject=geographic.continent=africa</a> |
| <a href="https://api.lib.harvard.edu/v2/items?subject=geographic.country=canada">https://api.lib.harvard.edu/v2/items?subject=geographic.country=canada</a> |
| <a href="https://api.lib.harvard.edu/v2/items?subject=geographic.country=middlesex">https://api.lib.harvard.edu/v2/items?subject=geographic.country=middlesex</a> |
| <a href="https://api.lib.harvard.edu/v2/items?subject=geographic.extrarerestrialArea=">https://api.lib.harvard.edu/v2/items?subject=geographic.extrarerestrialArea=</a>* |</p>
<table>
<thead>
<tr>
<th>subject.hierarchicalGeographic.island</th>
<th>Yes</th>
<th>No</th>
<th>Yes</th>
<th>subject.hierarchicalGeographic.island</th>
<th><a href="https://api.lib.harvard.edu/v2/items?subject.hierarchicalGeographic.island=">https://api.lib.harvard.edu/v2/items?subject.hierarchicalGeographic.island=</a>*</th>
</tr>
</thead>
<tbody>
<tr>
<td>subject.hierarchicalGeographic.province</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>subject.hierarchicalGeographic.province</td>
<td><a href="https://api.lib.harvard.edu/v2/items?subject.hierarchicalGeographic.province=quebec">https://api.lib.harvard.edu/v2/items?subject.hierarchicalGeographic.province=quebec</a></td>
</tr>
<tr>
<td>subject.hierarchicalGeographic.region</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>subject.hierarchicalGeographic.region</td>
<td><a href="https://api.lib.harvard.edu/v2/items?subject.hierarchicalGeographic.region=nile">https://api.lib.harvard.edu/v2/items?subject.hierarchicalGeographic.region=nile</a></td>
</tr>
<tr>
<td>subject.hierarchicalGeographic.state</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>subject.hierarchicalGeographic.state</td>
<td><a href="https://api.lib.harvard.edu/v2/items?subject.hierarchicalGeographic.state=massachusetts&amp;q=maps">https://api.lib.harvard.edu/v2/items?subject.hierarchicalGeographic.state=massachusetts&amp;q=maps</a></td>
</tr>
<tr>
<td>subject.hierarchicalGeographic.territory</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>subject.hierarchicalGeographic.territory</td>
<td><a href="https://api.lib.harvard.edu/v2/items?subject.hierarchicalGeographic.territory=">https://api.lib.harvard.edu/v2/items?subject.hierarchicalGeographic.territory=</a>*</td>
</tr>
<tr>
<td>subject.name</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>subject.name</td>
<td><a href="https://api.lib.harvard.edu/v2/items?subject.name=kubrick">https://api.lib.harvard.edu/v2/items?subject.name=kubrick</a> stanley</td>
</tr>
</tbody>
</table>

Case-sensitive exact match:
https://api.lib.harvard.edu/v2/items?subject.name=Kubrick, Stanley |
subject.name.role | Yes | No | Yes | subject.name.role | https://api.lib.harvard.edu/v2/items?subject.name.role=cmp |
Terms may be expressed as a word (photographer.) or abbreviation ("cmp" for composer). |
subject.name.role.roleTerm | Yes | No | Yes | subject.name.role.roleTerm | https://api.lib.harvard.edu/v2/items?subject.name.role_exact=Photographer. |
subject.temporal | Yes | No | Yes | subject.temporal | https://api.lib.harvard.edu/v2/items?q=samurai&subject.temporal=edo |
Case-sensitive exact match:
https://api.lib.harvard.edu/v2/items?q=samurai&subject.temporal_exact=Edo |
subject.topic | Yes | No | Yes | subject.topic | https://api.lib.harvard.edu/v2/items?subject.topic=Mochica pottery |
Case-sensitive exact match:
https://api.lib.harvard.edu/v2/items?subject.topic_exact=Mochica pottery |
subject.titleInfo | Yes | No | No | titleInfo.title | https://api.lib.harvard.edu/v2/items?subject.titleInfo=complete motown singles |
Case-sensitive exact match:
https://api.lib.harvard.edu/v2/items?subject.titleInfo_exact=complete motown singles |
url | Yes | No | No | location.url | https://api.lib.harvard.edu/v2/items?q=earhart amelia&url="RAD.SCHL* |
Can be URLs or URNs; includes links to digital content and catalog records. |
url.access | Yes | No | Yes | location.url.access | https://api.lib.harvard.edu/v2/items?q=earhart amelia&url.access="RAD.SCHL* |
location.url.access (range = <preview, raw object>) facet as url.access.preview or url.access.raw_object |
Query for records containing a url field with a specific @access attribute. Values are: |
"preview"= indicates link to image thumbnail |
"raw object"= indicates link to full online content |

This query returns items containing a url with the attribute access="preview" (i.e., an image thumbnail link is present): |
https://api.lib.harvard.edu/v2/items?q=earhart amelia&url.access=preview |
This query returns items containing a url with the attribute access="raw object" (i.e., a link to full digital content is present): |
https://api.lib.harvard.edu/v2/items?q=earhart amelia&url.access=raw object |

urn | No | No | No | location.url | https://api.lib.harvard.edu/v2/items?urn=urn-3:FHCL:1155043 |
Queries an item by its NRS URN (the URN only e.g., "urn-3:FHCL:1155043" minus the actionable URL components). |

