Group-Theme Recoloring for Multi-Image Color Consistency

Paper_1013

(Supplementary Material)

Supplementary Material

- This supplementary material contains three parts:
  - Part 1 is the instruction which gives to the Photoshop expert to manually produce the results for comparison in our user study.
  - Part 2 is to show several examples of our user study.
  - Part 3 is to show an example of our failure case

Part 1 -
Instruction for expert

Goal

The goal of this exercise is to use Photoshop to modify a set of individual images such that the images share a consistent look and feel in terms of colors. You are free to do this however you like in Photoshop.

This document provides two examples of before and after.

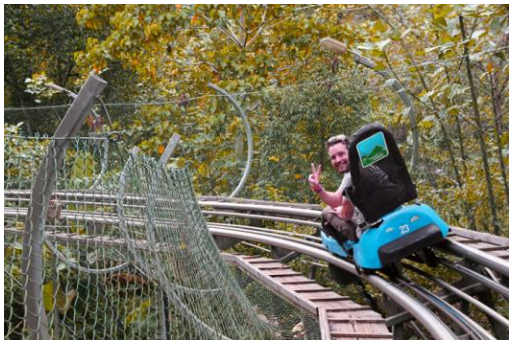
Your Tasks

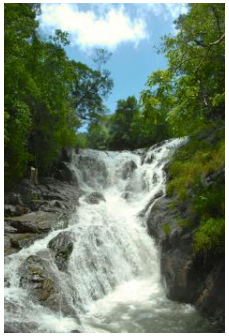
- Modify a set of images to appear color consistent.
- The modified images should look natural. Avoid modifying the images such that they only have a single monotone color.
- Please refer to some examples below for reference

Requirements

- Use Photoshop to complete the above tasks for 10 sets of images.
- Save the output images when you are done.
- Record the total spending time for each set of images.
- Do a video recording of at least one example so we can see how you produced your results.

Example 1: Input




Example 1: Output







Example 2: Input







Example 2: Output







Part 2 -
Examples from our user study

Example 1: Input






Example 1: Expert



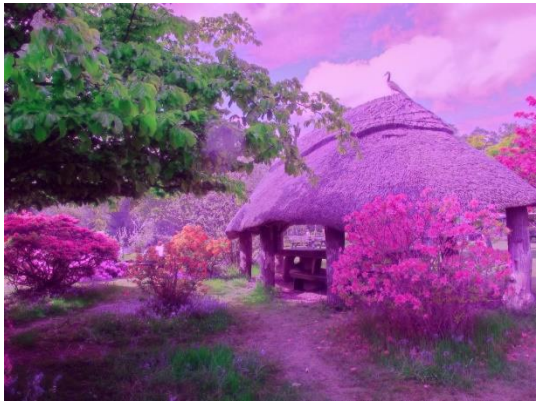



Example 1: Ours






Example 1: Pitie et al.



*The images with an (R) denote they are the one used as the reference image.

Example 1: Reinhard et al.

*The images with an (R) denote they are the one used as the reference image.

Example 1: Xiao and Ma

*The images with an (R) denote they are the one used as the reference image.

Example 1: Nguyen et al.

*The images with an (R) denote they are the one used as the reference image.

Example 1: Park et al.






Example 2: Input






Example 2: Expert






Example 2: Ours






Example 2: Pitie et al.






*The images with an (R) denote they are the one used as the reference image.

Example 2: Reinhard et al.






*The images with an (R) denote they are the one used as the reference image.

Example 2: Xiao and Ma






*The images with an (R) denote they are the one used as the reference image.

Example 2: Nguyen et al.






*The images with an (R) denote they are the one used as the reference image.

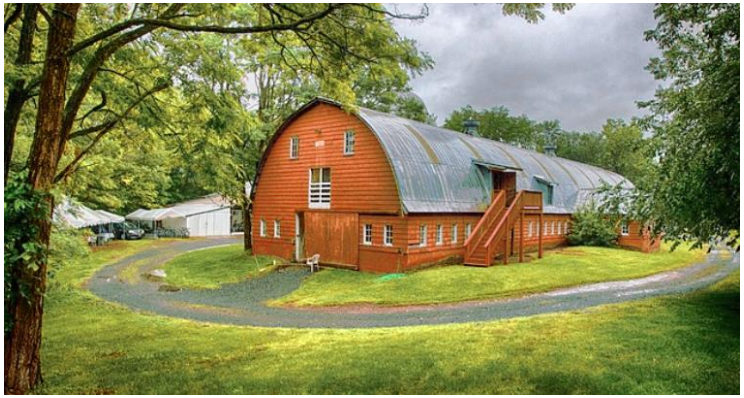
Example 2: Park et al.






Example 3: Input

Example 3: Expert

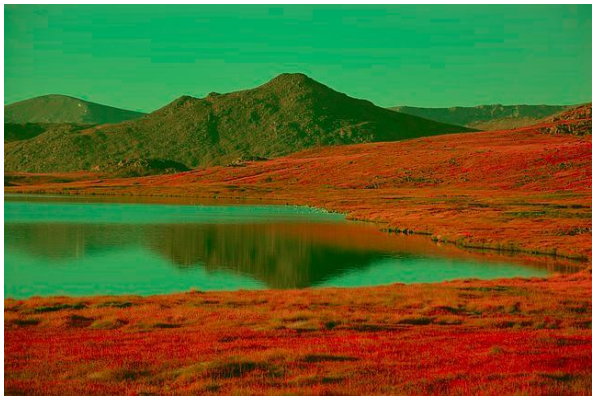


Example 3: Ours

Example 3: Pitie et al.

*The images with an (R) denote they are the one used as the reference image.

Example 3: Reinhard et al.



*The images with an (R) denote they are the one used as the reference image.

Example 3: Xiao and Ma

*The images with an (R) denote they are the one used as the reference image.

Example 3: Nguyen et al.

*The images with an (R) denote they are the one used as the reference image.

Example 3: Park et al.

Part 3 – Failure case

Input

Output without user adjustment





*The skin tone in the fifth image turns to green color that may cause unwanted result

Output with user adjustment