

Drawings From Photos

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Motivation: Artists create non-photorealistic (NPR) digital drawings through a variety of stylistic techniques. Our goal is to automatically apply similar techniques to digital images to transform them into stylized NPR drawings. We aim to make a highly customizable system so that users can create their own unique art pieces with ease.

Dataset: ‘Labeled Faces in the Wild’

13,000 celebrities’ face photographs

1 example = 250 x 250 x 3 pixels



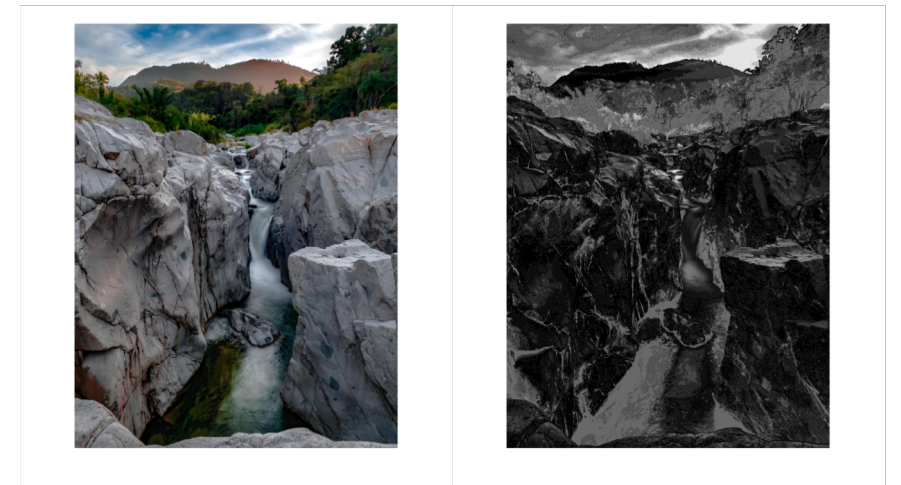
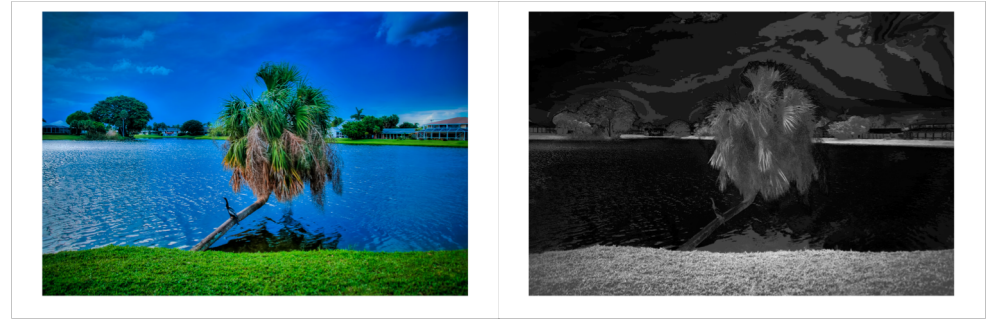
Goal and Methodology

Goal: Create a customizable NPR drawing generator that takes digital face images as input and produces a stylized output.

Pipeline: blending(line sketch, color application)

Plan of Action

1. Method experiments for each subcomponent
2. Identify tunable axis of modification
3. Obtain subjective ratings of how well the different model perform from survey



Saliency maps generation

Initial Results



Baseline Photo2Drawing pipeline



Baseline Photo2Drawing input-output pairs