**DRS Extensions**

| drsField (valid if inDRS=true) | extension.HarvardDRS.drsField |
The database identifier in the DRS for a file. |
|---------------------------------|---------------------------------|
This query will return a LibraryCloud item by the corresponding DRS file ID: |
https://api.lib.harvard.edu/v2/items?drsField=481890727 |

drObjectId (valid if inDRS=true) | extension.HarvardDRS.drObjectId |
The database identifier in the DRS for an object. |
|---------------------------------|---------------------------------|
This query will return an item for the Harvard Book by corresponding DRS object ID: |
https://api.lib.harvard.edu/v2/items?drObjectId=2573632 |
This query will return all items in Library Cloud that have a corresponding digital object in the DRS: |
https://api.lib.harvard.edu/v2/items?drObjectId=* |

| accessFlag (valid if inDRS=true) | Yes | No | Yes | extension.HarvardDRS.accessFlag |
(range = <P, R, N>) P (publicly accessible), R (restricted to Harvard), N (not available for delivery) |
See also: availableTo to query human-readable version of DRS accessFlags. |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
This query will return LibraryCloud items for an item in the DRS: |
https://api.lib.harvard.edu/v2/items?genre=daguerreotype&accessFlag=P
<table>
<thead>
<tr>
<th>Field Name</th>
<th>Validation</th>
<th>Description</th>
<th>Example URL</th>
</tr>
</thead>
</table>
| contentModel (valid if inDRS=true) | Yes No Yes | extension.HarvardDRS.contentModel (range = <_AUDIO, DOCUMENT, PDS_DOCUMENT, PDS_DOCUMENT_LIST, STILL_IMAGE, TEXT, VIDEO>) Use _exact query to find "DOCUMENT". Use case-sensitive exact match query to find "DOCUMENT". | https://api.lib.harvard.edu/v2/items?contentModelCode=CMID-5.0
| contentModelCode (valid if inDRS=true) | extension.HarvardDRS.contentModelCode | An identifier that uniquely identifies a specific DRS content model. For example, CMID-5.0 identifies the Still Image content model. See the DRS Content Guide for content model names and identifiers. | https://api.lib.harvard.edu/v2/items?contentModelCode=CMID-5.0                                           |
| inDRS | Yes No Yes | extension.HarvardDRS.inDRS (range = <true, false>) Query for items by status of the View Text setting of the digital object in DRS. See also isOnline. | https://api.lib.harvard.edu/v2/items?genre=daguerreotype&inDRS=true |
| modified.after (valid if inDRS=true) | Yes No No | extension.HarvardDRS.lastModifiedDate - eg. "2016-05-03" Query items by the "last modified" date of a linked digital object in DRS (in YYYY-MM-DD format). | This query returns items in DRS last modified after 2016-01-05: https://api.lib.harvard.edu/v2/items?q=*&modified.after=2016-01-05 |
| modified.before (valid if inDRS=true) | No No | This query returns items in DRS last modified prior to 2015-01-01: https://api.lib.harvard.edu/v2/items?q=*&modified.before=2015-01-01 | This query returns items in DRS last modified after a specific date: https://api.lib.harvard.edu/v2/items?q=*&modified.before=2016-01-05 |
| ownerCode (valid if inDRS=true) | Yes No Yes | extension.HarvardDRS.ownerCode, eg. "FHCL.HOUGH" | This query will return all items in Library Cloud that have a corresponding digital object in DRS with content model CMID-5.0 (Still Image): https://api.lib.harvard.edu/v2/items?genre=daguerreotype&inDRS=true |
| ownerCodeDisplayName (valid if inDRS=true) | Yes No Yes | extension.HarvardDRS.ownerCodeDisplayName, eg. "Houghton Library" | This query returns the LibraryCloud item for the Harvard Book by its object owner supplied name: https://api.lib.harvard.edu/v2/items?ownerSuppliedName=124783.xml |
| ownerSuppliedName (valid if inDRS=true) | Yes No Yes | The distinctive name for the digital item provided by the owning Harvard repository responsible for the content. This is the DRS object owner supplied name (OSN). | This query returns the LibraryCloud item for the Harvard Book by its object owner supplied name: https://api.lib.harvard.edu/v2/items?ownerSuppliedName=124783.xml |
| suppliedFilename (valid if inDRS=true) | extension.HarvardDRS.suppliedFilename | | |
| uriType (valid if inDRS=true) | Yes No Yes | extension.HarvardDRS.uriType (range = <FDS, IDS, IDS_VIDEO, PDS, PDS_LIST, PDS, SDS_VIDEO>) Query for items by type of delivery urn, which is a proxy for type of delivery service. Delivery service types: FDS (text documents), IDS (images), PDS (page-turned objects), PDS_LIST (list of page-turned objects), SDS (streaming audio), SDS_VIDEO (streaming video) | This query returns items owned by Houghton that have the View Text control set "off": https://api.lib.harvard.edu/v2/items?repository=houghton&viewText=off |
| viewText (valid if inDRS=true) | Yes No Yes | extension.HarvardDRS.viewText (range = <on, off>) Query items by status of the View Text setting of the object in DRS. View Text is an object-level field that controls the View Text menu option in the PDS user interface. | |

