

Toward Evaluating the Usefulness of Global Illumination for Novices in Lighting Design Tasks

Supplemental material: per-subject results

This document contains the target images each subject receives for each trial, and the final images he or she produces. Additionally, graphs showing the image error plotted over time for all matching trials (Experiments 1 to 3) are given. The image error is computed as the average per-pixel difference (euclidean distance in the perceptually uniform CIELAB color space) between the subject's solution at the particular time and the target image.

Subject 1 Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



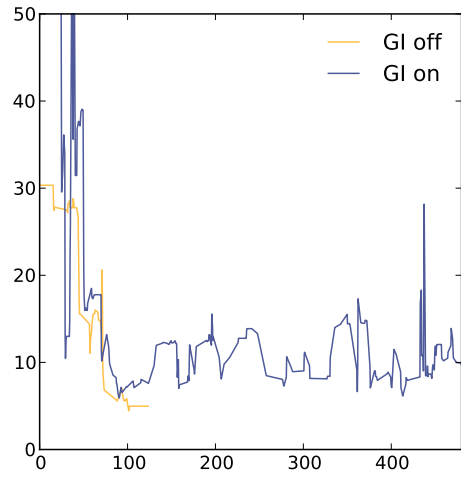
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



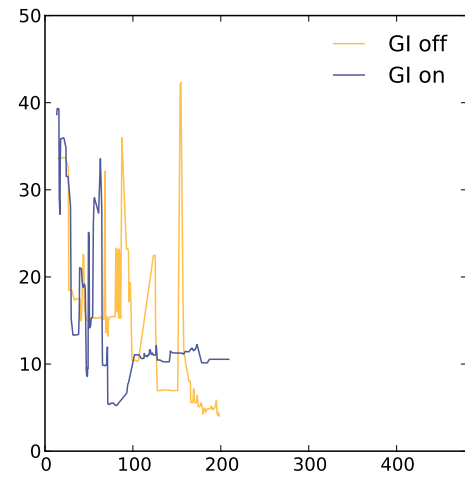
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



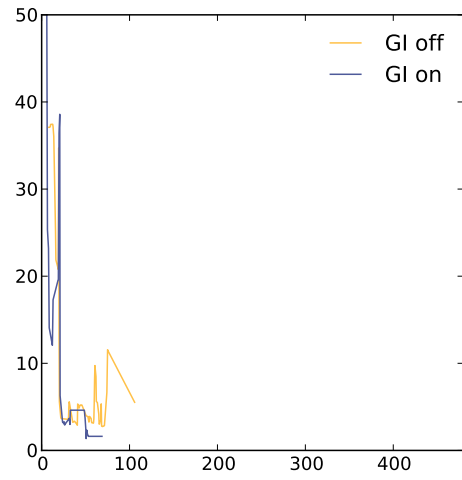
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



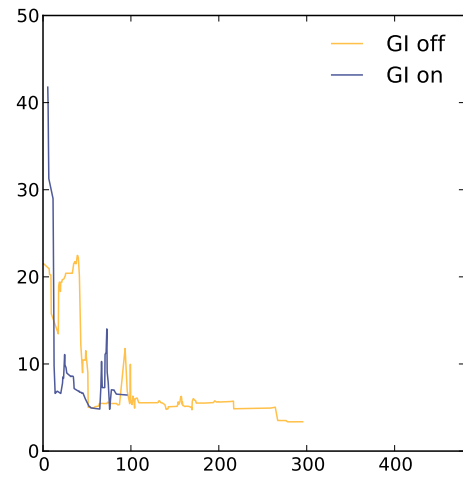
Subject's result - GI on



Target image - GI on



CIELAB error in time



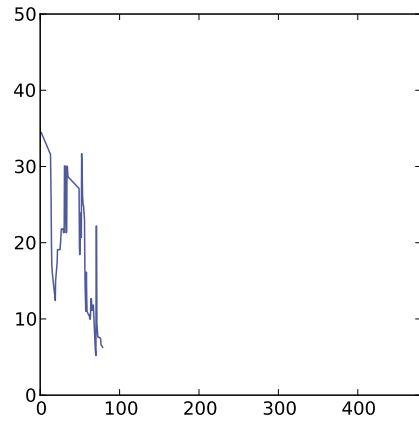
Experiment 3

Cartoon scene

Subject's result

Target image

CIELAB error in time

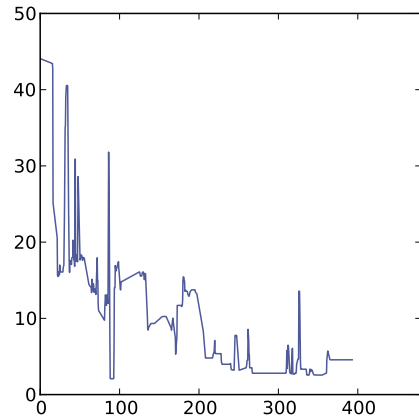


Architecture scene

Subject's result

Target image

CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 2 Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



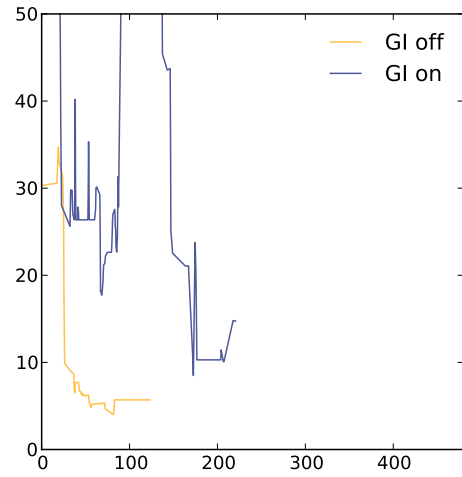
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



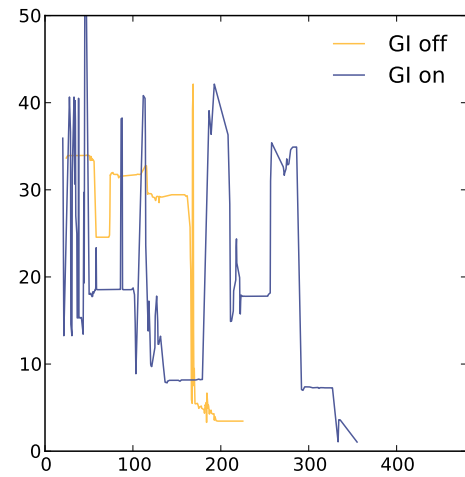
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



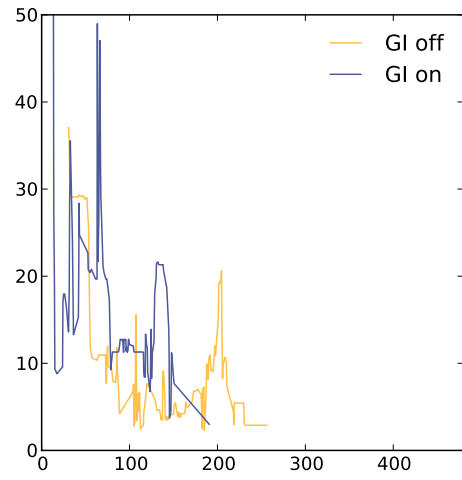
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



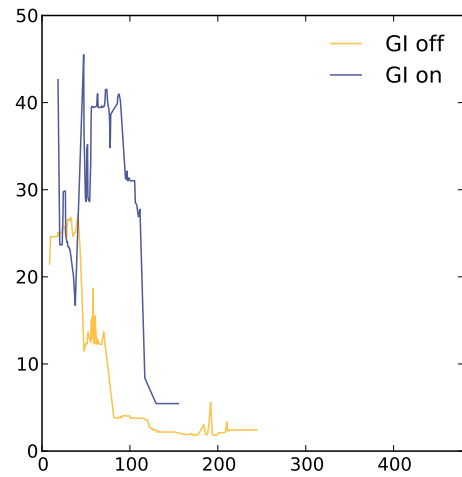
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

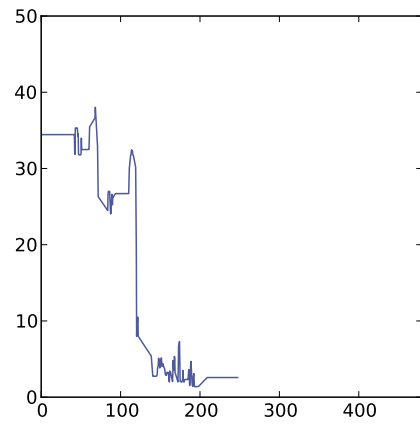
Subject's result



Target image



CIELAB error in time



Architecture scene

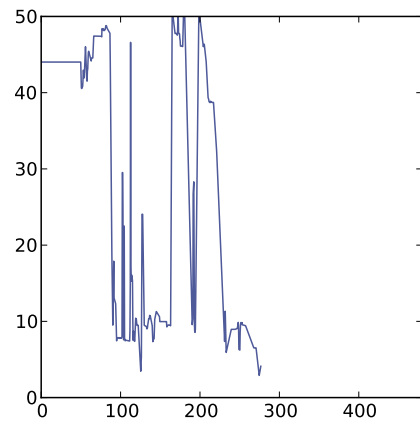
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

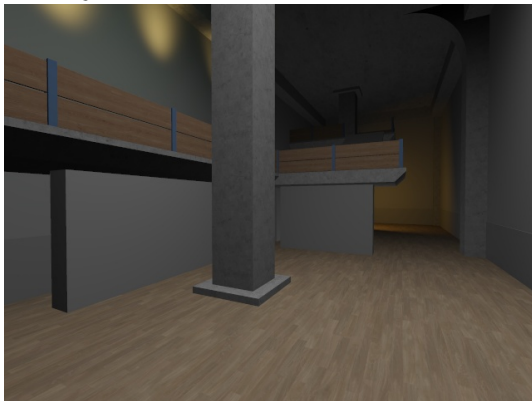
Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 3 Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



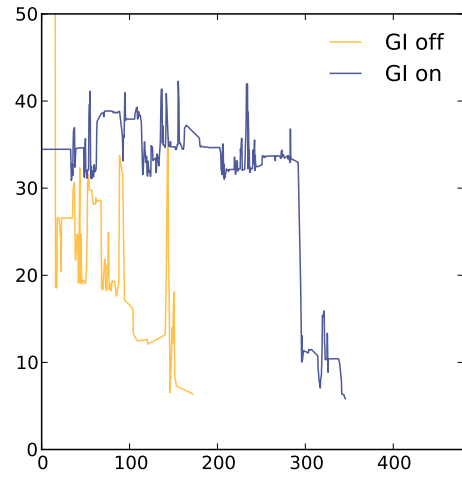
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



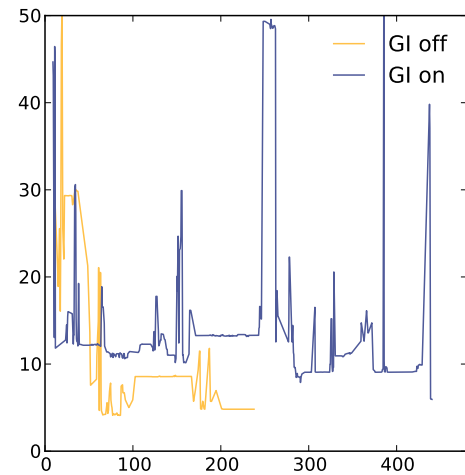
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



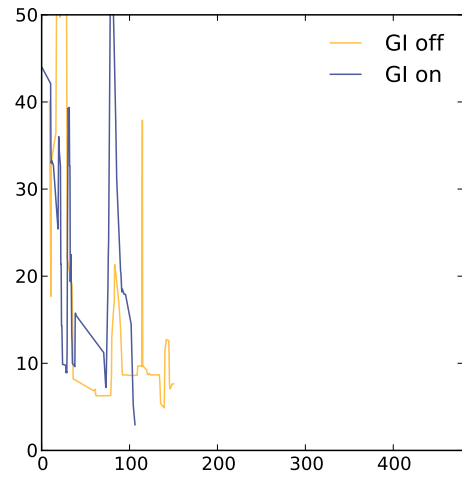
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



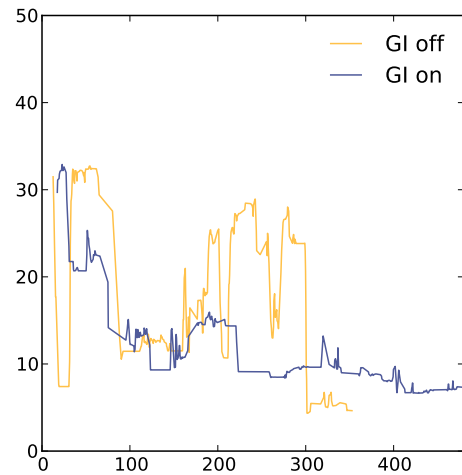
Subject's result - GI on



Target image - GI on



CIELAB error in time



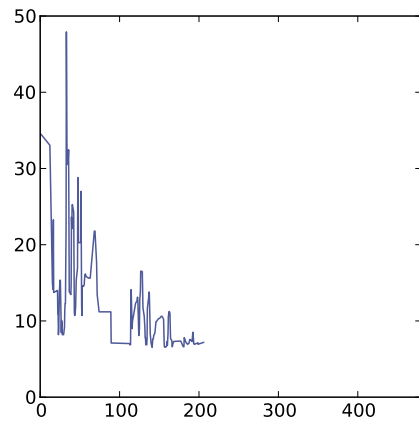
Experiment 3

Cartoon scene

Subject's result

Target image

CIELAB error in time

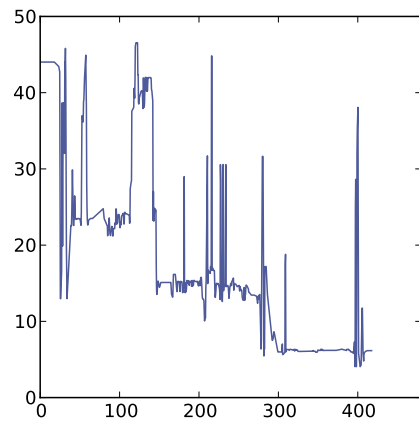


Architecture scene

Subject's result

Target image

CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 4 Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



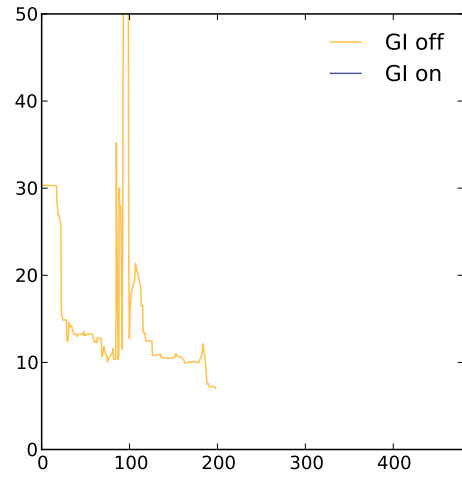
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



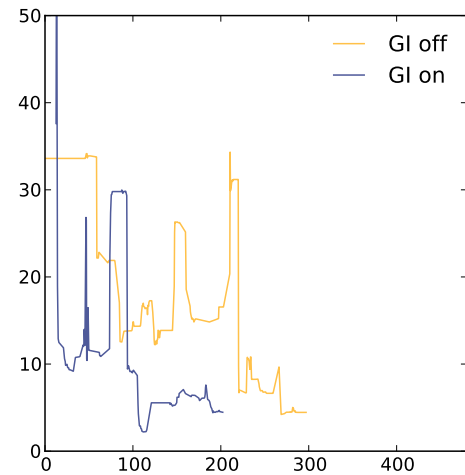
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



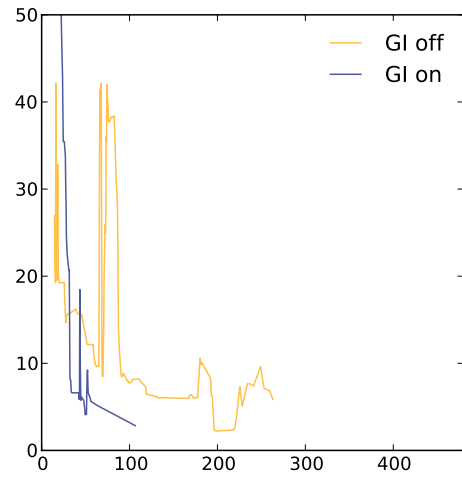
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



