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PIC 10C

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Homework 10 - Documentation

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Image Visualization - PyQt

(Leader: Mehrdad Yazdani)

I am working on subproject 1: **GUI on pyImagePlot project**: Place a GUI for current pyImagePlot: <https://github.com/myazdani/pyImagePlot>. I make an interface for Image Visualization Program. Users can choose one of four options to visualize images:

1. Create montages from recursively from given directory and subdirectories
2. Create montages from provided CSV files (split by categories or bins)
3. Create vertical montages from provided CSV file
4. Create image histogram from provided CSV file

Mehrdad Yazdani has provided codes in Python for image visualization in each option. I design an interface with Qt Designer allow users choosing types of image montages. When users click on each option, it will show an result example of that option. One of my goal is to connect the option chosen from the interface to functions in pyImagePlot\$ python ./montage/menu.py (PyImagePlot - Mehrdad Yazdani)

I discuss with Mehrdad Yazdani to find a solution.

At this moment, I have an interface, codes to create image montages and image histogram (from Mehrdad Yazdani).

Video demonstrates how to use PyImagePlot can be found here:

<https://github.com/myazdani/pyImagePlot>

