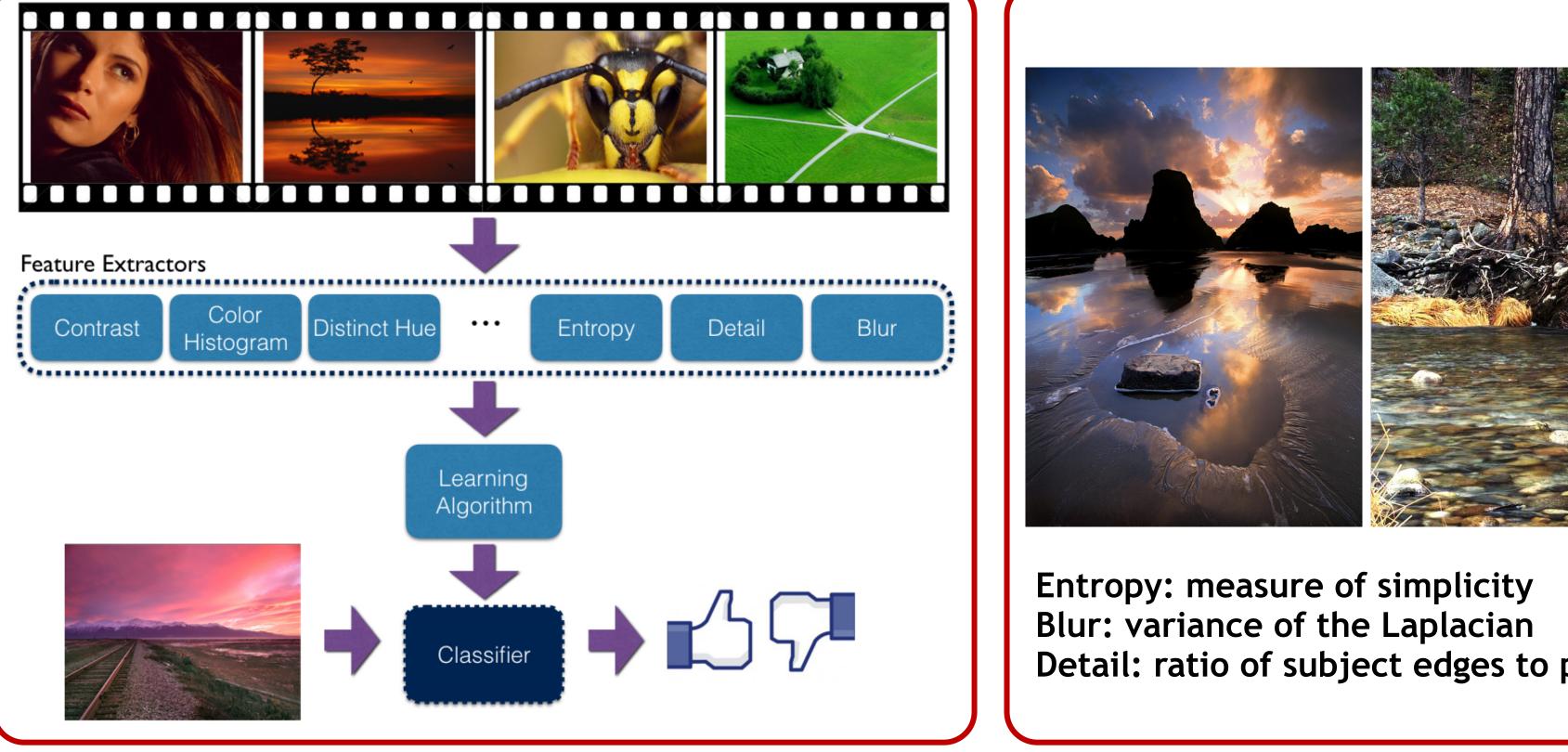
# Classification of Photographs based on Perceived Aesthetic Quality Jeff Hwang, Sean Shi Department of Electrical Engineering, Stanford University