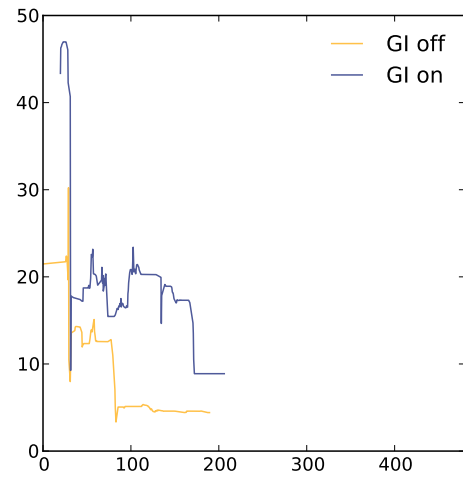
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

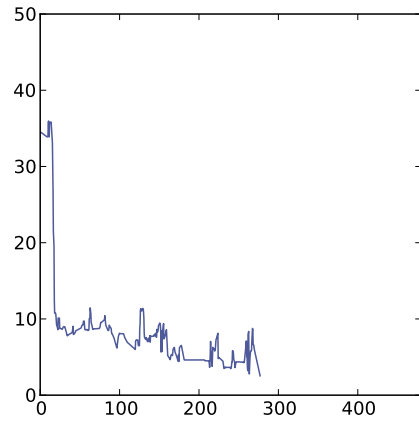
Subject's result



Target image



CIELAB error in time



Architecture scene

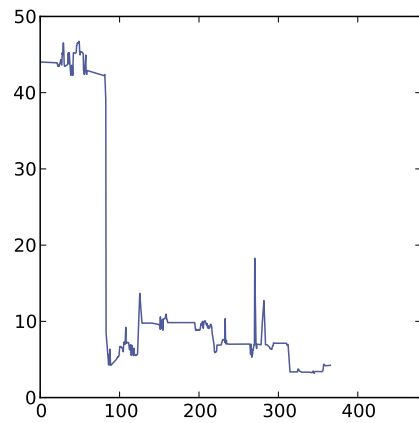
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene Target image - Cartoon scene



Subject's result - Architecture scene

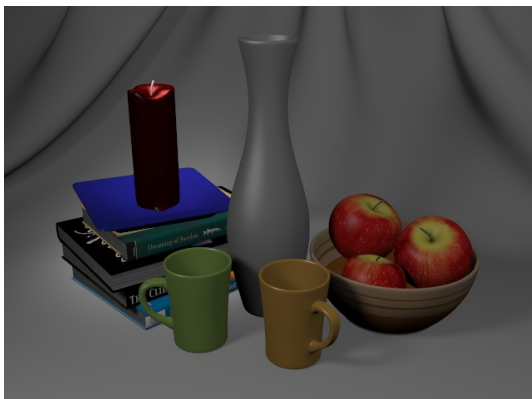
Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 5 Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



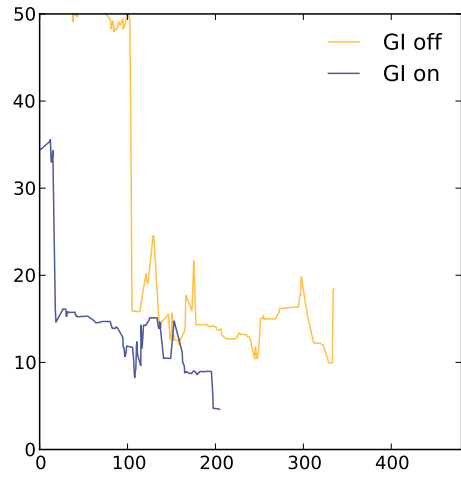
Subject's result - GI on



Target image - GI on



CIELAB error in time

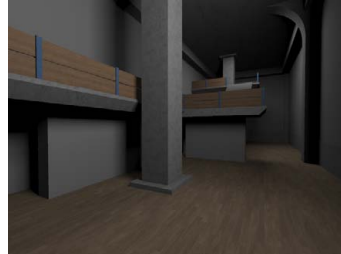


Architecture scene

Subject's result - GI off



Target image - GI off



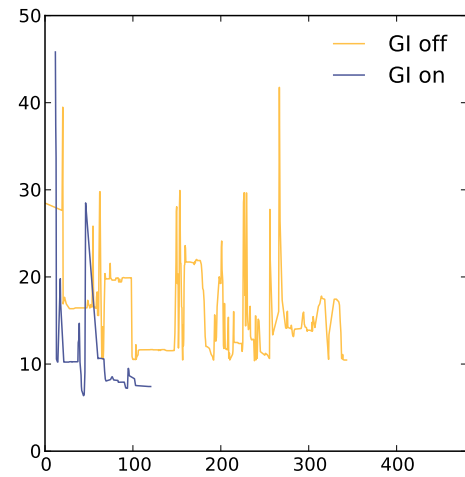
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



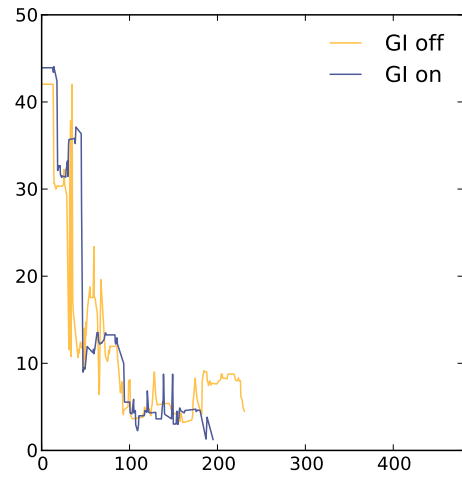
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



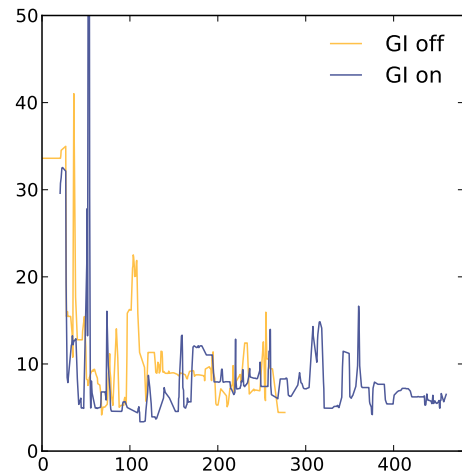
Subject's result - GI on



Target image - GI on



CIELAB error in time



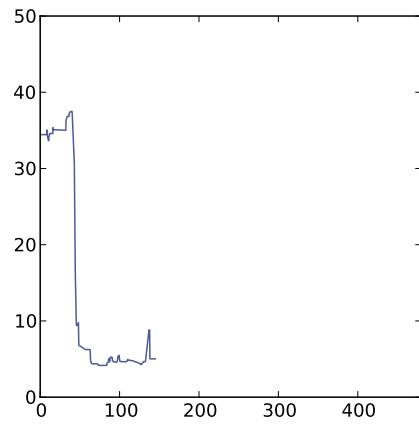
Experiment 3

Cartoon scene

Subject's result

Target image

CIELAB error in time

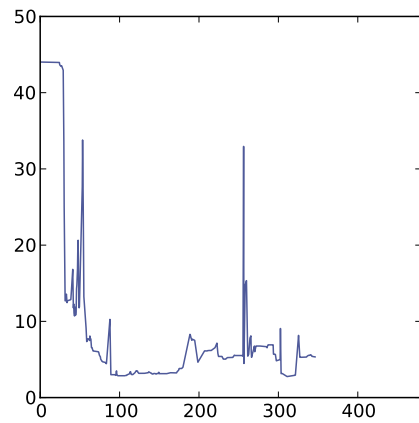


Architecture scene

Subject's result

Target image

CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

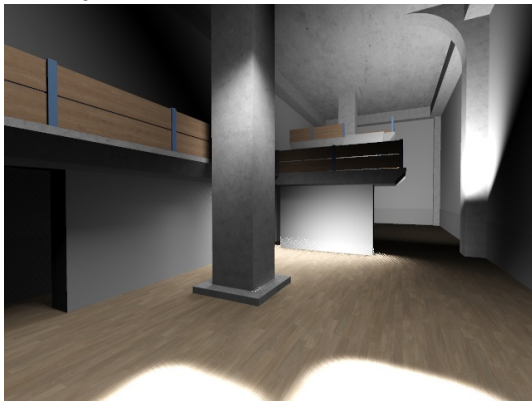
Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Experiment 5

Subject's result - Still life scene



Subject's result - Office scene



Subject 6 Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



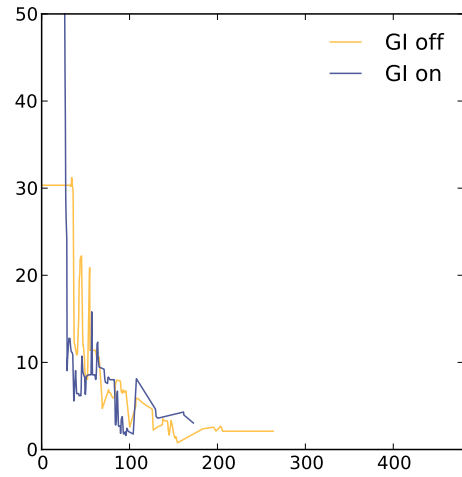
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



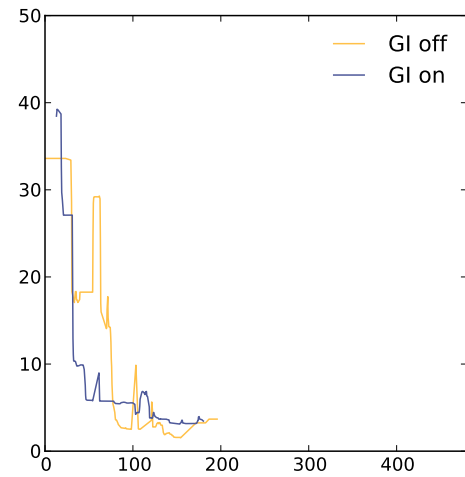
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



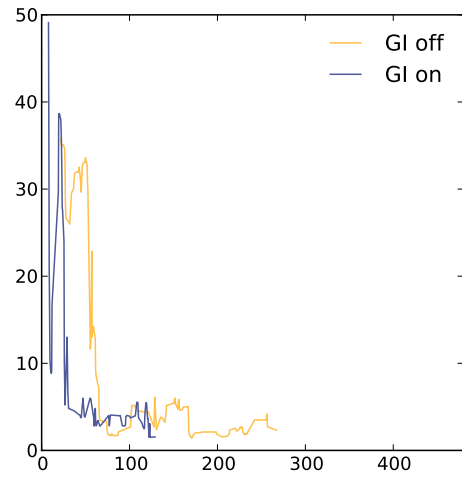
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



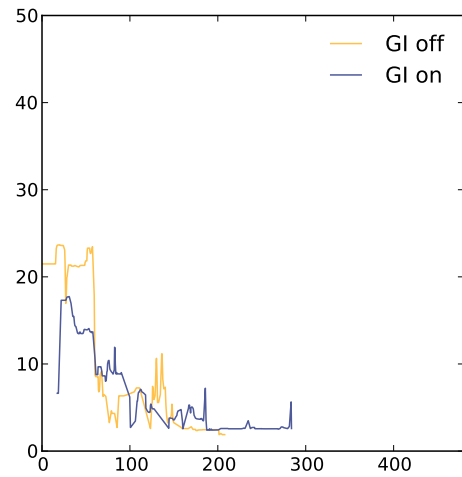
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

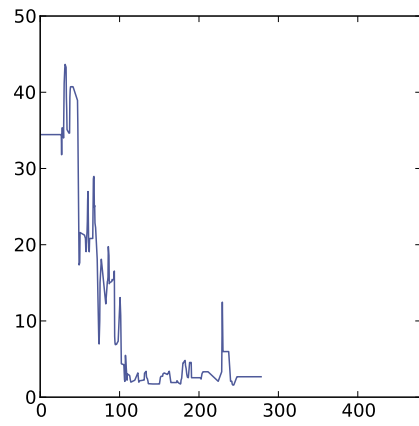
Subject's result



Target image



CIELAB error in time



Architecture scene

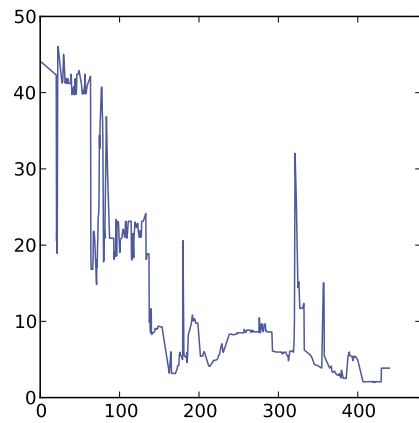
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene Target image - Cartoon scene



Subject's result - Architecture scene

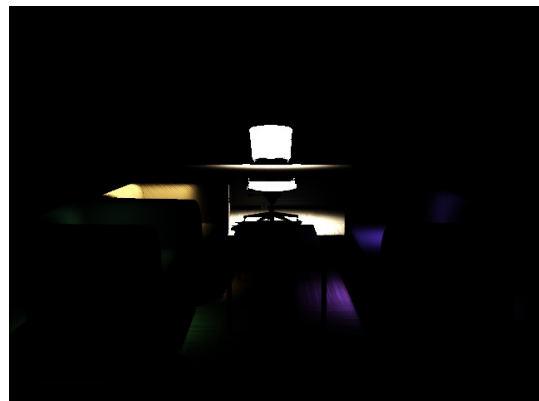
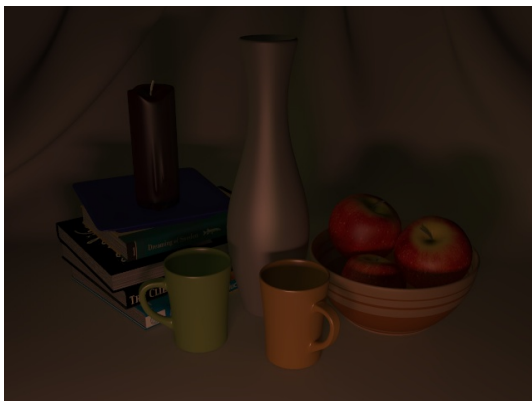
Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 7 Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



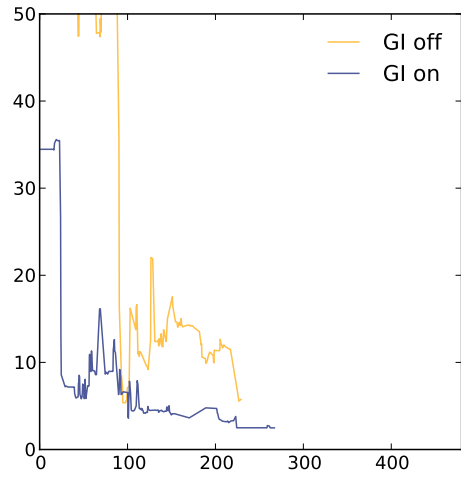
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



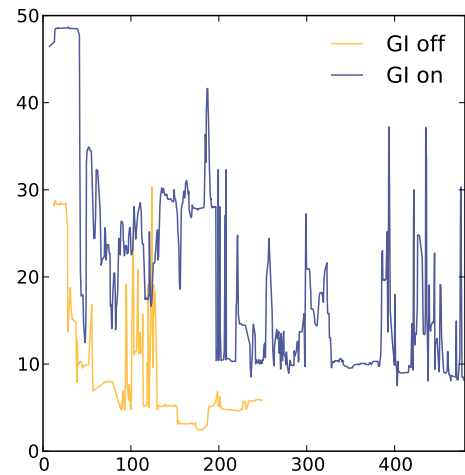
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



