
Marc2IIIF Documentation

Release Beta

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CHAPTER 1

About

This is an application that will allow the user to do the following

1. point it at 1 or more MARC files (either binary or MARCXML)
2. tell the application what type of MARC file it is (binary or MARCXML)
3. have the system convert all the MARC records into IIIF manifests with only the descriptive metadata defined.

CHAPTER 2

Author Information

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the constants used in looking up fields for marc field extraction to proper IIIF fields

`DESCRIPTION_LOOKUPS` is a list MARC fields that could be classified as description fields

`TITLE_LOOKUPS` is a list of MARC fields that could be classified as giving title information

`LABEL_LOOKUPS` is a dictionary where the key is the MARC field and the value is the human interpretable string explaining what that field is

utility functions for `marc2iiif` library

`marc2iiif.utils.combine_subfields_into_one_value` (*list_of_dicts*)

a function to merge a list of dicts into a single string

`:rtype str` :returns the complete value to be printed in the metadata field

`marc2iiif.utils.default_identifier_extraction` (*value*)

a function to take a `pi.lib` URL and return the unique identifier

It splits the URL from the scheme and host name. WARNING: assumes that the scheme is `https` which is hard-coded into the string

Parameters `value` (*str*) – a `pi.lib.uchicago.edu` URL string

`:rtype str` :returns the actual url without domain implementation details

`marc2iiif.utils.match_single_file` (*src*, *pot_match=None*)

a function to determine if a file matches with another file

`:rtype Boolean` :returns whether the file is a match or not

`marc2iiif.utils.search_for_marc_file` (*src*, *pot_match=None*)

a function to determine if a file in a directory tree is a MARC record

Parameters `src` (*str*) – an absolute filepath to a file that may be a MARC record

`:rtype Boolean` :returns whether or not the file is a MARC record

class `marc2iiif.classes.IIIFDataExtractionFromMarc` (*metadata*)

a class to be used for retrieving and packaging metadata from MARC records for conversion to IIIF

add_metadata (*a_dict*)

a method to add a new metadata field to a particular instance

Parameters **a_dict** (*dict*) – a dictionary with the key as the field value found in constants.LABEL_LOOKUPS and value as the particular value that needs to be added

change_description (*value*)

a method to modify the description of the particular IIIF record instance

Parameters **value** (*str*) – the new description to add to the IIIF record

change_title (*value*)

a method to modify the label of the particular IIIF record instance

Parameters **value** (*str*) – the new title to add to the IIIF record

del_metadata ()

deletes the metadata property from the instance

classmethod from_dict (*dictified_marc_record*)

a method to create an instance of IIIFDataExtractionFromMarc from a dictionary of a MARC record

Parameters **dictified_marc_record** (*dict*) – a dictionary containing a complete MARC record

:rtype **:instance:‘IIIFDataExtractionFromMarc‘**

get_metadata ()

gets the value of the metadata property

metadata

gets the value of the metadata property

modify_metadata (*field_to_change, new_value*)

a method to change a particular metadata field

Parameters

- **field_to_change** (*str*) – the name of the field to change
- **new_value** (*str*) – the value to replace the current value of named field with

remove_metadata (*a_dict*)

a method to remove a particular metadata field from the fields

Parameters **a_dict** (*dict*) – a key:value pair where key=field name to delete, and value=the value of the named field to remove

set_metadata (*value*)

sets the metadata property

:param **:instance:‘IIIFMetadataBoxFromMarc‘**: an instance of IIIFMetadataBoxMarc

show_description ()

a method to show the description of the IIIF record

:rtype str :returns the IIIF description for the instance’s Cultural Heritage Object

show_metadata ()

a method to show the metadata fields available for the particular instance

:rtype list :returns a list of strings with field name and field value in each string separated with a ‘:’ such that a single field looks like “field:value”

show_title()

a method to show the title of the IIIF record

It retrieves the label from the metadata information that the instance delegates metadata collection to

:rtype str :returns the IIIF label for the instance's Cultural Heritage Object

to_dict()

a method to output the contents of the instance as a IIIF valid dictionary

:rtype dict :returns the data in the instance as a IIIF valid dict that can be exported to json

class marc2iiif.classes.**IIIFMetadataBoxFromMarc**(*label, description, identifier, fields*)

a class to be used for extracting IIIF metadata from a Marc record

add_field(*a_field*)

a method to add a new field instance to the fields list

:param **instance:'IIIFMetadataField'**: a field to add to the list of fields

classmethod **from_dict**(*a_dict*)

a classmethod to create an instance of the class from a dictionary

Parameter must have a key 'fields' that has a value that is a list of dictionaries. Each of those dictionaries must have a key found in any of the LOOKUP lists and a value that is a list of dictionaries that contain a subfield key and a str value.

Parameters **a_dict** (*dict*) – a dictionary containing a MARC record

class marc2iiif.classes.**IIIFMetadataField**(*name, value*)

a class to be used for extracting IIIF metadata from a Marc record

del_label()

deletes the label property

del_value()

delete the value property

get_label()

gets the value of the label property

get_value()

gets teh value of the value property

label

gets the value of the label property

set_label(*value*)

sets the value of the label property

Parameters **value** (*str*) – the value to set on the property

set_value(*value*)

sets the value of the value property

Parameters **value** (*str*) – the value of the value to set

value

gets teh value of the value property

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