

Supplemental Material for Interactive Optimization of Generative Image Modeling using Sequential Subspace Search and Content-based Guidance

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1. Crowdsourced Evaluation Details

We conducted the crowdsourced evaluation using Amazon Mechanical Turk. Specifically, we showed the reference image on top identified as “A” and the two edited images on the bottom identified as “B” and “C”. We then asked: “Which of the two images on the bottom “B” or “C” better matches image “A”? The answer options were “B”, “C”. We randomly shuffle the edited result using our method and result to be “B” and “C” for each query. The described interface is shown in Figure 1. And we show the detail voting results in Figure 2.

Which of the two images on the bottom (B) or (C) better represents image (A)?

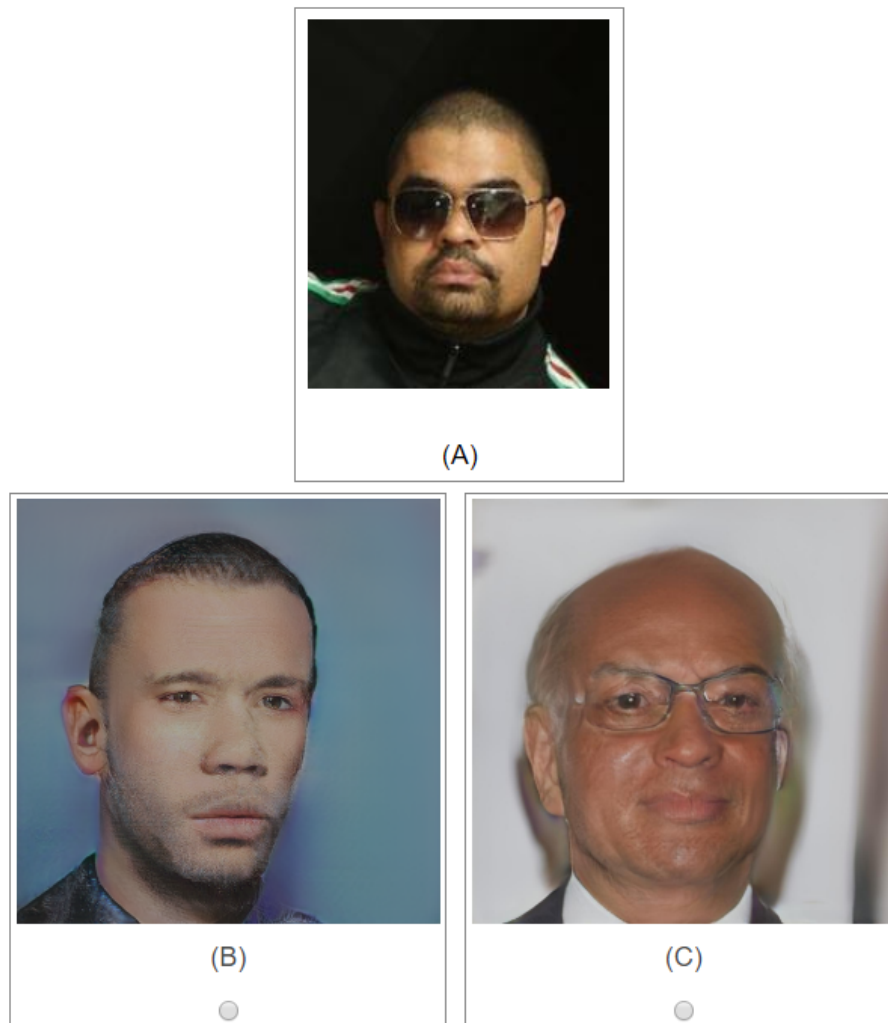


Figure 1. The user interface of our comparison user study conducted on Amazon Mechanical Turk.

2. Additional ablation study details

In Figure 3, we provide the detailed interaction time for each participant of our real image ablation study (Section 6.3.2 in the main paper).