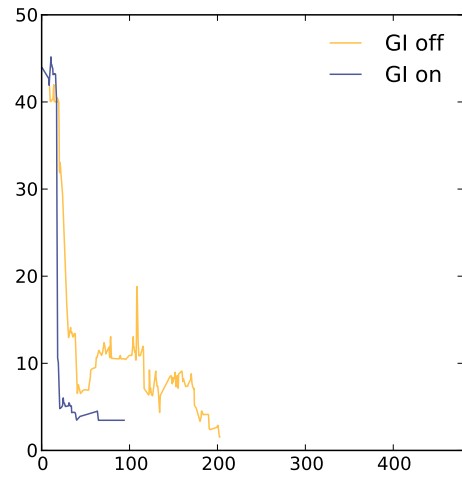
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



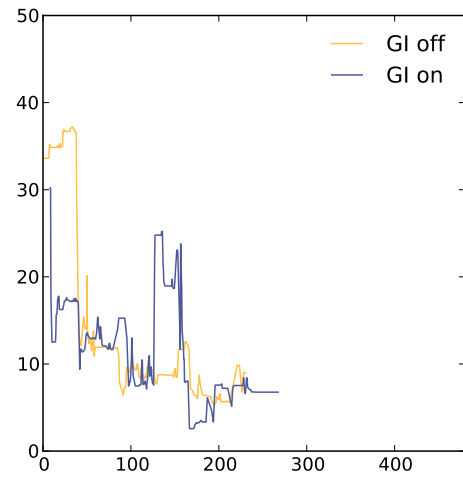
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

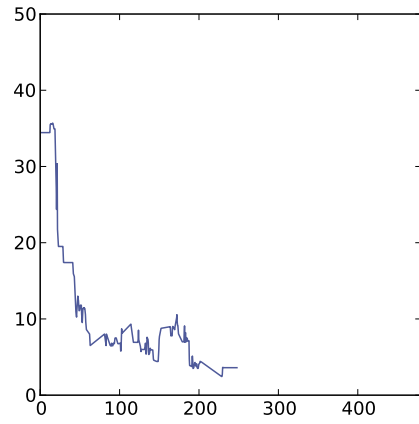
Subject's result



Target image



CIELAB error in time



Architecture scene

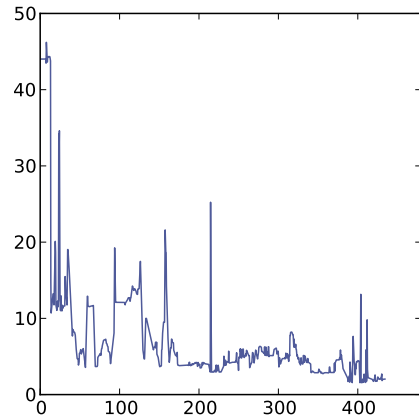
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

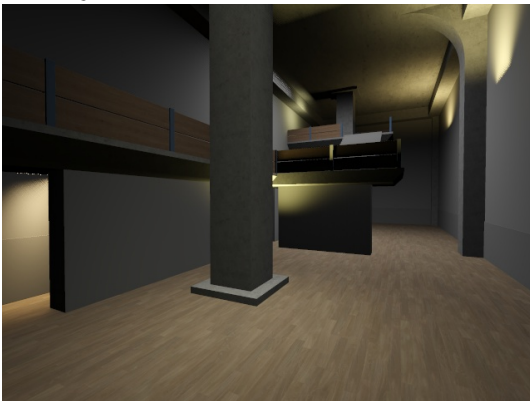
Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

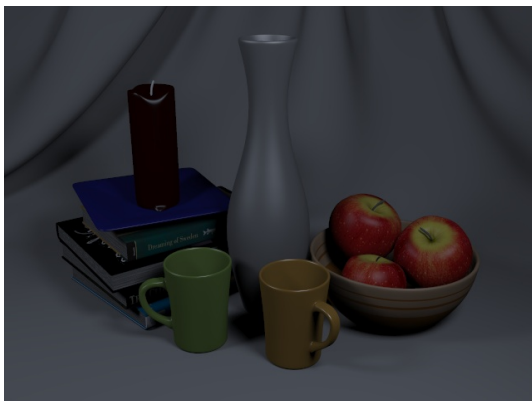


Target image - Architecture scene



Experiment 5

Subject's result - Still life scene



Subject's result - Office scene



Subject 8 Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



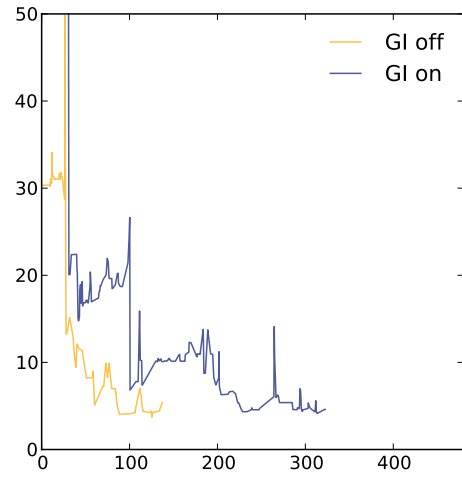
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



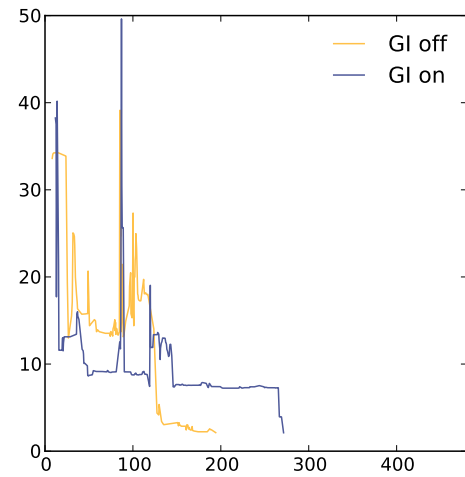
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



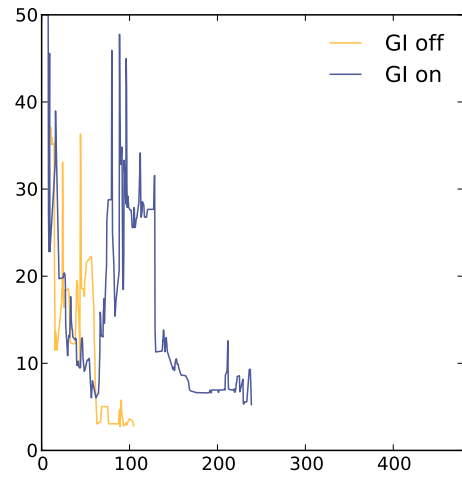
Subject's result - GI on



Target image - GI on

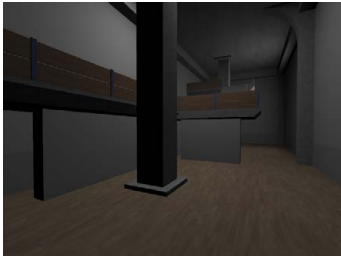


CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



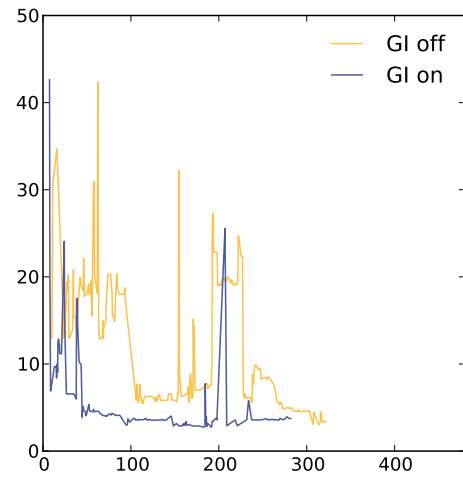
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

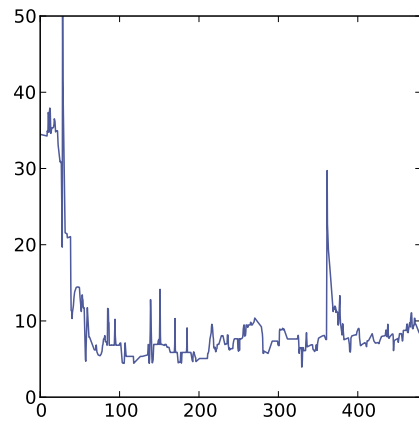
Subject's result



Target image



CIELAB error in time



Architecture scene

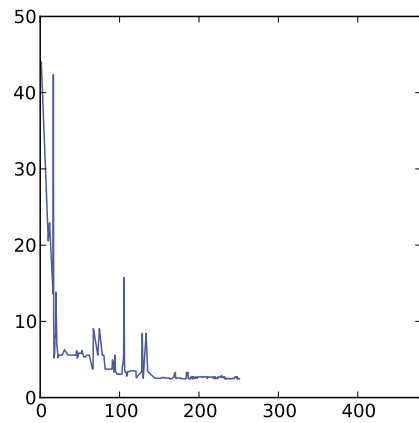
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

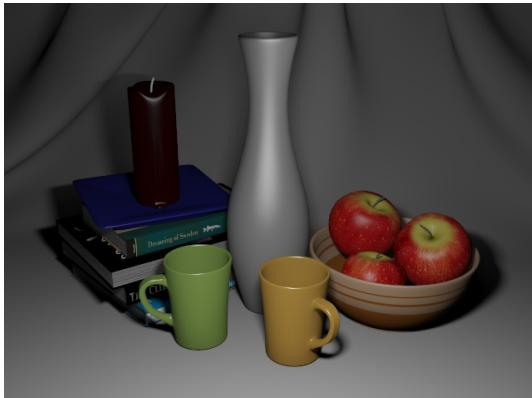
Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 9 Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



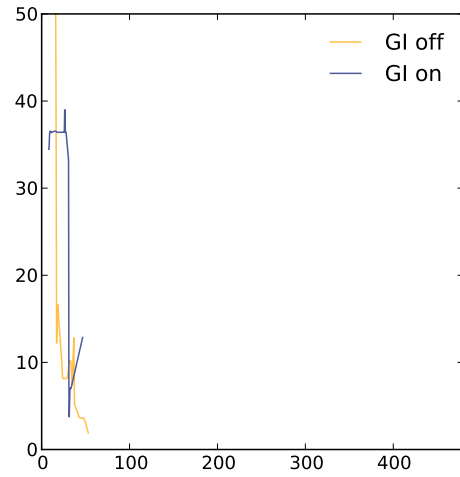
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



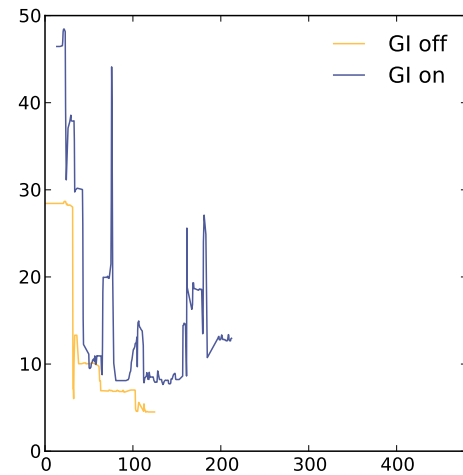
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



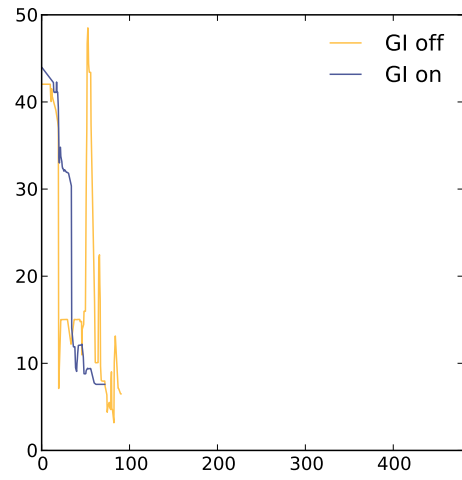
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



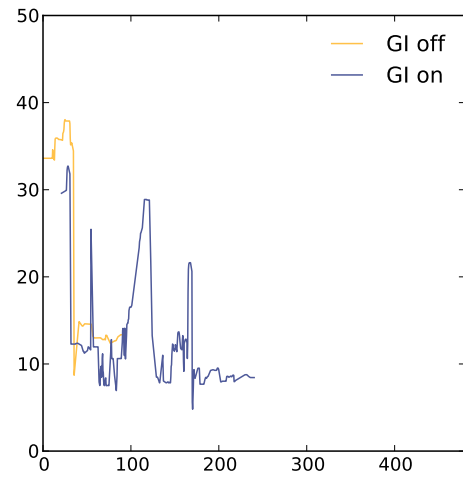
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

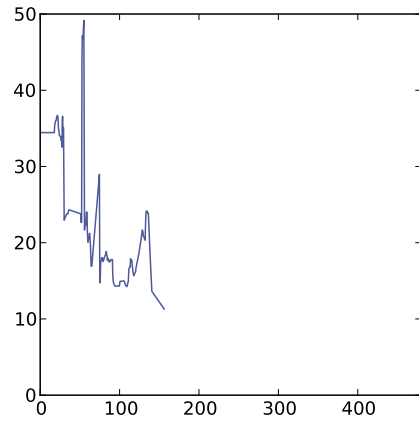
Subject's result



Target image



CIELAB error in time



Architecture scene

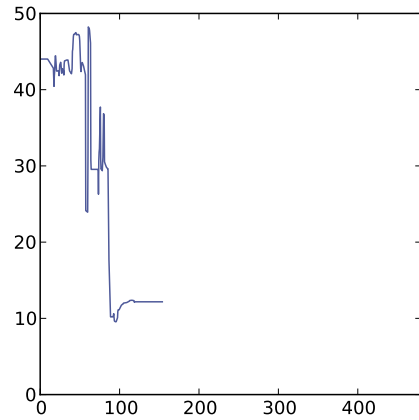
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 10

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



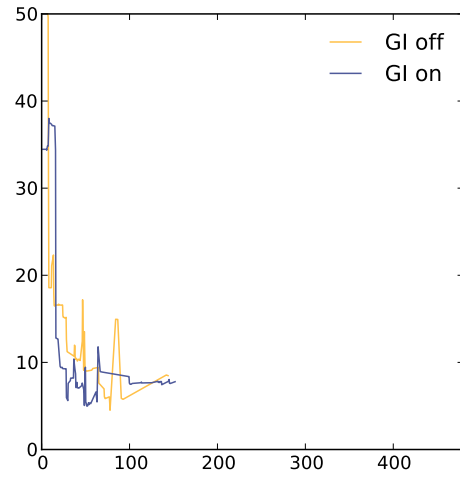
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



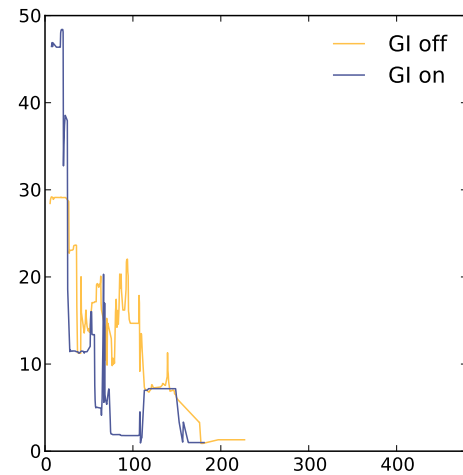
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



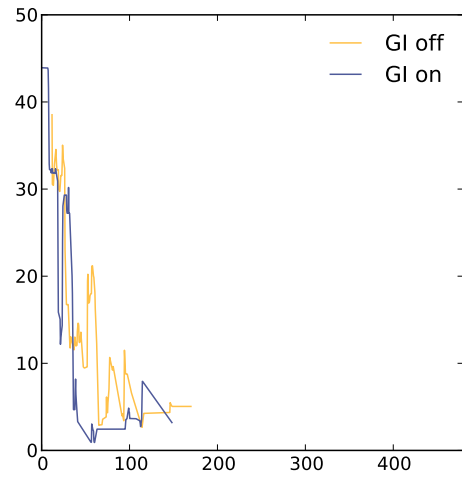
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



