

# **Group-Theme Recoloring for Multi- Image Color Consistency**

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(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

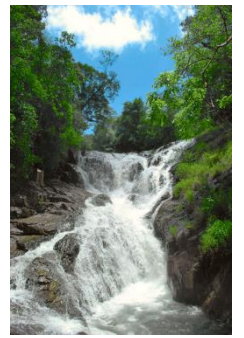
# Requirements

- 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



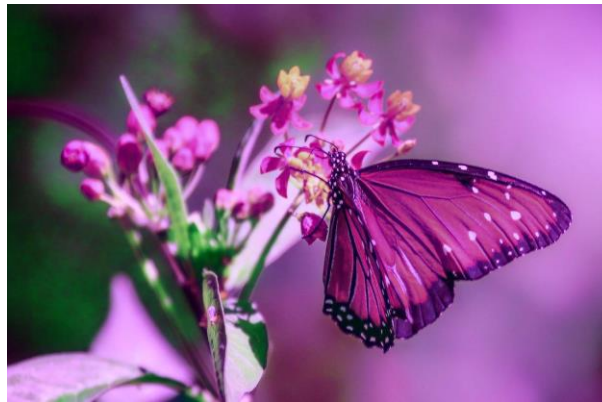
# Example 1: Expert



# 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.

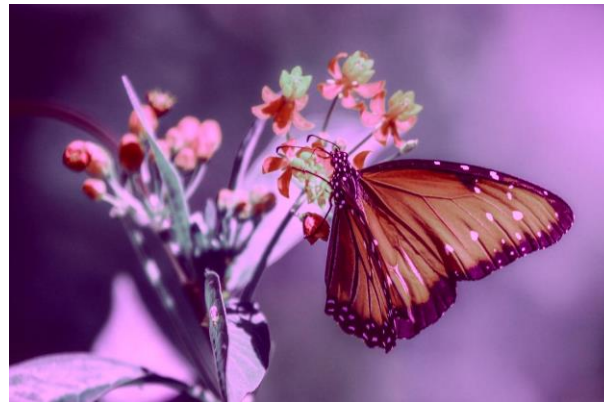


# Example 1: Xiao and Ma



\*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



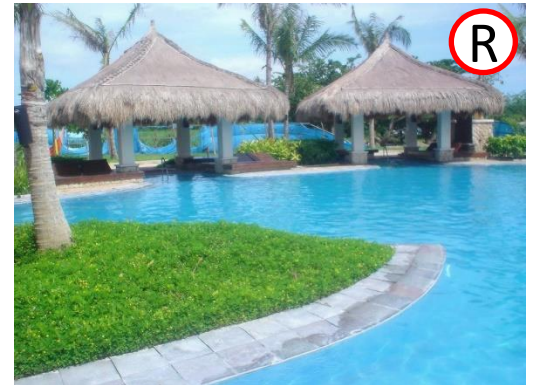
# Example 2: Expert



# Example 2: Ours

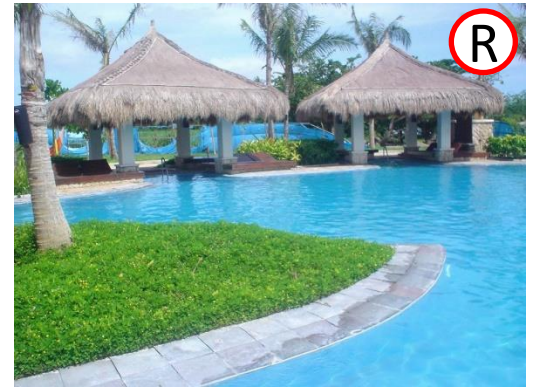


# Example 2: Pitie et al.



\*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.

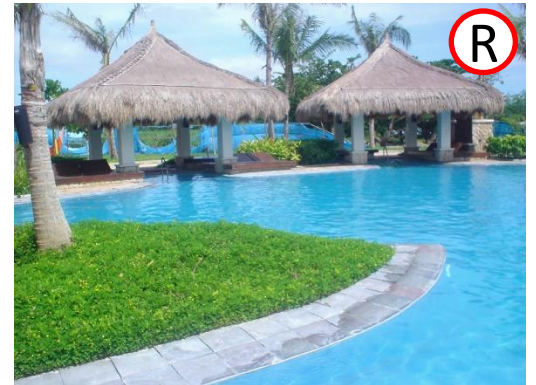


# Example 2: Xiao and Ma



\*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

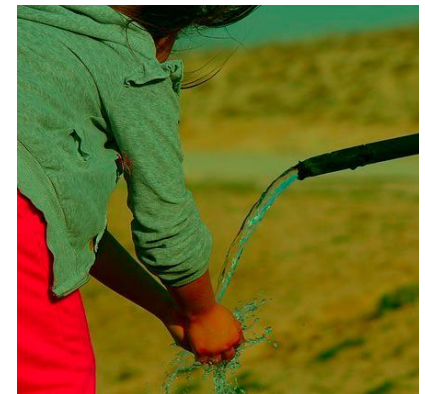


# Example 3: Pitie et al.



\*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