## **Aesthetic Classification**



## Methodology

### Dataset

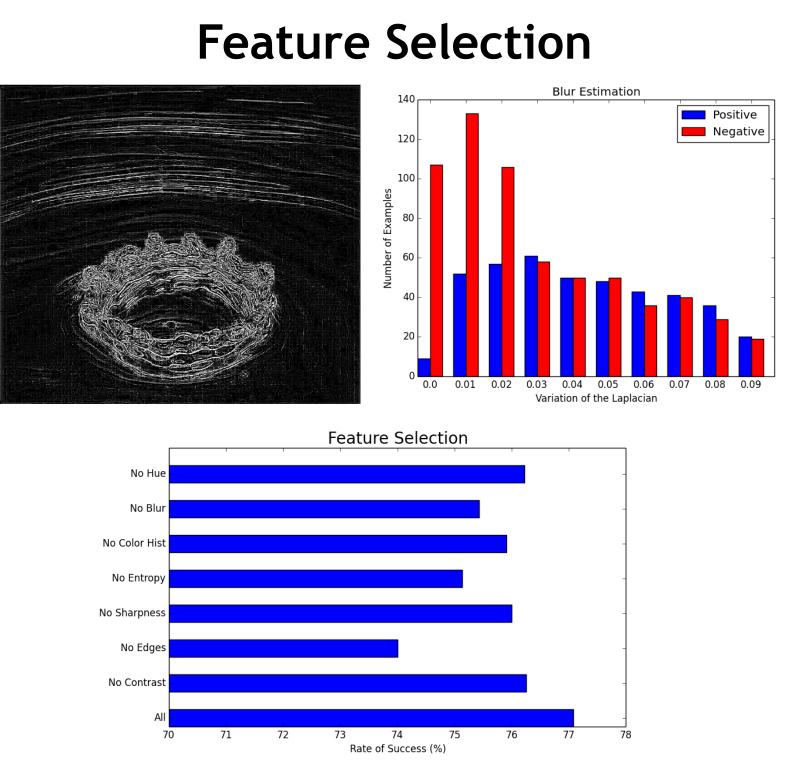
Scraped 2300 images from photo.net, each photograph rated between 1 and 7. We only consider photographs rated below 4.3 or above 6.

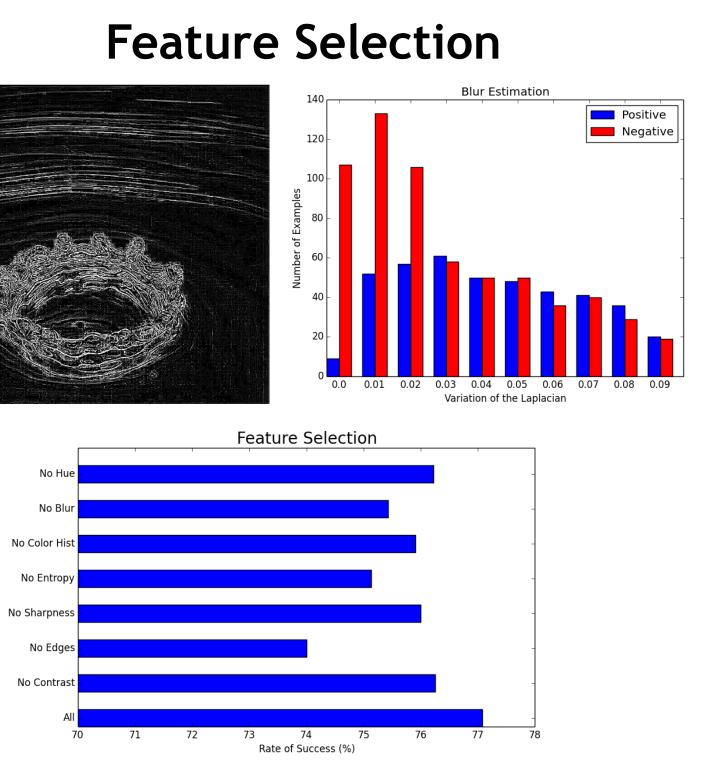
#### Classifier Tuning

Selected regularization, gamma, and kernel parameters of SVM via grid search.

#### **K-fold Cross Validation**

Performance was measured using 10-fold cross validation. Balanced number of positive/negative examples used.