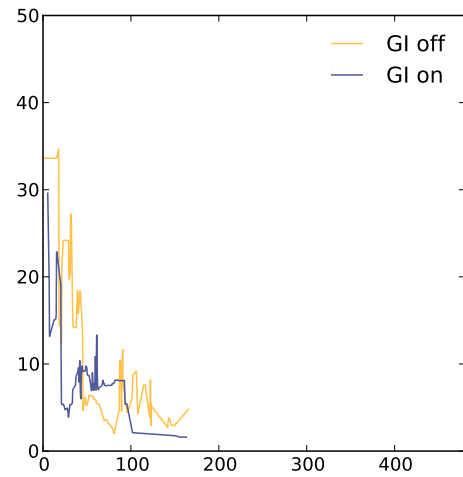
Subject's result - GI on



Target image - GI on



CIELAB error in time



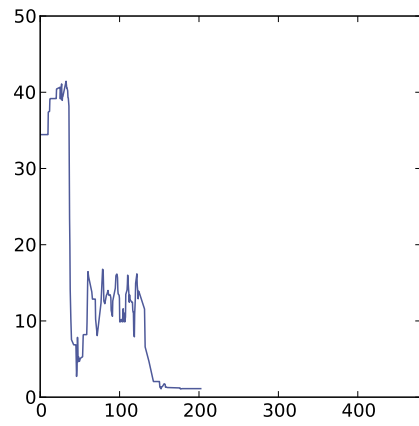
Experiment 3

Cartoon scene

Subject's result

Target image

CIELAB error in time

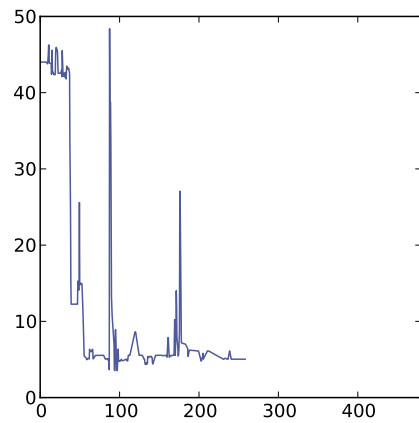


Architecture scene

Subject's result

Target image

CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

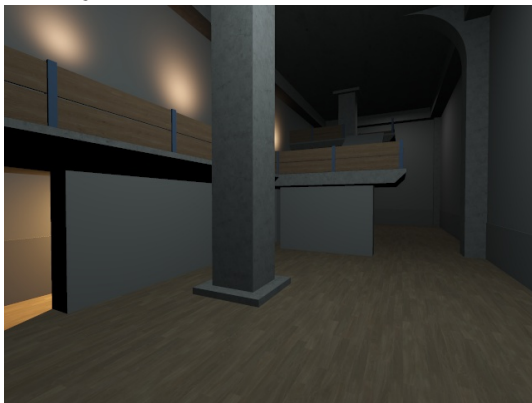
Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 11

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



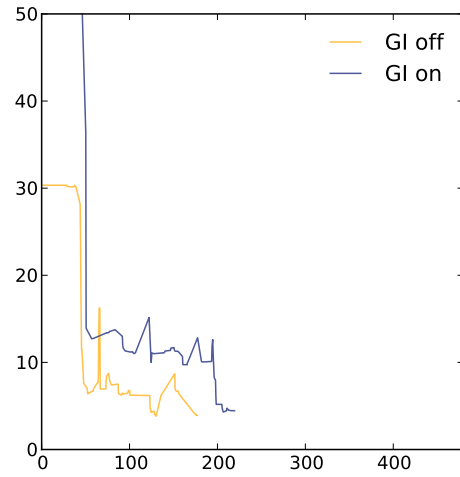
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



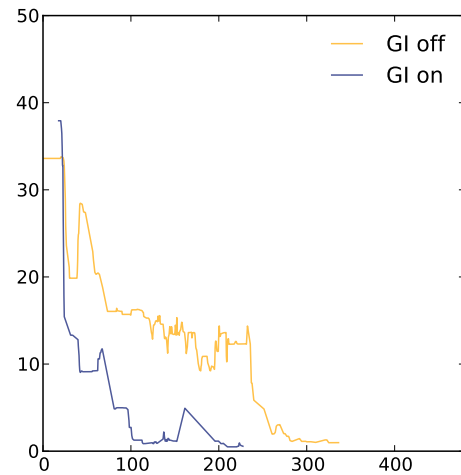
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



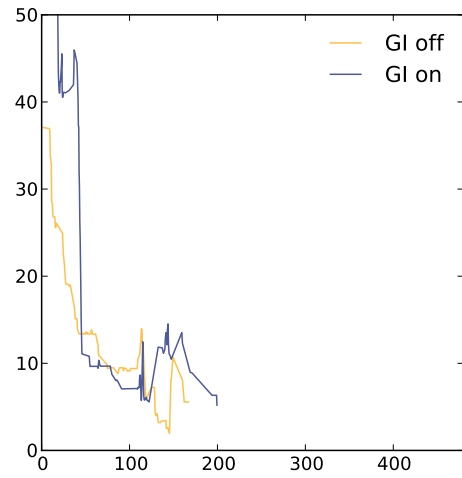
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



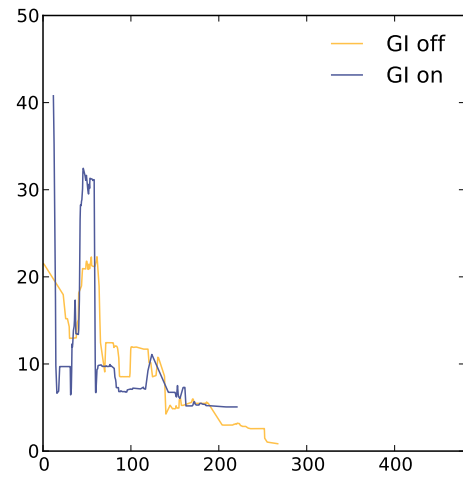
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

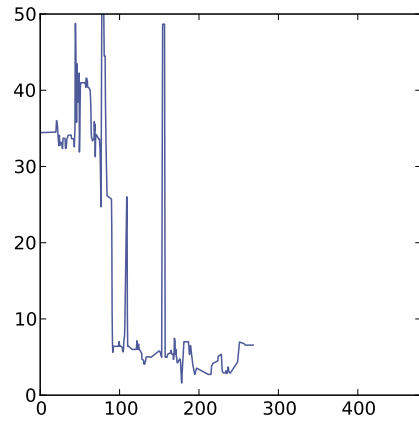
Subject's result



Target image



CIELAB error in time



Architecture scene

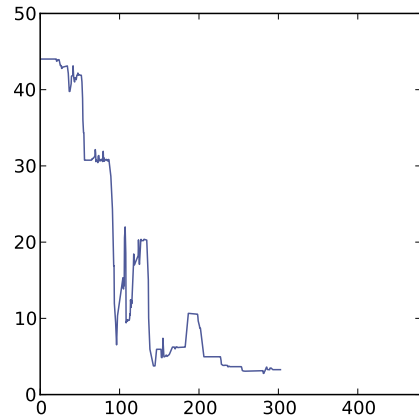
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 12

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



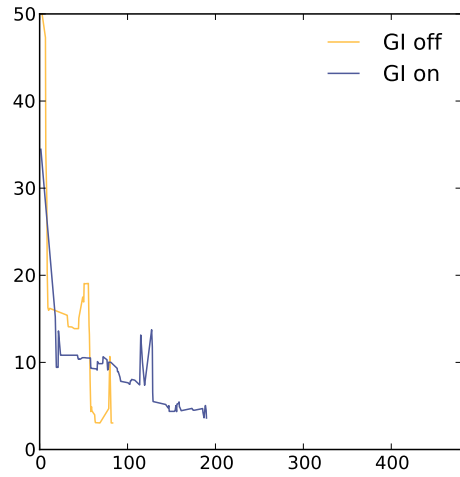
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



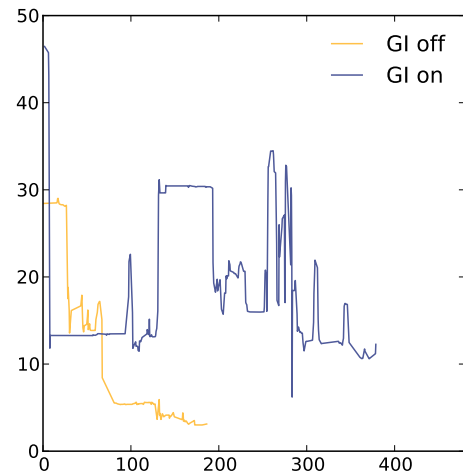
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



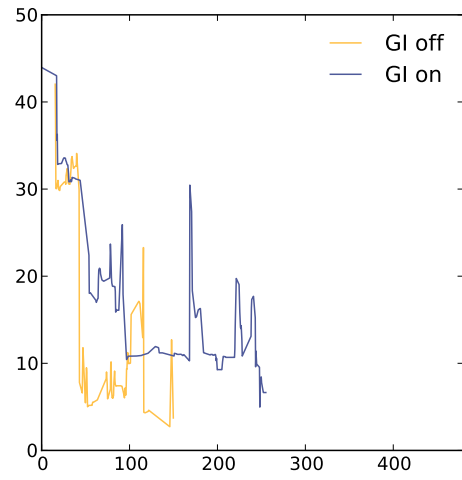
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



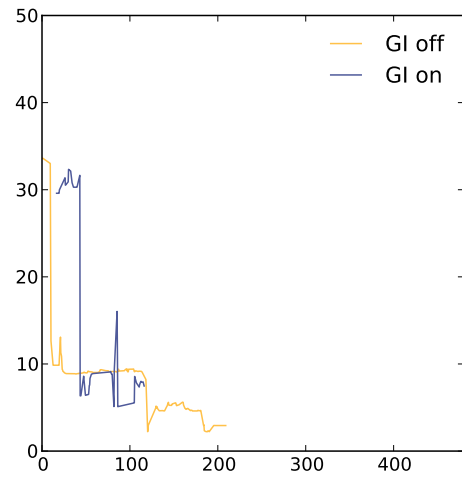
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

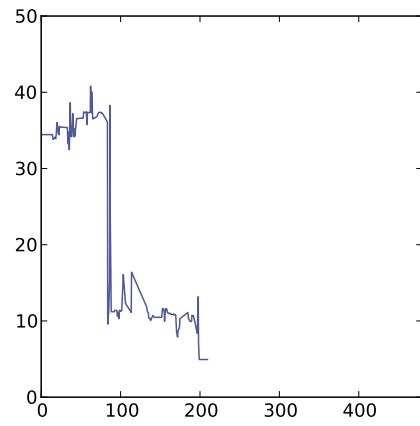
Subject's result



Target image



CIELAB error in time



Architecture scene

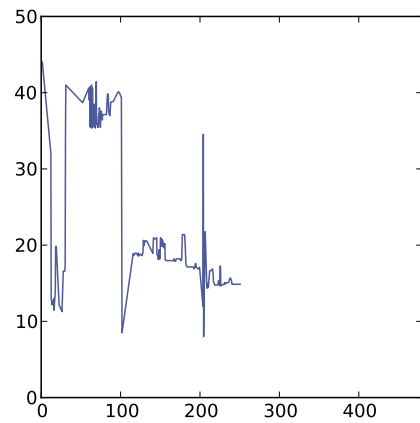
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Experiment 5

Subject's result - Still life scene



Subject's result - Office scene



Subject 13

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



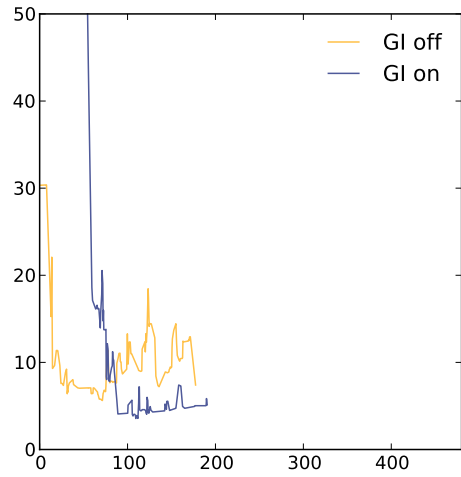
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



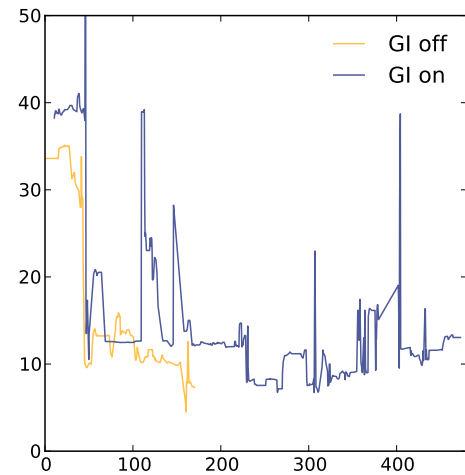
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



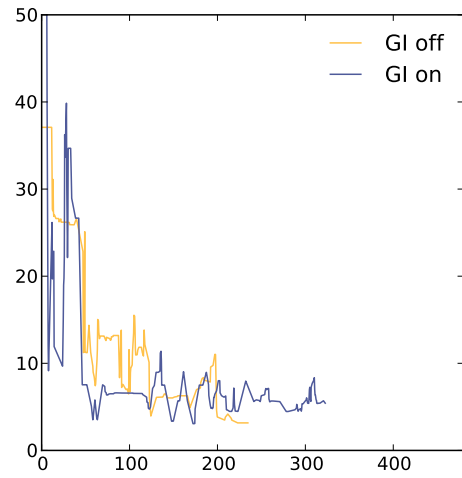
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



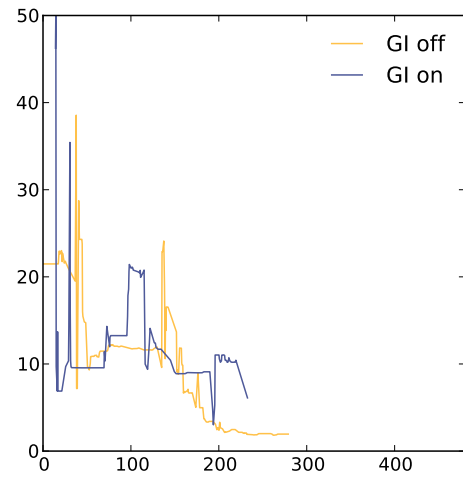
Subject's result - GI on



Target image - GI on



CIELAB error in time



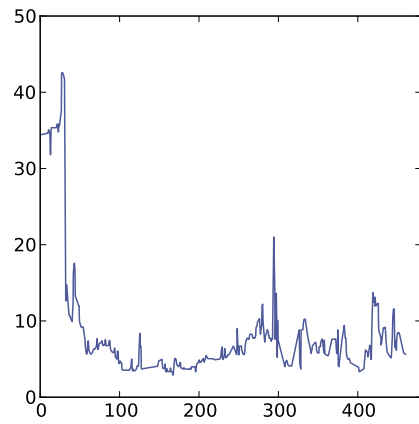
Experiment 3

Cartoon scene

Subject's result

Target image

CIELAB error in time

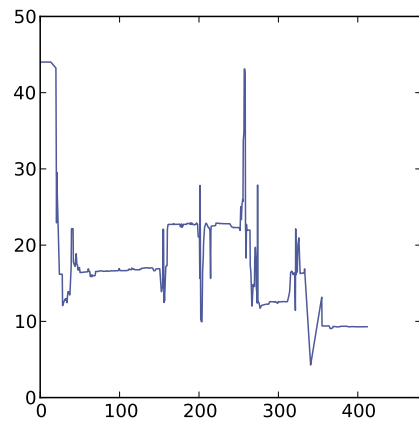


Architecture scene

Subject's result

Target image

CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Experiment 5

Subject's result - Still life scene



Subject's result - Office scene



Subject 14

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



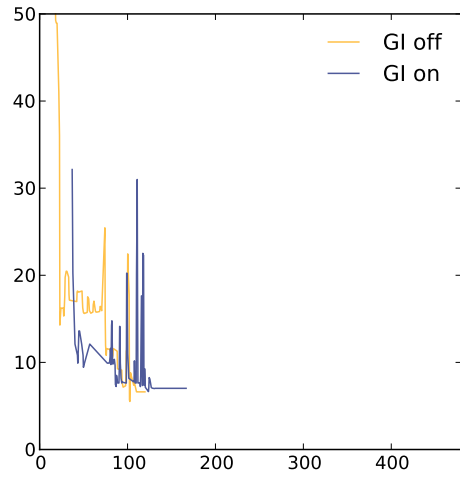
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



