

Assignment#1: Image Viewer

Simple Image Viewer

Requirements:

You are required to create a GUI that allows the user to browse for and display a:

1. DICOM image
2. JPEG image
3. BMP image

The GUI must also display the following information besides the image:

1. Image width and height (number of rows and number of columns)
2. Image total size in bits
3. Bit depth (bit/pixel)
4. Image color (RGB, grayscale, binary)
5. For a DICOM image, display all the above AND:
 - Modality used (US, CT, MR...) [Standard name: *Modality*]
 - Patient name [Standard name: *PatientName*]
 - Patient Age [Standard name: *PatientAge*]
 - Body part examined [Standard name: *BodyPartExamined*]

Submission

Submission will be in person during the tutorial

The due date for submission is [Monday, 18/10/2021](#)

General instructions

- Handle any errors or exceptions that might occur (e.g., corrupted image)
- You are allowed to use MATLAB (App Designer) or Python (PyQt)
- Your code should be clear, understandable, and documented (COMMENTS)
- Follow a consistent naming convention for variables and functions
- The assignment will be graded out of 5