

# Creating Image Retrieval Links within DRL Image Collections

Digital Research Library, University Library System, University of Pittsburgh  
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This documentation will provide instructions on how to create a URL that will act as a search string to retrieve 1) one specific image, and 2) two or more images related to a specific topic. Ideally these links should be embedded in Web pages, PDF files, or Blackboard (CourseWeb). Creating such links could be most effective if incorporated into instructional material (e.g., curriculum).

One rule of thumb to follow before you start is to conduct a search for the image(s) you want to retrieve and display. As long as you get the results you want, you can build an appropriate query.

All the examples in this documentation are from the Chartres Cathedral image collection (<http://images.library.pitt.edu/c/chartres>) hosted by the University of Pittsburgh's Digital Research Library (DRL). As a result of receiving an Innovation in Education grant (2004-2005) from the University with Dr. Alison Stones (Professor of Art and Architecture), the DRL created this documentation to support the innovative ways Dr. Stones will use this collection for pedagogical purposes in Spring 2005.

Although we draw upon the Chartres Cathedral image collection for examples, the URL building principles remain the same for any DRL-hosted image collection. Let us know if we can provide more templates for additional types of links you want to build, or additional mapping field codes to our other image collections (<http://images.library.pitt.edu/cgi-bin/i/image/image-idx/>).

*Disclaimer:* Like anything on the Web, the links you create today *could* break at a later date. Although the DRL believes that your links will be stable into the near future, we cannot guarantee they will always be active. The links are subject to changes in the middleware we use to host image collections.

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I. Linking to a single image

II. Creating a query to search and retrieve a group of images

*A. Creating a link that retrieves multiple images from the same field name.*

*B. Creating a link that retrieves images by searching two fields.*

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## I. Linking to a single image

Behind every one of our images lies a unique URL. This URL can be embedded in any type of document (e.g., Microsoft Word, Adobe PDF, CourseWeb, Web Page, etc.). Once a user clicks on the link, a Web browser will display the given image.

To create a URL to a particular image, you need to know:

- Collection ID (e.g., chartres, vezelay, accd)
- Unique image identifier (e.g., FCW028AGA010; fvez.portal.inner.central.0055)

The URL looks like this:

```
http://images.library.pitt.edu/cgi-bin/i/image/image-idx?view=entry;cc=____;entryid=x-____
```

To link to a specific image, use this URL and complete:

- cc=collection id
- entryid=unique image identifier

The best (and easiest) way to determine these values is to use your Web browser to find the image you want to link to in the specific DRL image collection. Then when you view the full image, you can look up where the URL is displayed to locate the 1) collection identifier and 2) unique image identifier.

Two examples follow:

1. To link to a specific image titled *The Zodiac and Labours of the Months Window*, the URL would look like this:

<http://images.library.pitt.edu/cgi-bin/i/image/image-idx?view=entry;cc=chartres;entryid=x-FCW028AGA010>

cc=chartres  
entryid= FCW028AGA010

2. To link to a specific image titled *Seventeenth Century View of the City of Chartres*, the URL would look like this:

<http://images.library.pitt.edu/cgi-bin/i/image/image-idx?view=entry;cc=chartres;entryid=x-FCAA01CV0010>

cc=chartres  
entryid= FCAA01CV0010

## II. Creating a query to search and retrieve a group of images

### A. Creating a link that retrieves *multiple* images from the *same* field name.

Let's start with an easy example from the Chartres Cathedral image collection. Suppose you want to build a link that will retrieve all images with *Christ* in the Title field. To do this, you actually have to build a URL with a query string. You'll need to know the following:

- What to search on (query term)
- What field it should appear in within the image collection (region)
- What collection to search (collection id)

The URL you need to build will look like this (all one string):

```
http://images.library.pitt.edu/cgi-bin/i/image/image-idx?q1=____;rgn1=____;type=simple;view=thumbnail;c=_____
```

- q1= search term (christ)
- rgn1=database field (chartres\_ti)\*
- c=collection ID (chartres)

Once complete the URL will look like this:

[http://images.library.pitt.edu/cgi-bin/i/image/image-idx?q1=christ;rgn1=chartres\\_ti;type=simple;view=thumbnail;c=chartres](http://images.library.pitt.edu/cgi-bin/i/image/image-idx?q1=christ;rgn1=chartres_ti;type=simple;view=thumbnail;c=chartres)

Let's look at a few more examples.

