

Lab: Image Batch Processing

CSI 3305: Introduction to Computational Thinking

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1 Introduction

Most of us have numerous images. Those images can be found in cameras, the Internet or inputted via scanners. Many of those images have issues such as the exposure (lightness/darkness) is not perfect, the size is not correct for the usage of it or you need to apply an effect to all of them. Let's say your camera happens to record images a little dark. How can you brighten those images without having to complete each image individually? Will you be able to resize images from a large size to a size that will work on the web? You need to add a gradient to 105 images?

Programs such as Adobe Photoshop or GIMP allow you to do a task called batch processing. When you accomplish batch processing, it takes a group of images, applies filters or looks and saves out a new group of modified images.

2 Problem Statement

Your task is to batch process a set of images, resizing them and changing the color of the images to black and white, using any batch processing program you like. You must first identify a software application that supports batch processing of images, and then learn the methodology for creating and implementing a batch on the group of images.

3 Tools

You will be using GIMP, Adobe Photoshop or another batch processing software application.

4 Instructions

1. Download the image set zip file from the course website. Unzip the file and save to a local folder.
2. Search Google (or the applications installed locally) to find a software application for batch processing of images.
3. Batch process the set of images to resize them to 80 pixels by 60 pixels and change them to black and white.

5 Questions

1. Describe the application and process you used to batch convert the images.
2. What was the combined total size of all images prior to batch processing?
3. What was the combined total size of all images *after* batch processing them (the size of the processed black and white images)?