

Main()

- Ask user if they want to edit an image
 - If the user chooses Y for yes, continue with the program.
 - If the user chooses N for no, end the program.
- Ask for name and location of file, then go to loadImageFromFile()

loadImageFromFile(photoimage_cat)

- User asks the program to scan the photo from the file.
- If the file cannot be read, display an error message.
- Prompt the user to insert a valid image file (if failure, loop till success).

displayImage()

- Displays the valid image.
- If no image is loaded, display message saying no image is currently loaded.

editImage(chooseoption)

- Option 1: Crop
 - Sends the user to the crop function.
- Option 2: Dim.
 - Sends the user to the dim function.
- Option 3: Brighten.
 - Sends the user to brighten function.
- Option 4: Crop.
 - The user is sent to the crop function.
- Option 5: Save.
 - The user is sent to the save function.

cropImage(option1)

- User is sent to function after choosing 1 in the editImage function.
- Tell the user the resolution of the image from the file (if 1920 x 1080, "Image Resolution: 1920 x 1080" is displayed).
- Prompts the user to input 2 coordinates input X and Y.
 - If the user inputs a value that is bigger than the image's x and y value an error message is displayed and prompts the user to input a value smaller.
- Ask the user which corner they want to crop from TR,TL,BL,TL.
 - user inputs BL (bottom left), TL (top left), TR (top right), BR (bottom right).
 - Error message is sent if user inputs anything else.
- Copy pixel data within the bounds of resolution inputted by the user starting from the chosen corner.
- Send the user back to editImage.

dimImage(option2)

- Set the image brightness value from a scale of 0-1, the original brightness of the image will be set to 1 because we are only dimming.
- User is asked to input a value between 0-1 .
-if user inputs 0.5 , that is the equivalent to dimming it 50% percent.
- Updates the brightness value of each pixel
- Send the user back to the editImage function.

brightenImage(option3)

- Set the image brightness value from a scale of 0-1, the original brightness of the image will be set to 0 because we are only brightening.
- User is asked to input a value between 0-1 .
-if user inputs 0.3 , that is the equivalent to brightening it 30% percent.
- Updates the brightness value of each pixel
- Send the user back to the editImage function.

rotateImage90Degrees(clockwise):

- Create a new image file
- Ask the user if rotating clockwise or counter clockwise
- When chosen copy each pixel and - or + the coordinates and flip, different values for whether its clockwise or counter clockwise
- Display a new image.
- Ask user if they want to keep
-if user chooses yes, new image replaces the old image file.
- if user chooses no, old image is not replaced

saveOrExit()

- Asks the user if they want to save
-if the user chooses Y for yes, the image file is saved and overwrites the original image file.
-if the user chooses N for no, the original image file is not overwritten.
- Ask user if they want to exit.
-if the user chooses Y, break the loop.
-if the user chooses N, send user back to the beginning, function loadImageFromFile