

If you would like to batch export a collection from CONTENTdm to Flickr, follow along with these steps.

### **1. API Key**

You will need to obtain an API key and secret code. Go to [http://www.flickr.com/services/api/misc.api\\_keys.html](http://www.flickr.com/services/api/misc.api_keys.html) to begin the process. You will need to give the application a name of your choosing. Next, select “Web Application” as the app type. Finally, enter the URL to `auth.php`, the authentication script included in the suite of scripts. Be sure to save your API key and secret code as you will need it later in the process.

### **2. The Images**

To make things simple, create a public web directory entitled `flickr_uploader` or something similar. In this directory, create a subdirectory entitled `images`. This is the directory where you will place your images for the upload process. Nothing should be in this directory except the images files, preferably in `.jpg` format.

### **3. The XML File**

Here is an example of the Flickr XML format

```
<?xml version="1.0" encoding="utf-8"?>
<collection>
  <record>
    <title>Miami women's basketball team 1907</title>
    <description>
      Subject (TGM): Sports; Universities and colleges; Women's education;
      Basketball players; Basketball uniforms; Coaches (Athletics);
      Group portraits;
      Persistent URL: http://digital.lib.muohio.edu/u/?snyder,4215
    </description>
    <tags>
      Sports; Universities and colleges; Women's education;
      Basketball players; Basketball uniforms; Coaches (Athletics);
      Group portraits; Miami Digital Collections
    </tags>
    <file>2063842134.jpg</file>
  </record>
</collection>
```

In the description section of each image in the Flickr interface, users have the ability to add text and basic HTML code that help describe an image. We decided to include the Subject (TGM) terms and create a hyperlink of the Reference URL that links back directly to the corresponding image in our local CONTENTdm collection. We also used the Subject (TGM) as separate tags in Flickr.

### **4. Exporting Metadata and Creating the XML file**

We used the tab-delimited option in CONTENTdm –in part because we use version 4.3 and we needed to export the filenames. In 5.x users can export an XML file that includes filenames. Once we had the metadata (export.txt) file, we performed the following steps:

- Open this file (in MS Excel) and select fields with meaningful data, e.g. Title, Subject (TGM).
- Perform a quality control check of filenames against the real images.
- Save new file with only selected fields.

- Run a PHP script that transforms the tab-delimited file into the new Flickr-XML format. This is where we created an XML `<record>` element for every image. The title remained the same; the major change was in the `<description>` element, here we decided to include the data from Subject (TGM) and URL – if we needed to include all the metadata fields, we would have added them here; the next `<tags>` element contains the data from subject (TGM) but Flickr will handle each keyword as a separate tag, this is where we added some new tags at the collection level; finally, the `<file>` element which should match the image file names. An example form of how the PHP script works is available at: <http://adler.lib.muohio.edu/~tzocea/files/flickr/>

## **5. PHP Scripts**

The class that we used for this process was `phpFlickr` written by Dan Coulter. Working with this class our upload script does the following:

1. Determines the authenticity of the API key and secret.
2. Creates a connection between your data and Flickr's database infrastructure.
3. Works iteratively through and uploads your images and metadata stored in the XML file to the Flickr profile to which you are logged in.

In order to complete this process for your collection, you will only need to edit two php files. First you will enter your API key and secret into line 11 of `upload.php` and secondly you will do the same into lines 9 and 10 of `auth.php`; Once your images and XML file are in place you just need to point your browser to `upload.php` and the upload process will begin.

Example files and scripts can be downloaded at:

[http://beta.lib.muohio.edu/~jpmichel/flickr\\_test/flickr\\_uploader.tar](http://beta.lib.muohio.edu/~jpmichel/flickr_test/flickr_uploader.tar)