imagelabeler

A Python 3.5.2 class that adds labels, such as original date stamps, to .jpg images. Makes use of the **Pillow 5.0.0 image manipulation library**.

Designed to be used in a clinical health setting for automatically datestamping otoscopic pictures.

Basic behaviour:

1. If used as a `__main__` program:

   - Searches the `images/` directory for .jpg images and loads pillow image objects.
   - Creates LabeledImage objects for the images.
     - Labels images with text or original date from Exif data.
     - Returns a merged Pillow Image object.
   - Resizes images for testing purposes.
   - Shows the images on the screen as a preview.

2. The LabeledImage class:

   - Takes a Pillow image instance and creates a new 'drawing' layer to place labels on.
   - Up to 4 labels can be created in each corner of the image.
   - LabeledImage.add_date_label(position) automatically adds the original image creation date.
     - Only works with original .jpgs with required exif data.

To Be Added:

- **Image hashing functions** to keep track whether or not an image has been labeled before.
- Find way to **preserve Exif data** and resize images.
- Functions to move original images to an archive (keep 50 images).
- **Error checking** and handling and optimizations.
- Re-format code to PEP-8 standards, and add docstrings and other documentation.
- **Front end GUI** (PyQT 5)