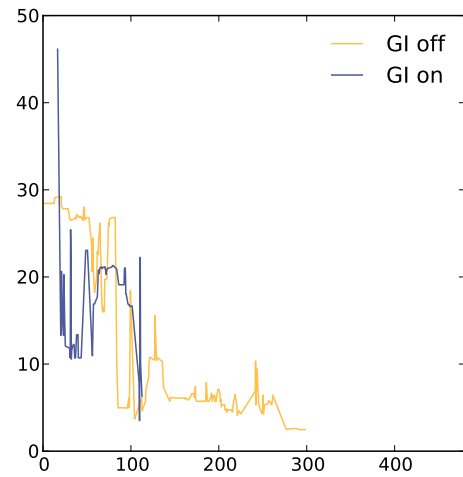
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



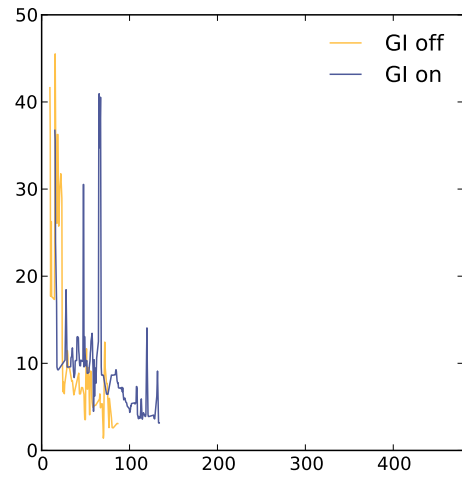
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



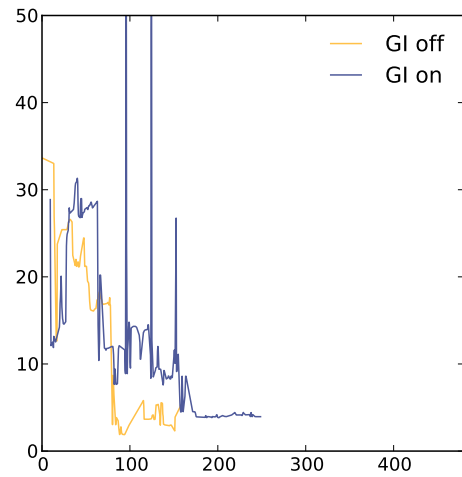
Subject's result - GI on



Target image - GI on



CIELAB error in time



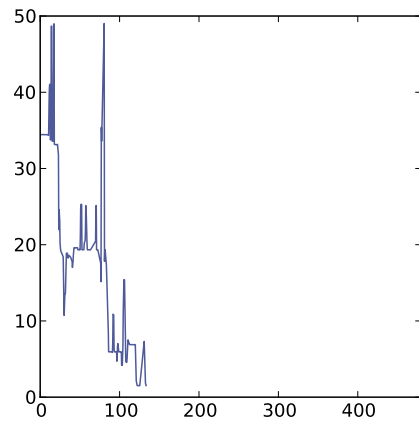
Experiment 3

Cartoon scene

Subject's result

Target image

CIELAB error in time

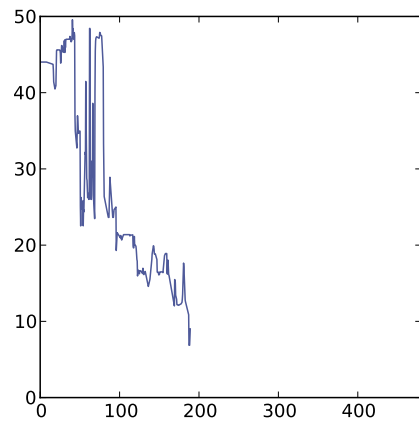


Architecture scene

Subject's result

Target image

CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



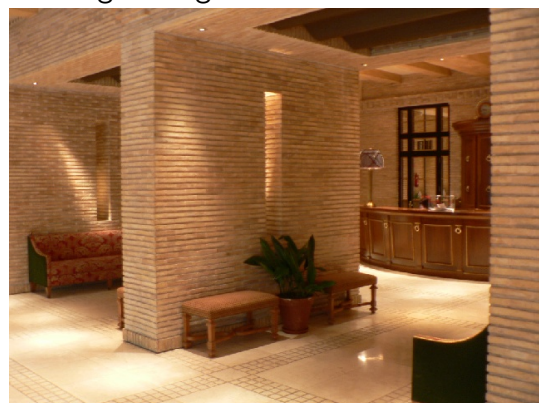
Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



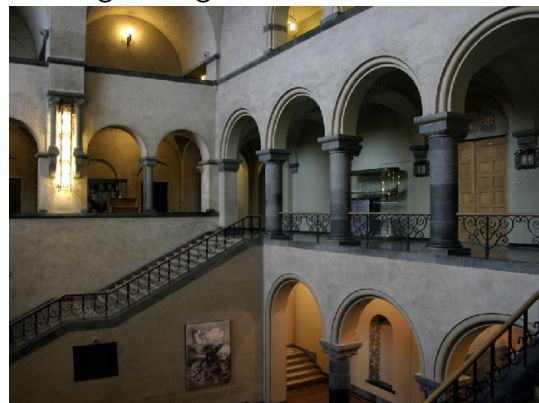
Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 15

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



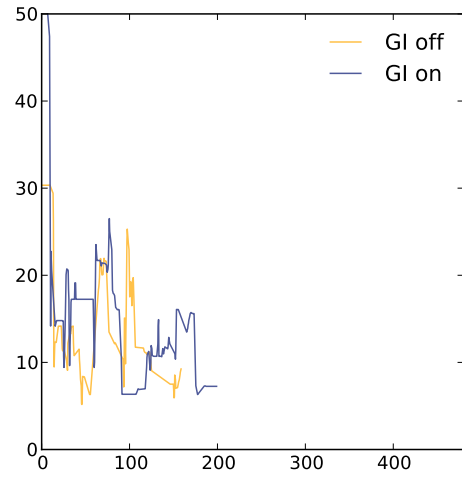
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



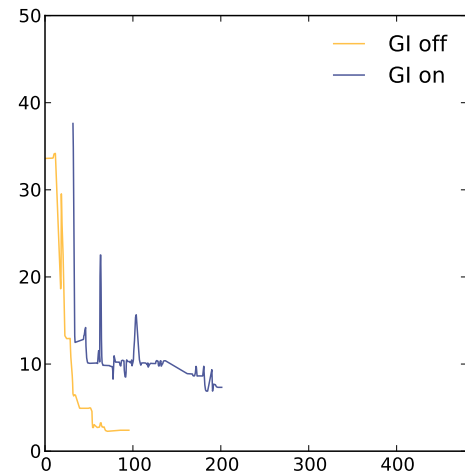
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



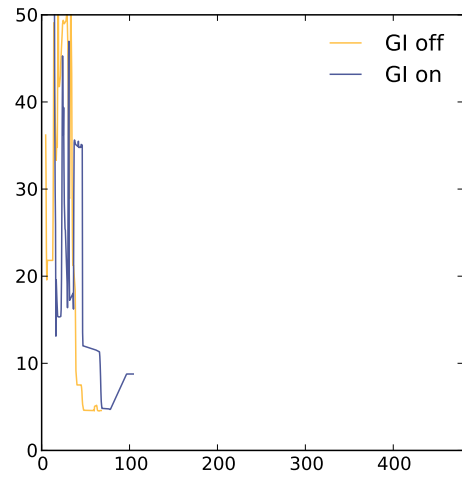
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



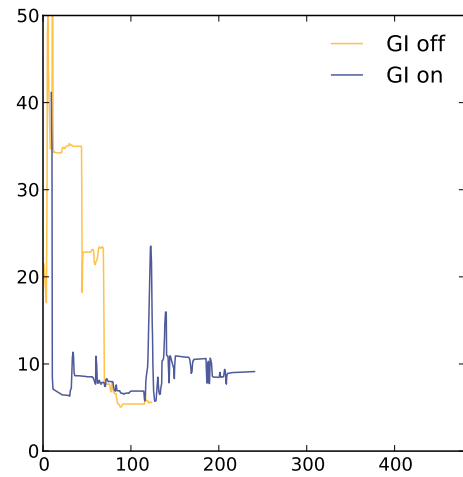
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

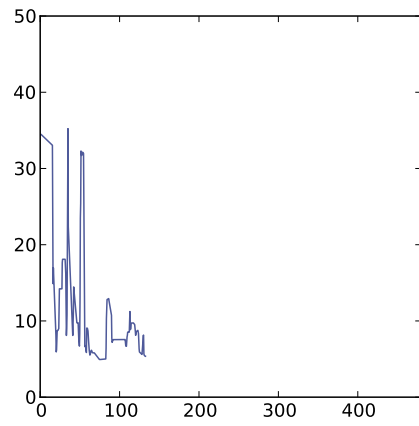
Subject's result



Target image



CIELAB error in time



Architecture scene

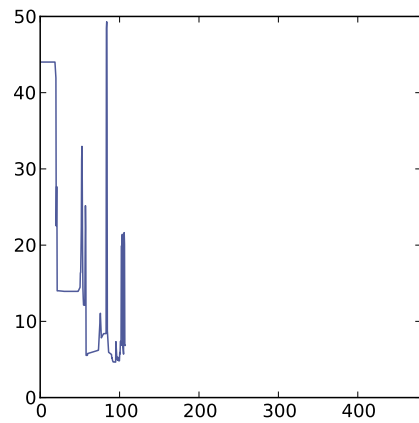
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 16

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



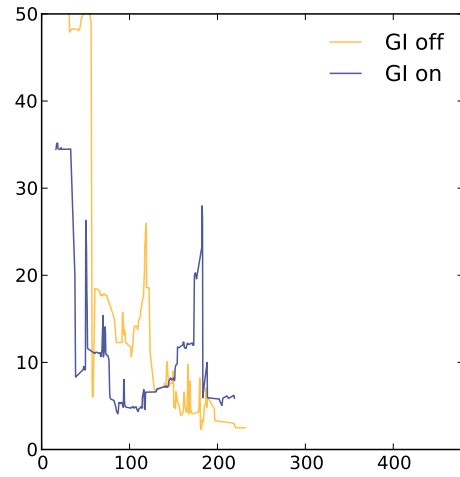
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



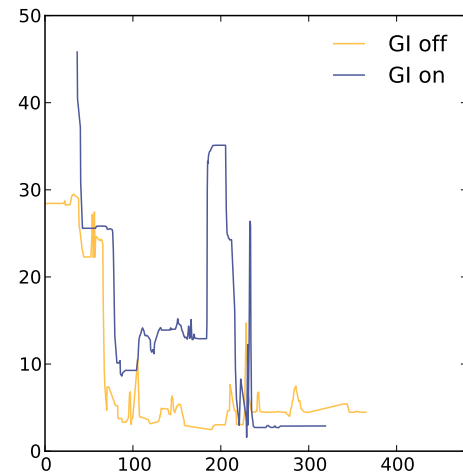
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



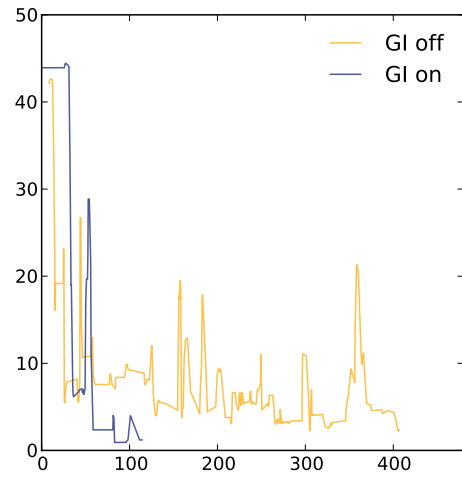
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



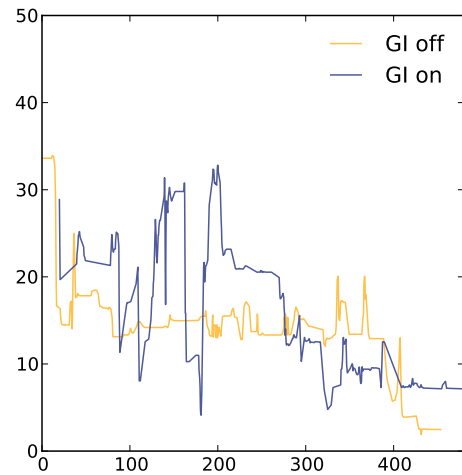
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

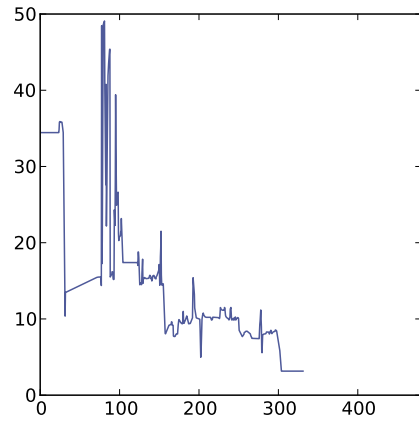
Subject's result



Target image



CIELAB error in time



Architecture scene

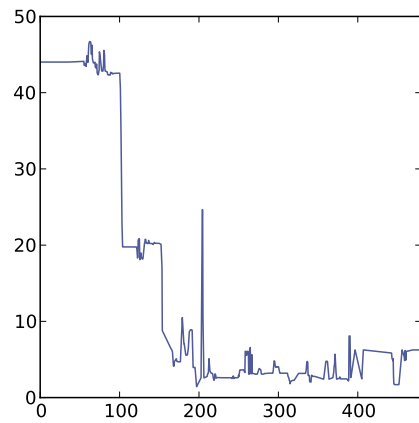
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene

Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene

Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 17

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



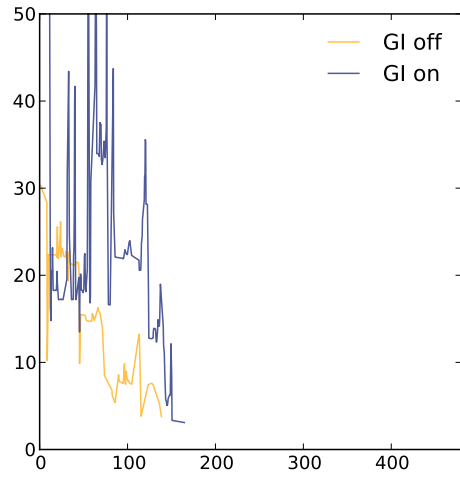
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



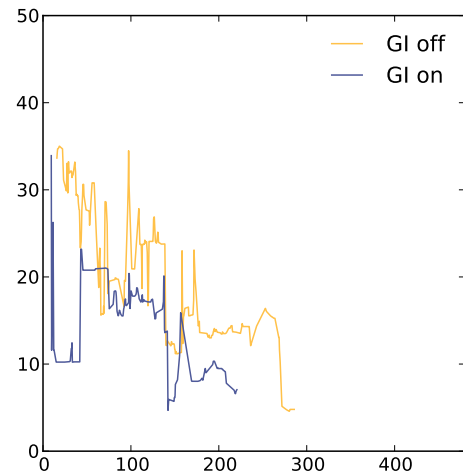
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



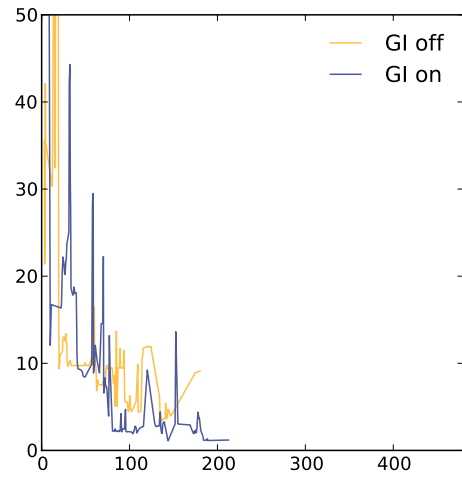
Subject's result - GI on



Target image - GI on

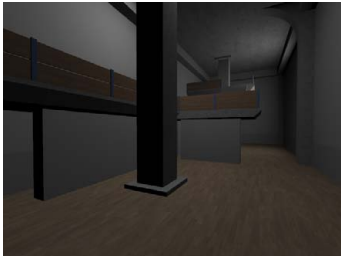


CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



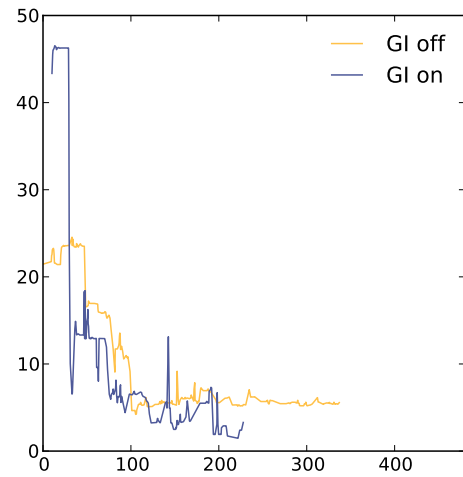
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

