ECC058 – Code Reorganization Assignment 4

# Purpose

The purpose of this assignment is to enhance the urlimage.py library code to include IIIF url management using the code given in class in “Worked Image Class Example.ipynb”.

# Overview

Students can work together to adjust the library code to include IIIF URL management and adjustment. Each student will need to write there own Jupyter Notebook to use an URLImage() object with a IIIF url. The Class should be modified to also accept a Boolean value “isIIIF” so that a URL can be marked as IIIF and split into BaseURL and IIIF parameters.

# Procedure

Class Modification:

1. Open urlimage.py.
2. Add a parameter to \_\_init\_\_ called isIIIF with a default value (= False) of False in a position that will allow one to call ‘URLImage(myIIIFUrl, True)’ to create a URLImage object that will manage the IIIF url.
3. Copy and modify the code shown in class to divided up the IIIF url and save the various values into class member variables self.iiifFormat, self. iiifRotation, self. iiifSize, self. iiifRegion and self. iiifBaseurl.
4. Write a class function to getIIIFUrl() that builds the IIIF URL using a combination of the parameters above and adjust based self.scale such that scale = 1 is that same as ‘full’ and scale of 0.5 is same as ‘pct:50’ and scale of 0.25 is same as ‘pct:25’. This function should return a valid IIIF url. Change the rotation parameter to match the self.rot value is optional.

Notebook Procedure

1. Open a new Python 3 notebook
2. Create a markdown cell to describe this as assignment 4
3. Create a code cell
4. Write an import statement for your library
5. Create a new code cell and add code to extract the IIIF url for your EDH inscription of choice. Note that you can use the code from the class today.
6. Create a new code cell
7. Create a URLImage object using a call to the library similar to ‘URLImage(myIIIFUrl, True, scale=0.1)’
8. Load the IIIF Image.
9. Show the IIIF Image.

# Extra Challenge

Write a class IIIFUrl that takes a string IIIFUrl that

* extracts the parameters for the a URL
* allow to set/get a scale, region, size and/or rotation
* has a getURL function that returns the constructed URL

Use the extra class in the URLImage class