1. Perhaps you want to retrieve all images with *sculpture* in the "Type of Work" field. Remember that you need to know the search term to use (sculpture), what field it should appear in the database (type of work), and the collection ID (chartres). Filling in the template above with the appropriate values, the URL will look like this:

[http://images.library.pitt.edu/cgi-bin/i/image/image-idx?q1=sculpture;rgn1=chartres\\_ty;type=simple;view=thumbnail;c=chartres](http://images.library.pitt.edu/cgi-bin/i/image/image-idx?q1=sculpture;rgn1=chartres_ty;type=simple;view=thumbnail;c=chartres)

2. Now although the next example is a simple search, it is a bit more challenging to create. You want to retrieve all images of *The Zodiac and Labours of the Months Window* in the "Title of Work" field. The search term in this case is a string of terms: *The Zodiac and Labours of the Months Window*.

Again using the URL template, fill in the appropriate values, but this time you need to separate each term in the search string with a plus (+).

[http://images.library.pitt.edu/cgi-bin/i/image/image-idx?q1=The+Zodiac+and+Labours+of+the+Months+Window;rgn1=chartres\\_tw;type=simple;view=thumbnail;c=chartres](http://images.library.pitt.edu/cgi-bin/i/image/image-idx?q1=The+Zodiac+and+Labours+of+the+Months+Window;rgn1=chartres_tw;type=simple;view=thumbnail;c=chartres)

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\* Please see Appendix A for a list of DRL mapping field codes to use for the Chartres Cathedral Image Collection.

*B. Creating a link that retrieves images by searching two fields.*

There may be other links you want to create that conduct an advanced search over two field names. For example, you want to create a link that retrieves all images of *Mary* in stained *glass* in the Chartres Cathedral image collection. If you went to the search page of the image collection and conducted a search, it would look something like this:

- mary in Title
- AND
- glass in Type of Work

The URL template for this search will look like this:

```
http://images.library.pitt.edu/cgi-bin/i/image/image-  
idx?q1=____;rgn1=____;op2=And;q2=____;rgn2=____;type=boolean;view=thumbnail;c=_____
```

To complete the URL, fill in the blanks with the appropriate values:

- q1=first search term (mary)
- rgn1=database field (title)
- q2=second search term (glass)
- rgn2=database field (type of work)
- c=collection ID (chartres)

Note that the type of search is no longer “simple” but “boolean.”

The final URL will look like this:

[http://images.library.pitt.edu/cgi-bin/i/image/image-idx?q1=mary;rgn1=chartres\\_ti;op2=And;q2=glass;rgn2=chartres\\_ty;type=boolean;view=thumbnail;c=chartres](http://images.library.pitt.edu/cgi-bin/i/image/image-idx?q1=mary;rgn1=chartres_ti;op2=And;q2=glass;rgn2=chartres_ty;type=boolean;view=thumbnail;c=chartres)

## Appendix A: DRL Mapping Field Codes for Chartres Cathedral Image Collection

Alphabetical order by Field Name:

- Anywhere in Record = chartres\_all
- Bibliography = chartres\_bi
- Category of Work = chartres\_cw
- Condition = chartres\_co
- Copyright = chartres\_ri
- Country = chartres\_ct
- Date = chartres\_dd
- Description = chartres\_de
- Filename = chartres\_fn
- Identifier = chartres\_id
- Image Creation Date = chartres\_cd
- Location = chartres\_lo
- Material = chartres\_ma
- Media = chartres\_me
- Monument = chartres\_mt
- Photographer = chartres\_cr
- Sort Date Beginning = chartres\_bd
- Sort Date End = chartres\_da
- Style = chartres\_sy
- Subtype of Work = chartres\_st
- Title = chartres\_ti
- Title of Work = chartres\_tw
- Type of Work = chartres\_ty

## Appendix B: DRL Mapping Field Codes for Stalinka Image Collection

Alphabetical order by Field Name:

- Anywhere in Record = stalinka\_all
- Creator = stalinka\_cr
- Date = stalinka\_da
- Description = stalinka\_de
- Display Date = stalinka\_dd
- Filename = stalinka\_fn
- Identifier = stalinka\_id
- Location = stalinka\_lo
- Measurements = stalinka\_ms
- Publisher = stalinka\_pu
- Rights = stalinka\_ri
- Subjects = stalinka\_su
- Theme = stalinka\_th
- Title = stalinka\_ti
- Type = stalinka\_ty