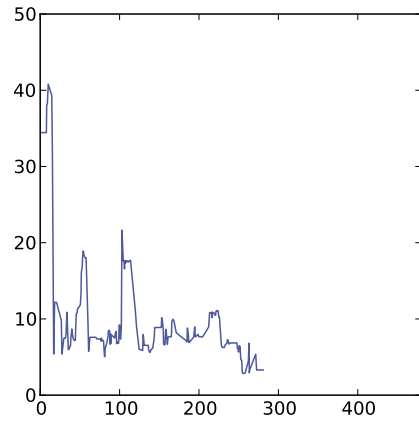
Subject's result



Target image



CIELAB error in time



Architecture scene

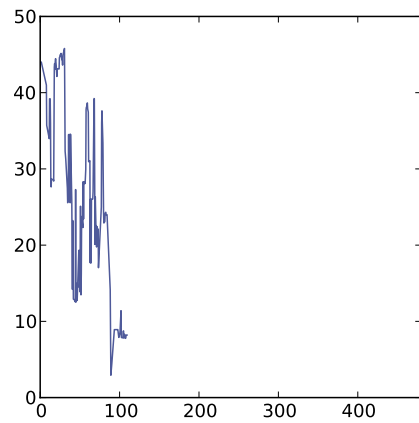
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 18

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



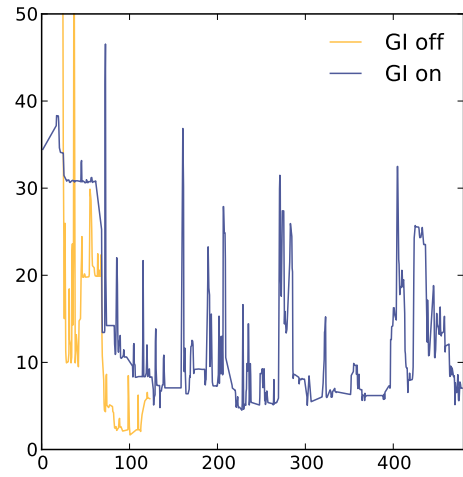
Subject's result - GI on



Target image - GI on



CIELAB error in time

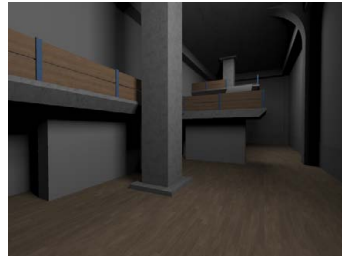


Architecture scene

Subject's result - GI off



Target image - GI off



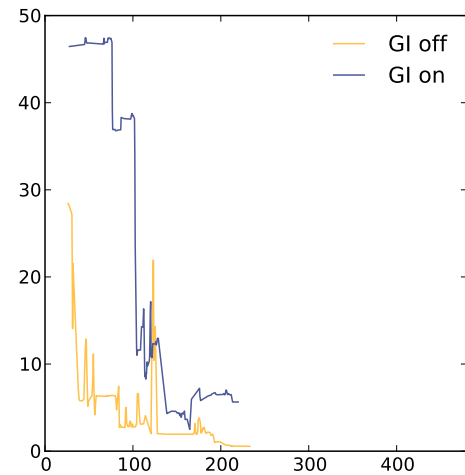
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



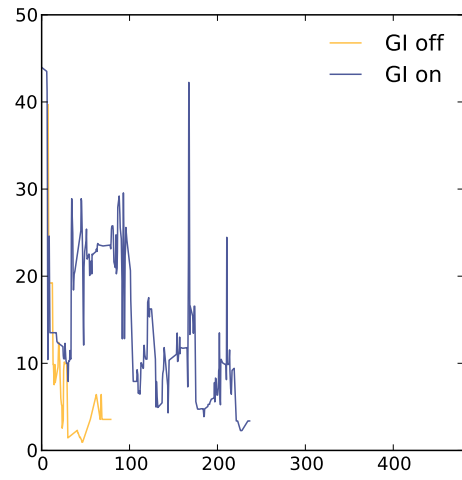
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



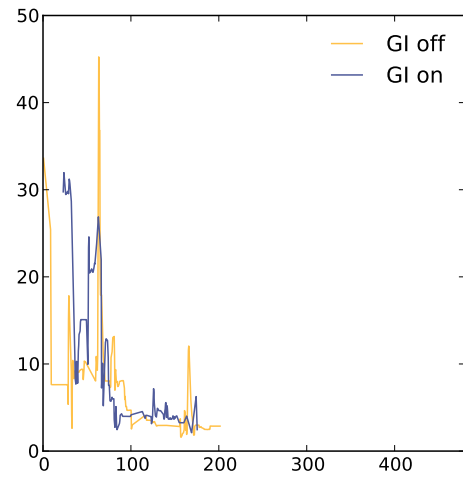
Subject's result - GI on



Target image - GI on



CIELAB error in time



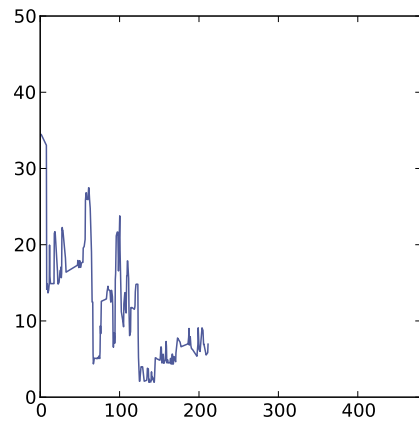
Experiment 3

Cartoon scene

Subject's result

Target image

CIELAB error in time

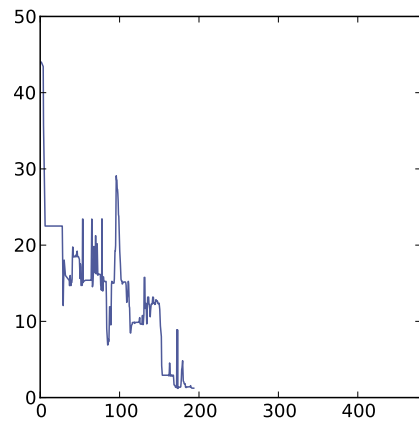


Architecture scene

Subject's result

Target image

CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

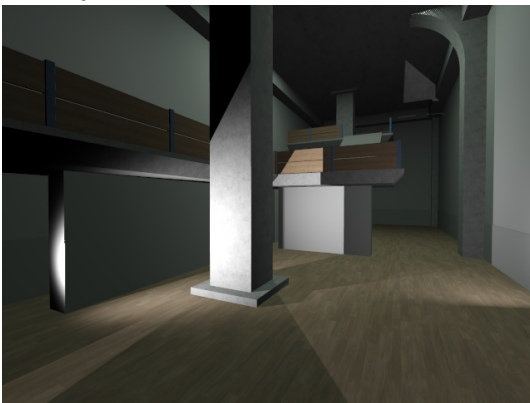
Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

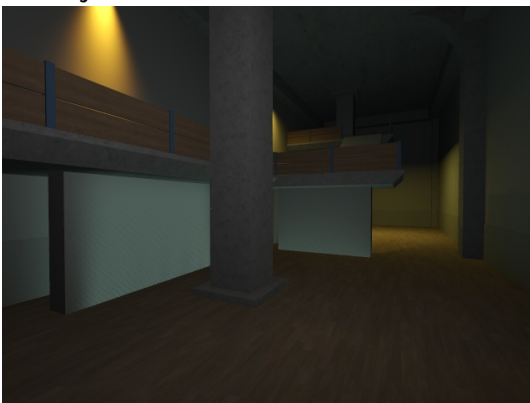
Subject's result - Cartoon scene



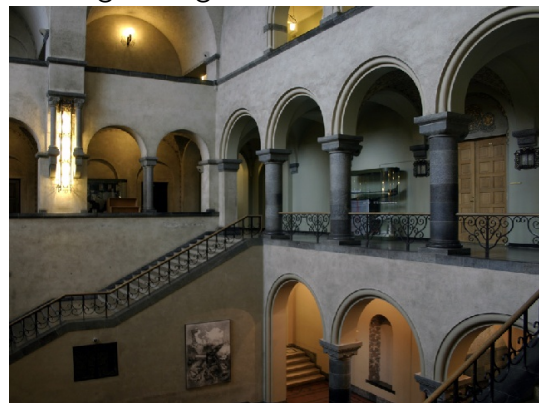
Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 19

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



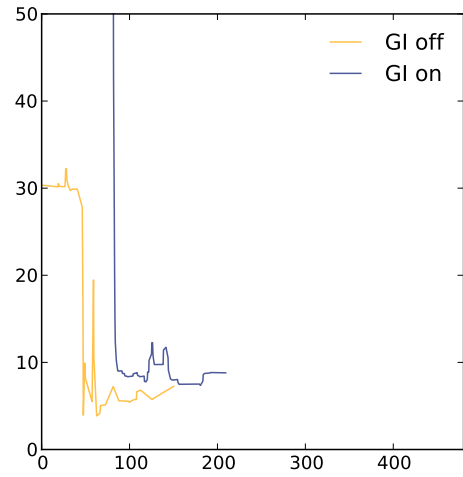
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



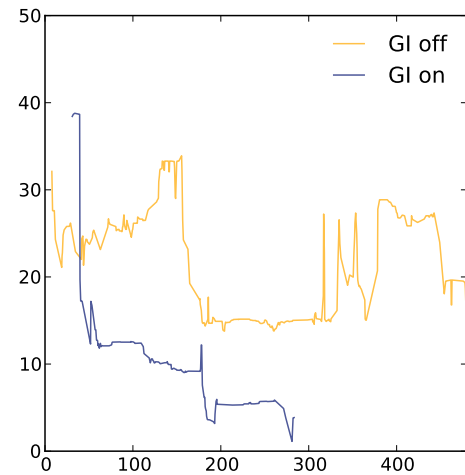
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



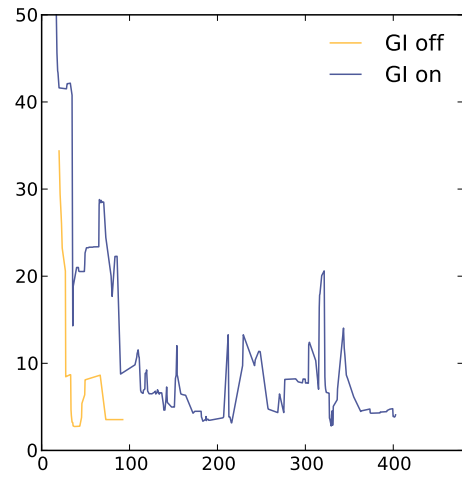
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



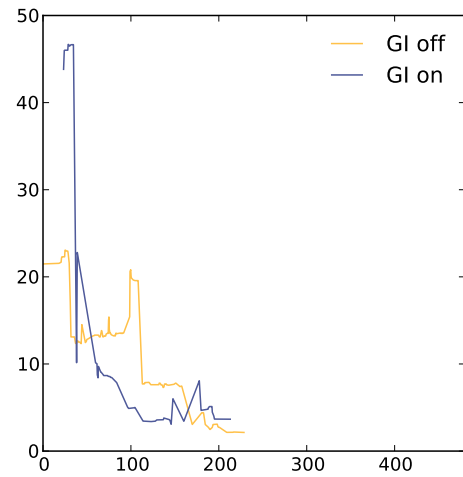
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

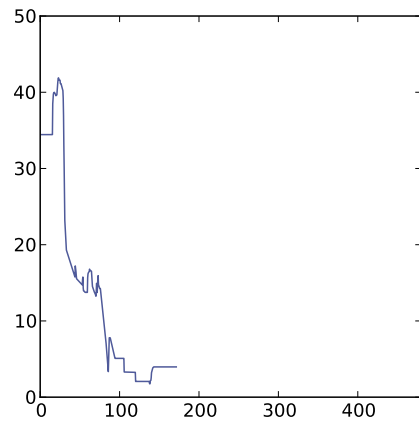
Subject's result



Target image



CIELAB error in time



Architecture scene

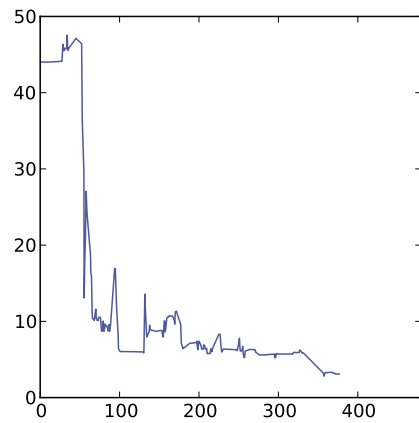
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

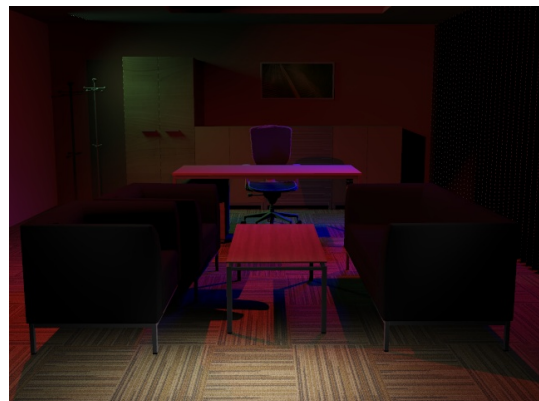
Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 20 Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



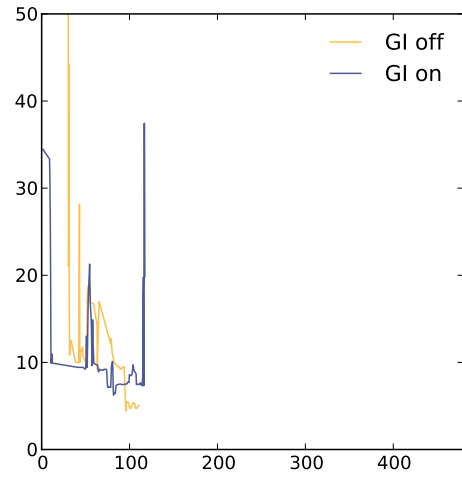
Subject's result - GI on



Target image - GI on



CIELAB error in time

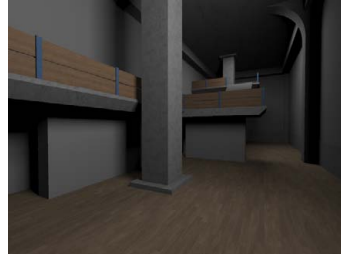


Architecture scene

Subject's result - GI off



Target image - GI off



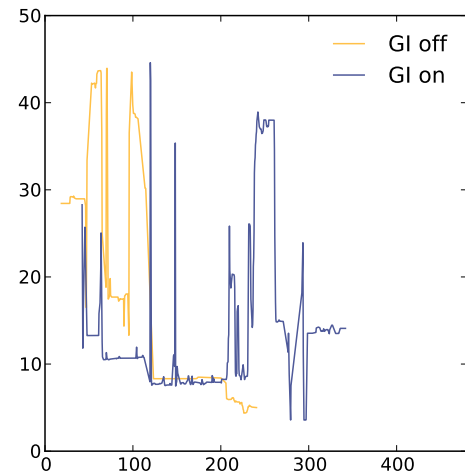
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