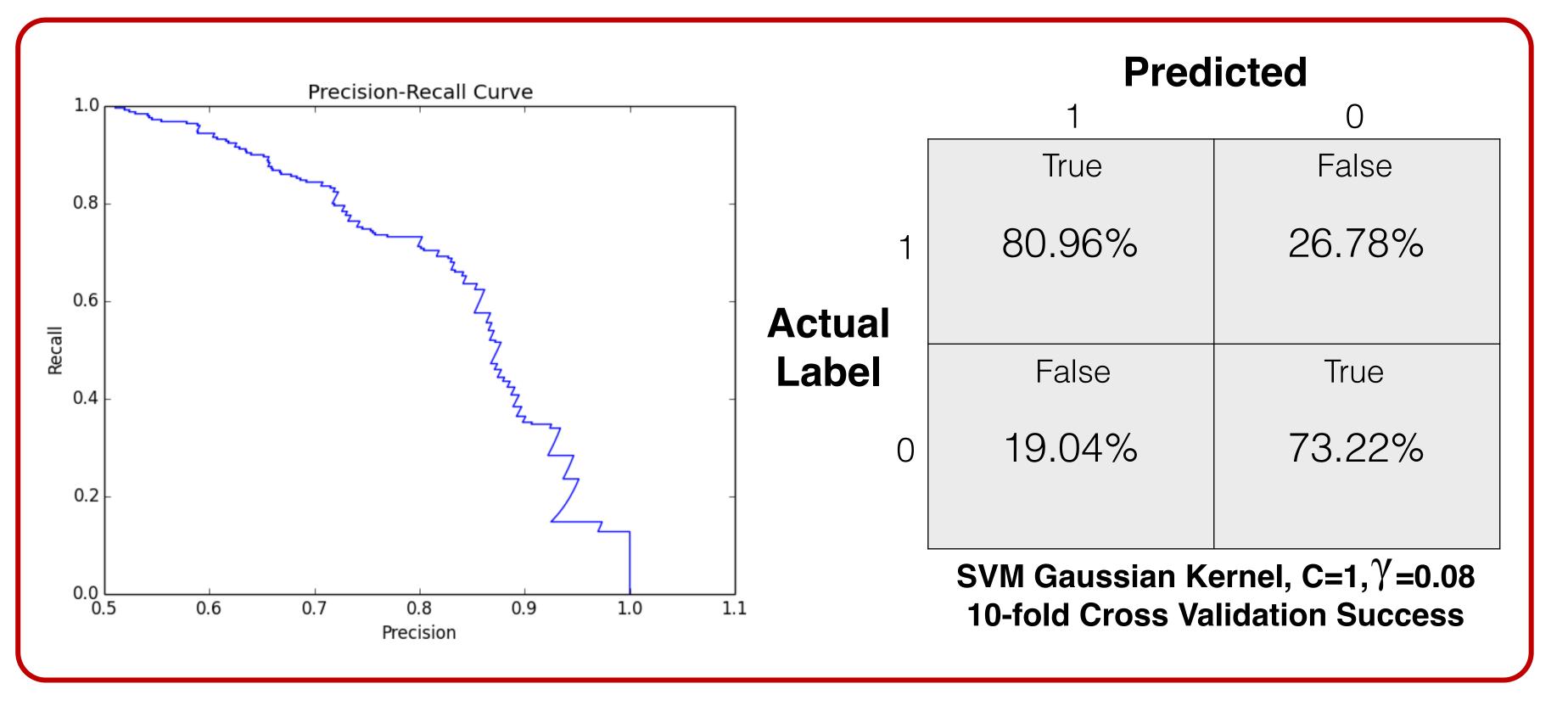
## **Feature Extraction**

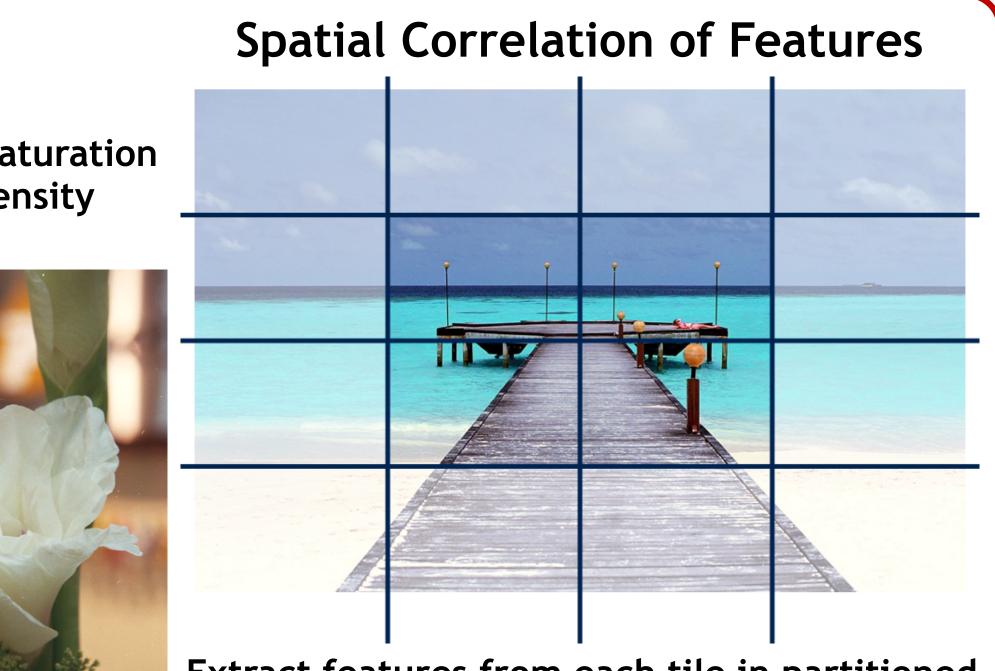
Detail: ratio of subject edges to pixels

Hue: count # of distinct hues Saturation: compute average saturation Contrast: variance of pixel intensity



## **Experimental Results**





Extract features from each tile in partitioned image. Allow machine learning algorithm to infer relationships between the tiles.