*LibraryCloud Extensions*
<table>
<thead>
<tr>
<th>Field</th>
<th>Available</th>
<th>Required</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>availableTo</td>
<td>Yes</td>
<td>No</td>
<td>Human-readable values for access to digital content in Harvard’s Digital Repository Service (DRS). Values are “Everyone” (corresponds to accessFlag=P) and “Harvard only” (corresponds to accessFlag=R). See also: availableTo to query by DRS accessFlag.</td>
<td><a href="https://api.lib.harvard.edu/v2/items?q=colonialism&amp;availableTo=Everyone">https://api.lib.harvard.edu/v2/items?q=colonialism&amp;availableTo=Everyone</a></td>
</tr>
<tr>
<td>digitalFormat</td>
<td>No</td>
<td>Yes</td>
<td>Human-readable values derived from the contentModel for an object in Harvard’s Digital Repository Service (DRS). Values are audio, books and documents, images, and video. See also: contentModel to query by the DRS content model of an object in Harvard’s Digital Repository Service (DRS).</td>
<td><a href="https://api.lib.harvard.edu/v2/items?subject=poetry&amp;digitalFormat=audio">https://api.lib.harvard.edu/v2/items?subject=poetry&amp;digitalFormat=audio</a></td>
</tr>
<tr>
<td>processed. after</td>
<td>Yes</td>
<td>No</td>
<td>Use YYYY-MM-DD format to search. This processing date indicates the most recent re-ingest of a metadata record (an “item”) into LibraryCloud from its source catalog.</td>
<td>This query returns items processed after the date specified: <a href="https://api.lib.harvard.edu/v2/items?processed.after=2019-01-01">https://api.lib.harvard.edu/v2/items?processed.after=2019-01-01</a></td>
</tr>
<tr>
<td>processed. before</td>
<td>No</td>
<td>Yes</td>
<td>This query returns items processed before the date specified: <a href="https://api.lib.harvard.edu/v2/items?processed.before=2019-01-02">https://api.lib.harvard.edu/v2/items?processed.before=2019-01-02</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>Yes</td>
<td>This query returns items processed between the specified dates: <a href="https://api.lib.harvard.edu/v2/items?processed.after=2018-07-01&amp;processed.before=2019-01-01">https://api.lib.harvard.edu/v2/items?processed.after=2018-07-01&amp;processed.before=2019-01-01</a></td>
<td></td>
</tr>
</tbody>
</table>

**Sets Extensions**

<table>
<thead>
<tr>
<th>Field</th>
<th>Available</th>
<th>Required</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>setName</td>
<td>No</td>
<td>Yes</td>
<td>Human-readable names that identify a set of materials selected by, for example, a curator for administrative or discovery purposes or for harvesting via OAI-PMH.</td>
<td><a href="https://api.lib.harvard.edu/v2/items?setName=chinese">https://api.lib.harvard.edu/v2/items?setName=chinese</a> rare books</td>
</tr>
<tr>
<td>setSpec</td>
<td>No</td>
<td>Yes</td>
<td>Codes used to identify a set of materials selected by, for example, a curator for administrative or discovery purposes or for harvesting via OAI-PMH.</td>
<td><a href="https://api.lib.harvard.edu/v2/items?setSpec=crb">https://api.lib.harvard.edu/v2/items?setSpec=crb</a></td>
</tr>
</tbody>
</table>

**More Query Examples**

- #Search all of LibraryCloud for “peanuts” in the title: https://api.lib.harvard.edu/v2/items?title=peanuts
- #Search for a specific component identifier in a finding aid: https://api.lib.harvard.edu/v2/items?source=MH:OASIS&recordIdentifier=sch00443c00072
- #Search for a specific image component identifier in JSTOR Forum (the identifier actually has the form "<viaRecordId>_<URN>", but the wildcard matches the URN portion if not known: https://api.lib.harvard.edu/v2/items?recordIdentifier=W188002*
- #Search for all components in an OASIS record: https://api.lib.harvard.edu/v2/items?recordIdentifier=sch00443*
- #Look up the MODS for a PDS object given its URN: https://api.lib.harvard.edu/v2/items?urn=urn-3:FHCL.HOUGH:25620083
- #Search all of library cloud for VIA records that are public and have “peanuts” in the title: https://api.lib.harvard.edu/v2/items?title=peanuts&source=MH:VIA&accessFlag=P
- #Get the facet counts for collections with various collection titles: https://api.lib.harvard.edu/v2/items?facets=collectionTitle
- #Get all manuscripts from Schlesinger Library that contain either the string "electronic finding aid available" OR "electronic container list available": https://api.lib.harvard.edu/v2/items?physicalLocation=sch&isManuscript=true&q=(electronic finding aid available) OR (electronic container list available)