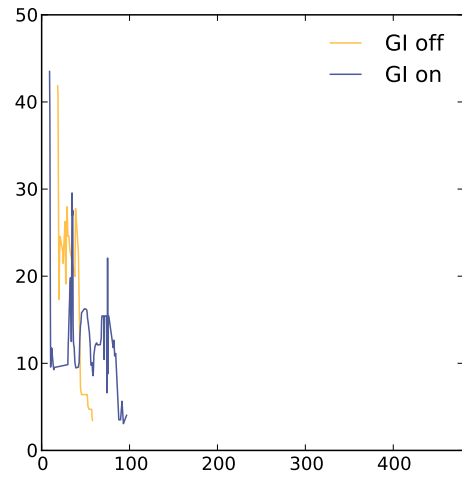
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



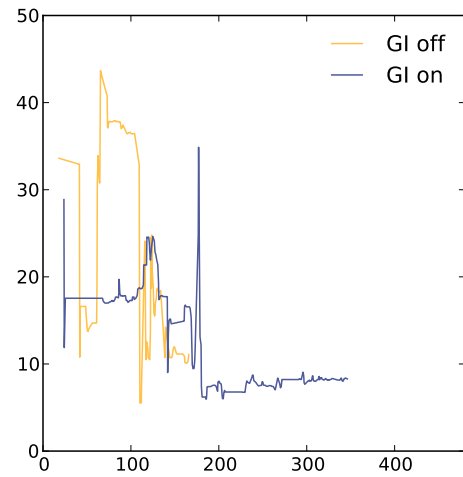
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

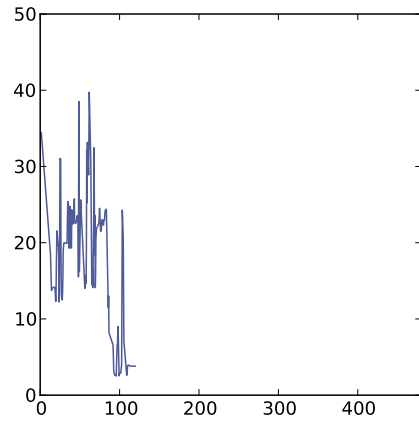
Subject's result



Target image



CIELAB error in time



Architecture scene

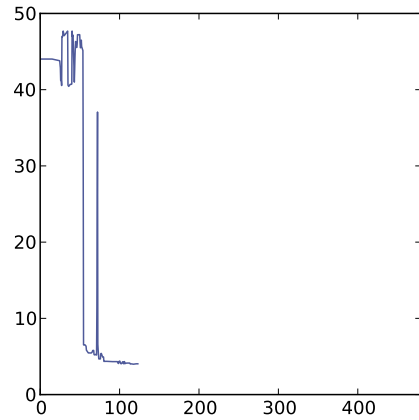
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 21

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



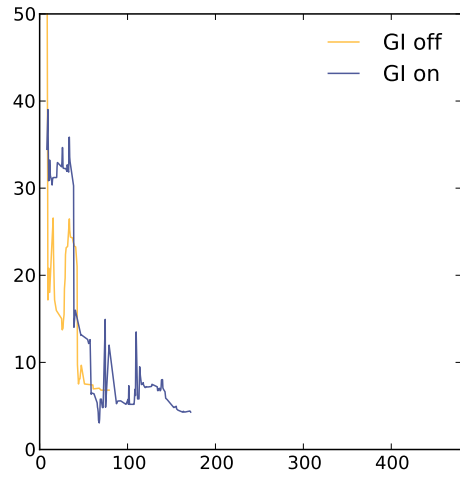
Subject's result - GI on



Target image - GI on



CIELAB error in time

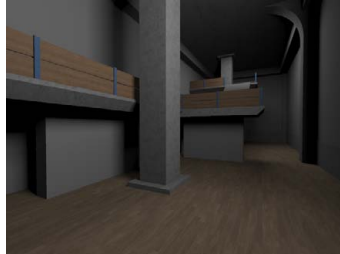


Architecture scene

Subject's result - GI off



Target image - GI off



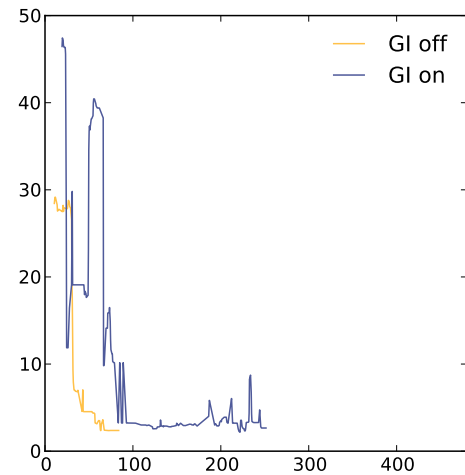
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



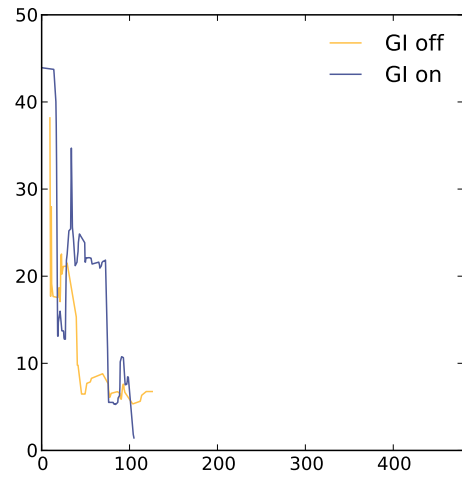
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



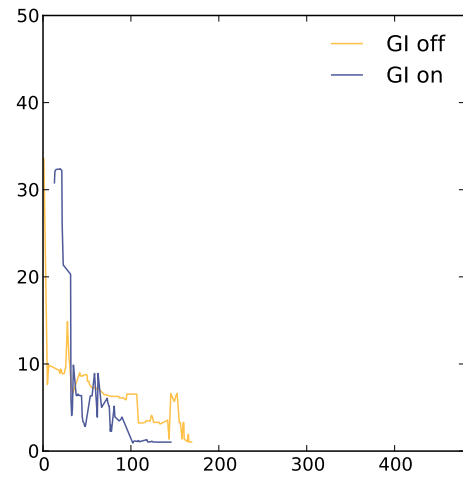
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

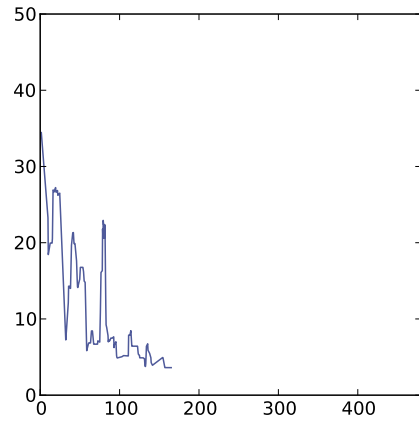
Subject's result



Target image



CIELAB error in time



Architecture scene

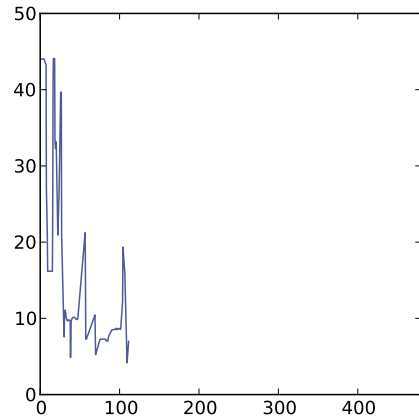
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

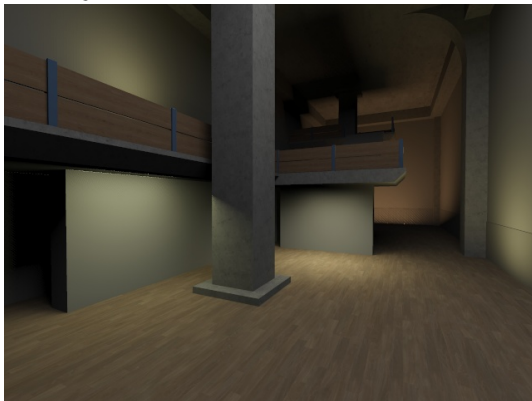
Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 22

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



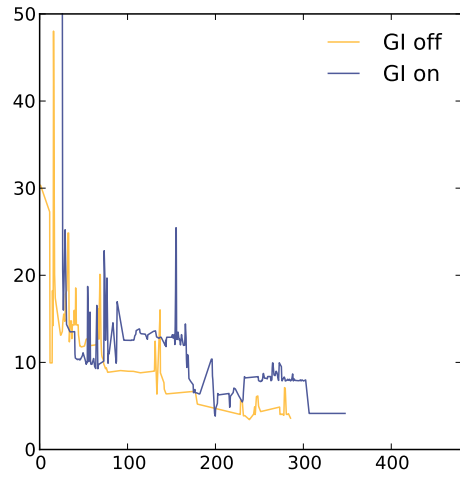
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



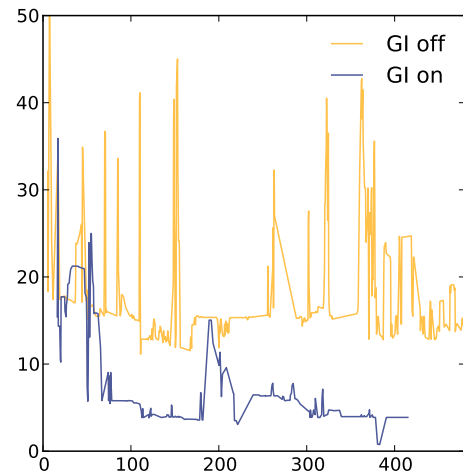
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



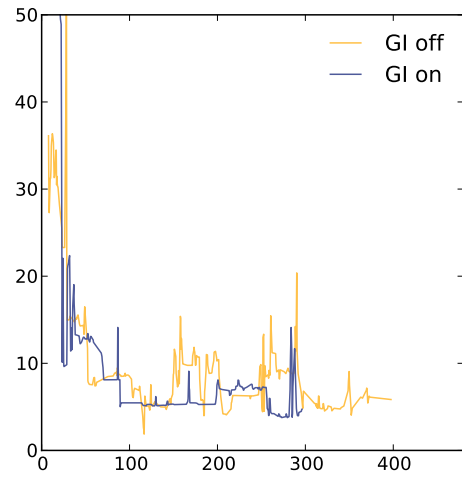
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



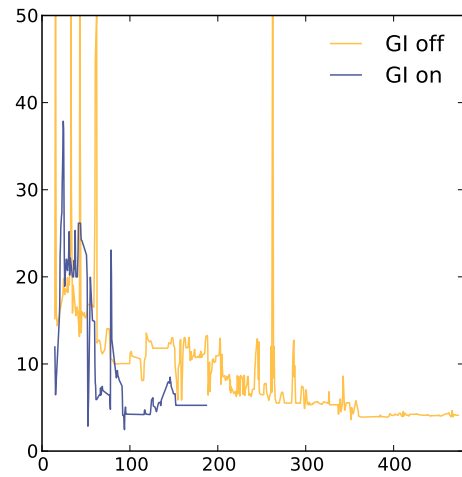
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

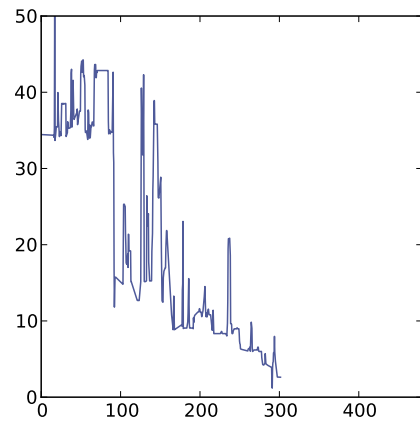
Subject's result



Target image



CIELAB error in time



Architecture scene

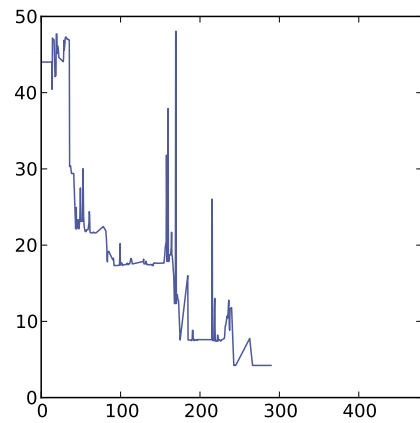
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

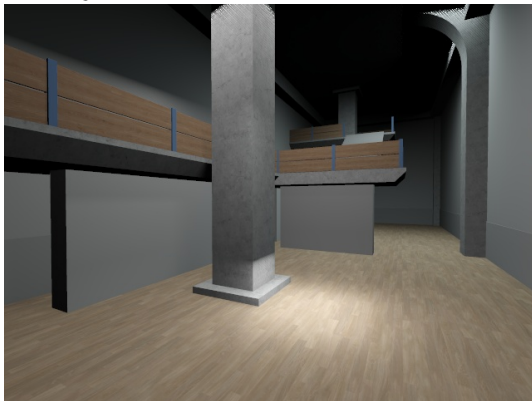
Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 23

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



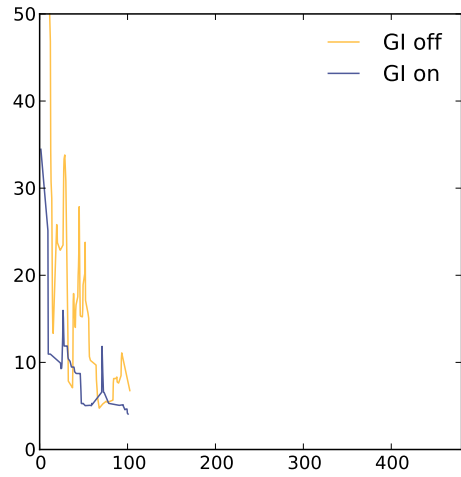
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



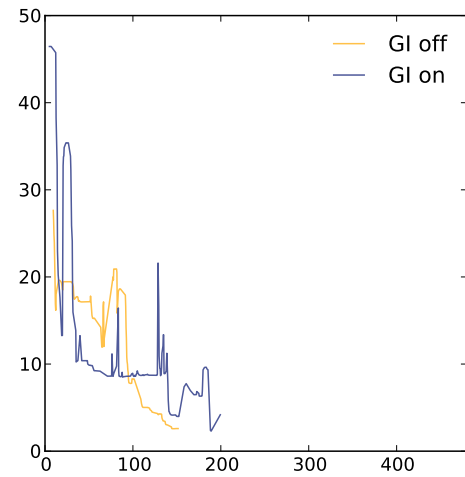
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



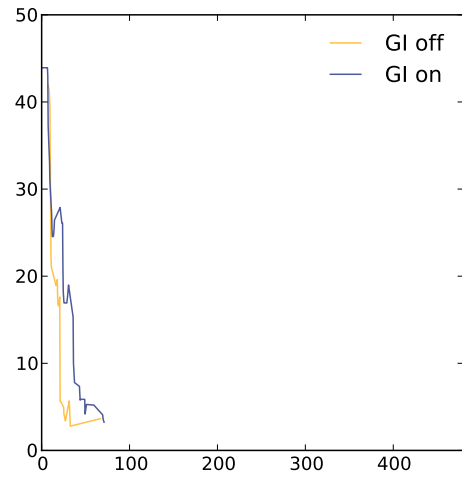
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



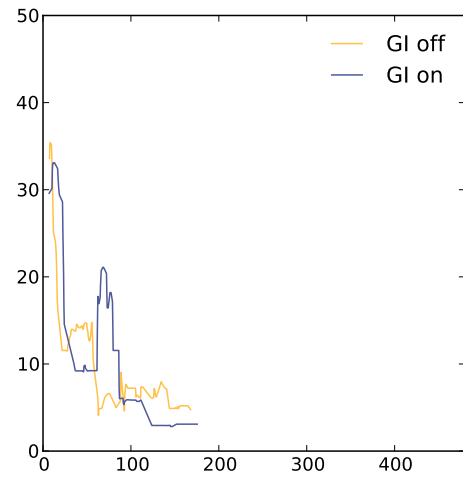
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

