Image Classifier: Status Update

- Pixel Dawgs

Data Collection

- Data set collected from Flickr
- Contained text files which had image IDs, tags, and their URLs
- Parsed files and downloaded ~300,000 images
- Associated each image with its given tags and stored that separately as another text file (image IDs stored as indices and tags stored as values)

Data Analysis

Future Work

Data Collection

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Data Analysis

- The source text file was reformatted so that each tag could have an associated list of images
- Computed composite histograms for each image
- Used histogram back projection to "back project" images onto composite histograms
- This generated a resulting image showing the probability of each pixel belonging to the tagged histogram

Future Work

- Image Segmentation (splitting an image into layers) needs to be implemented
- Selected algorithm is K-Means clustering with histogram recombination analysis
- Instead of assigning tags to the whole image, we will assign tags to individual layers
- Initial assignment of tags to the layers will need to be done manually