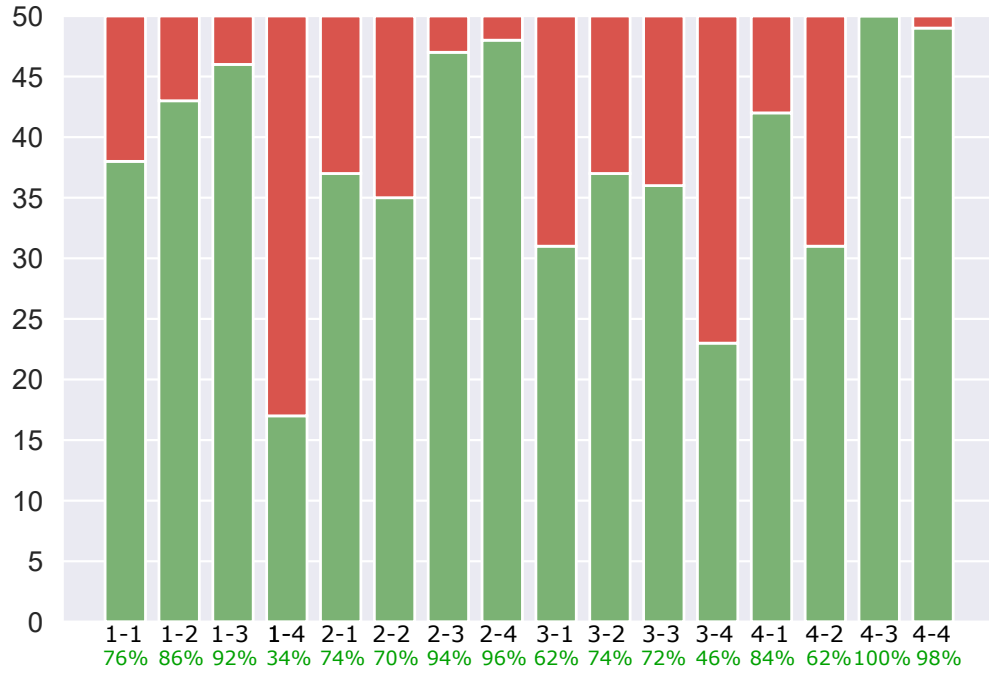


Figure 2. The detail voting results from crowdworkers, the green bar denotes the vote for our method, and the red bar denotes the vote for iGAN. For each question, there are total 50 votes. The green number indicates the vote percentage of our method. Please find the corresponding images in Figure11 in the main paper and the rest of the result images in the detail result supplemental material (1-1 indicates the 1st result of reference image 1).

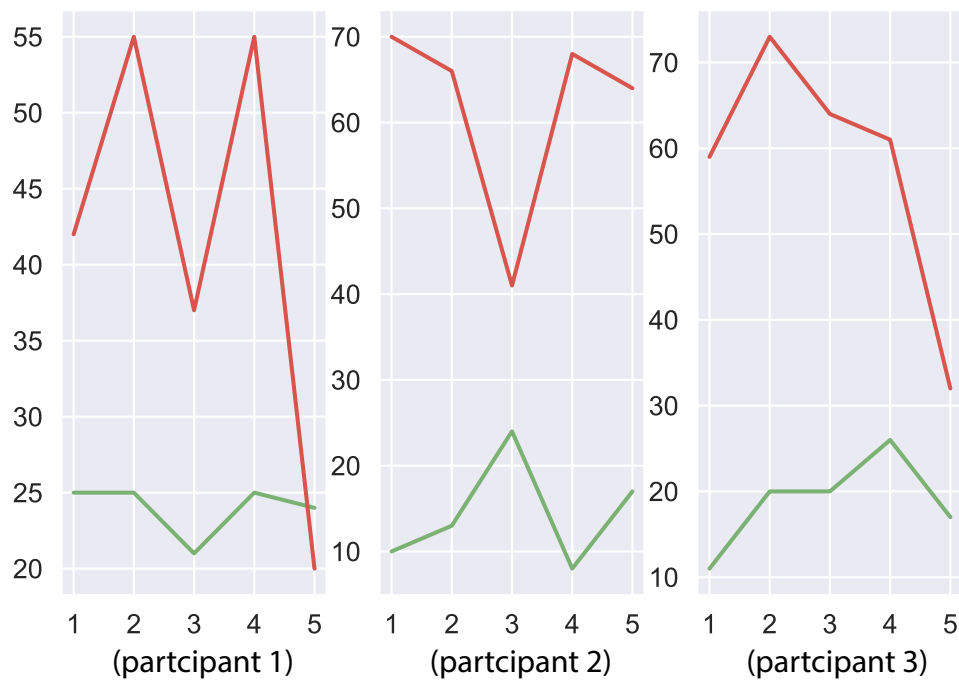


Figure 3. We show detailed interaction time for each participant in our real image ablation study. The yellow line indicates the interaction time of using 1-slider version of our method, and the red line indicates the interaction time of using the 4-sliders version of our method.