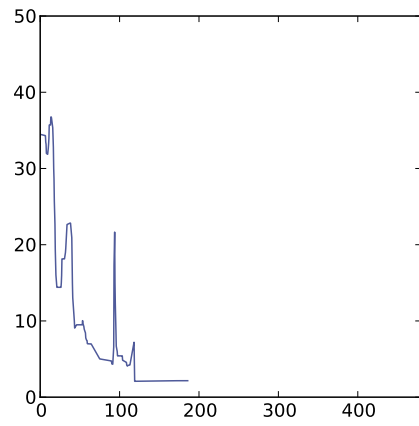
Subject's result



Target image



CIELAB error in time



Architecture scene

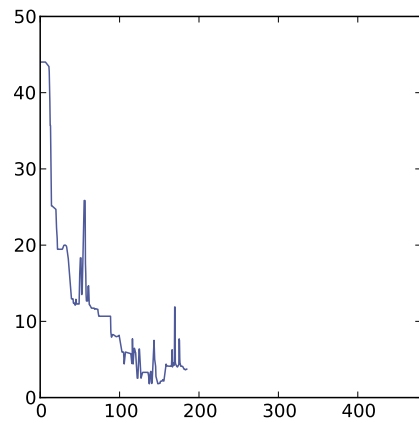
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene

Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene

Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 24

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



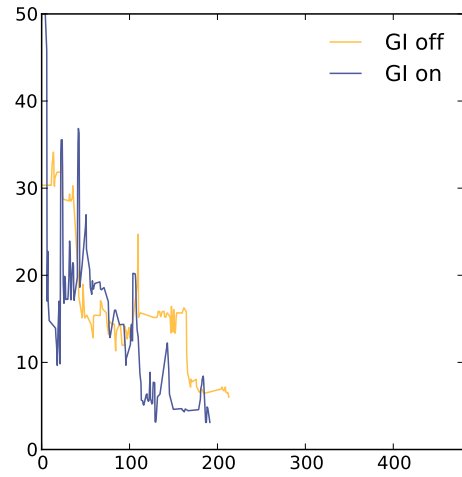
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



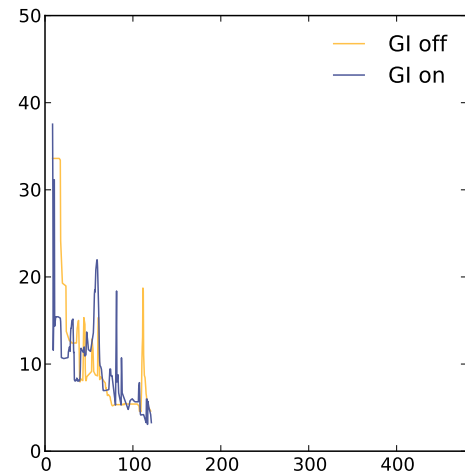
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



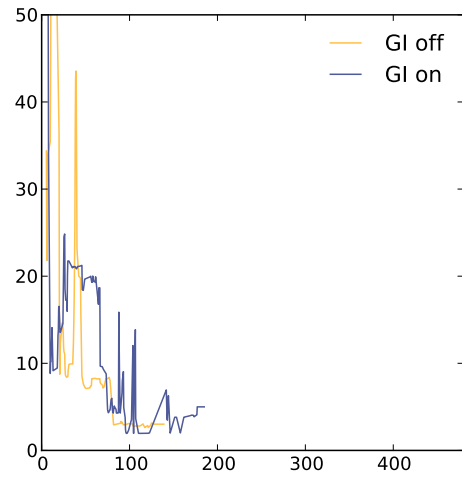
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



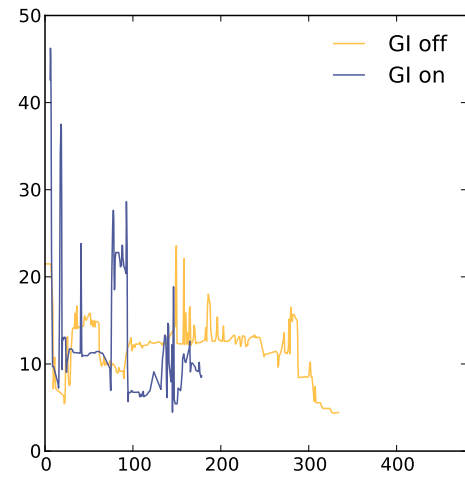
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

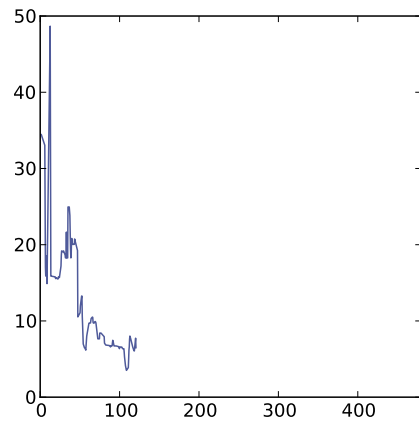
Subject's result



Target image



CIELAB error in time



Architecture scene

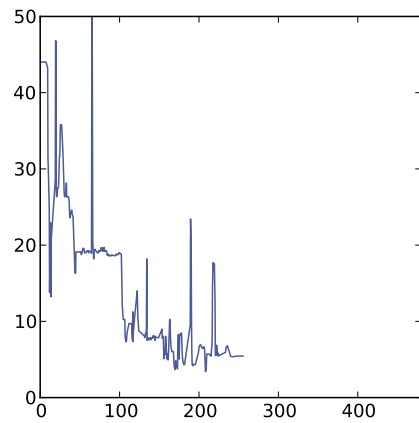
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 25

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



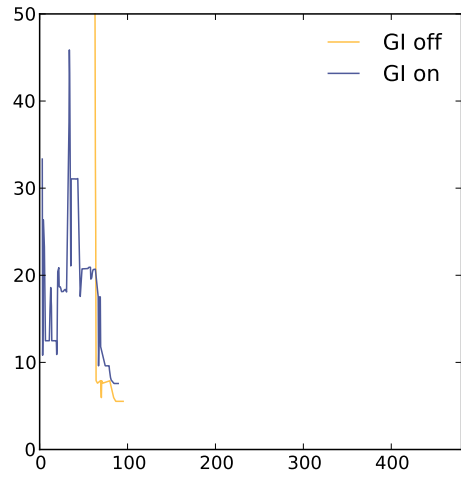
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



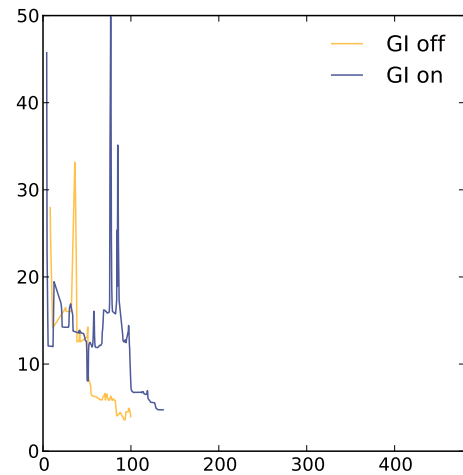
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



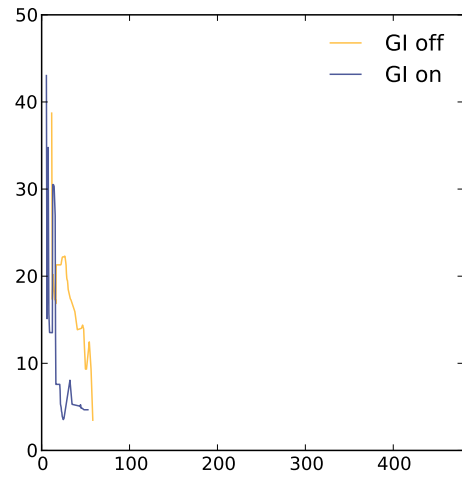
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



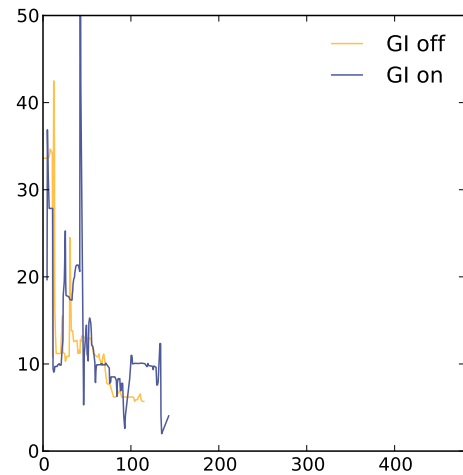
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

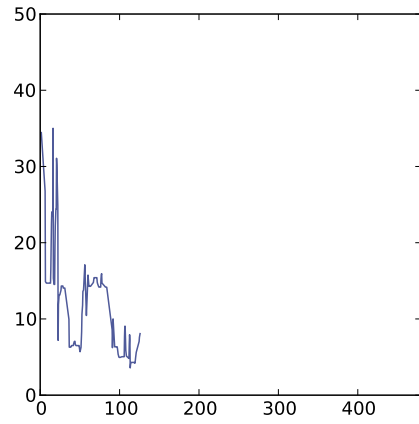
Subject's result



Target image



CIELAB error in time



Architecture scene

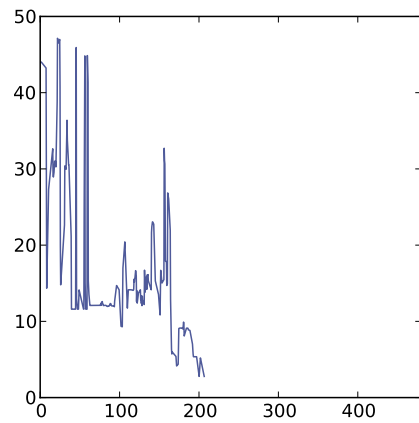
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene

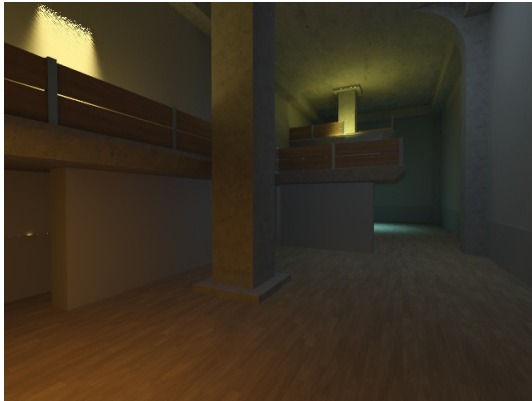


Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

Target image - Architecture scene



Experiment 5

Subject's result - Still life scene

Subject's result - Office scene



Subject 26

Experiment 1

Cartoon scene

Subject's result - GI off



Target image - GI off



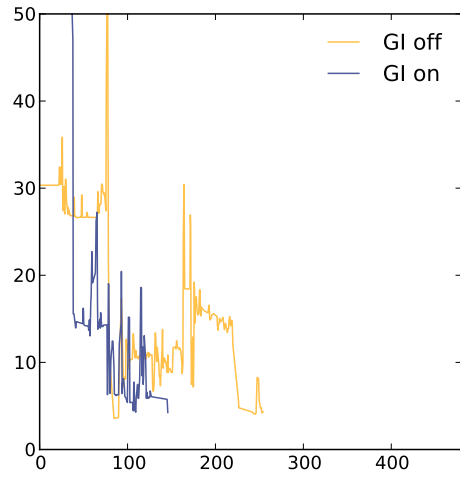
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



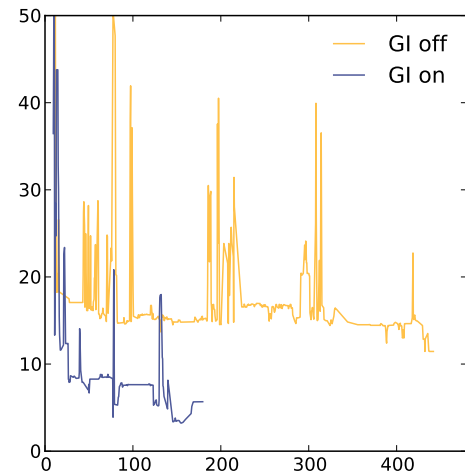
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 2

Cartoon scene

Subject's result - GI off



Target image - GI off



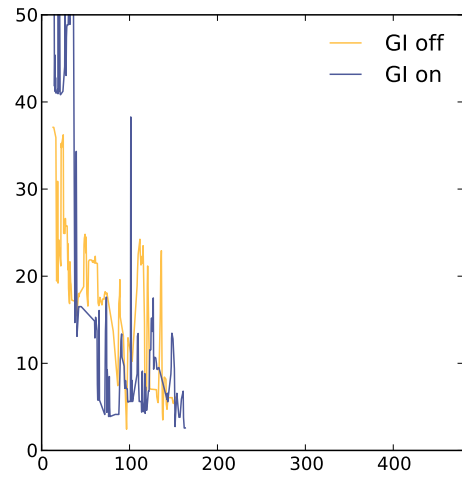
Subject's result - GI on



Target image - GI on



CIELAB error in time



Architecture scene

Subject's result - GI off



Target image - GI off



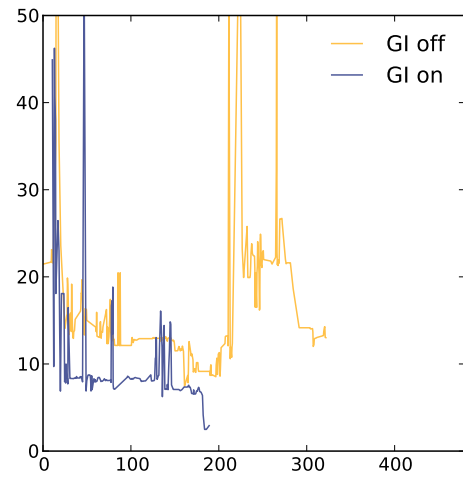
Subject's result - GI on



Target image - GI on



CIELAB error in time



Experiment 3

Cartoon scene

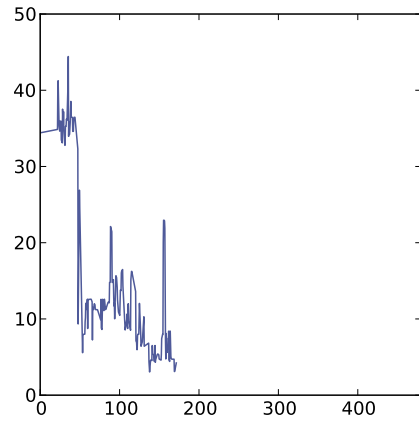
Subject's result



Target image



CIELAB error in time



Architecture scene

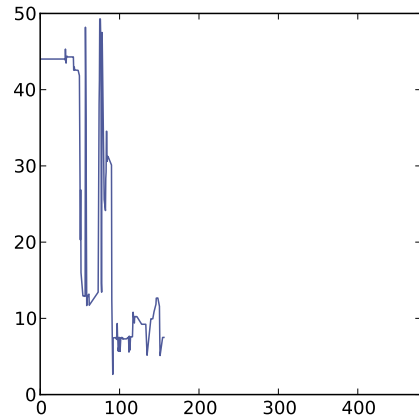
Subject's result



Target image



CIELAB error in time



Experiment 4

Lighting model 1: small key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 2: arbitrary size key lights, GI off

Subject's result - Cartoon scene



Target image - Cartoon scene



Subject's result - Architecture scene



Target image - Architecture scene



Lighting model 3: arbitrary size key lights, GI on
Subject's result - Cartoon scene
Target image - Cartoon scene



Subject's result - Architecture scene

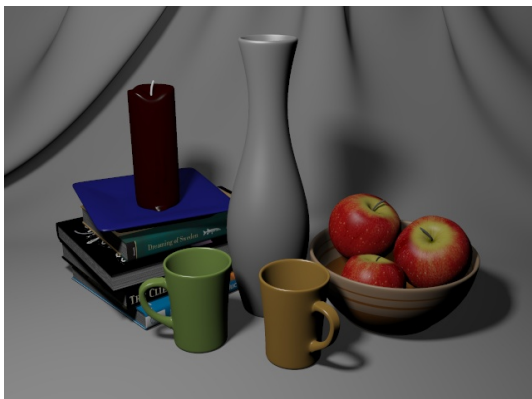


Target image - Architecture scene



Experiment 5

Subject's result - Still life scene



Subject's result - Office scene

