

Accomplishments This Iteration

- Finalized Pen Tool
- Fixed “About” Dialog Box
- Fixed Rotate function (included a trim algorithm)
- Added “Copy to Clipboard” functionality
- Fixed error that crashed program from opening a non-image file
- Fixed boundary cases with buttons
- Added True Zooming functionality (before we were only able to scale)
- Finalized Gamma Filter
- Added Traditional, iterative filters
- Added Crop tool
- Added Zoom in on selected area
- Finalized Software Documentation, Manual, and day-to-day progress

Problems This Iteration

This iteration was rocky but the end finally came. When we started working on this and had the goal in mind to add a feature or two and prioritize on code cleanup. Everything changed once our group talked with the TA about our program. At that point we needed to cover all our bases, fix rotate, show implementations of filters, etc. For example, in our filters we have Grayscale and Traditional Grayscale. Both achieve the exact same goal, however Grayscale calls a C# library function and applies a pixel filter for us making this filter instantaneous. However, Traditional Grayscale uses 2 “For” loops applying the pixel filter pixel-by-pixel and is very noticeable for its length of process time.

Another complication was our rotate. We found out with our rotate function was broke after doing some refactoring. We were able to fix this by applying a trim algorithm to each side of the picture after a rotate was performed.

We wanted to finalize all of our features and squash the last of our bugs before finalizing our Software Engineering report, Manual, etc. as we wanted our paperwork to reflect our finalized program.

Documentation Progress

All documentation that was able to be included, has been included in this last submission. The only piece that can't be included is our programmer's guide. Our programmer's guide is located on Andy's CS website. We decided to use Doxygen to generate useful, organized documentation. To do this you enter specially formatted comments in the code that will later be converted to HTML. The link is:

<http://www.cs.kent.edu/~avanek/Capstone/ShoppedDocumentation>

Member Contribution

In these last few weeks we've been in a rush to finalize this project as we all coincide with our other class-work. Dan and Greg have been assisting Andy coding where necessary with Dan's focus on filters, Greg's focus on documentation, and Andy's focus on coding and refactoring.