

Supplementary Material

Article Title: Illusory facial expressions caused by lighting direction

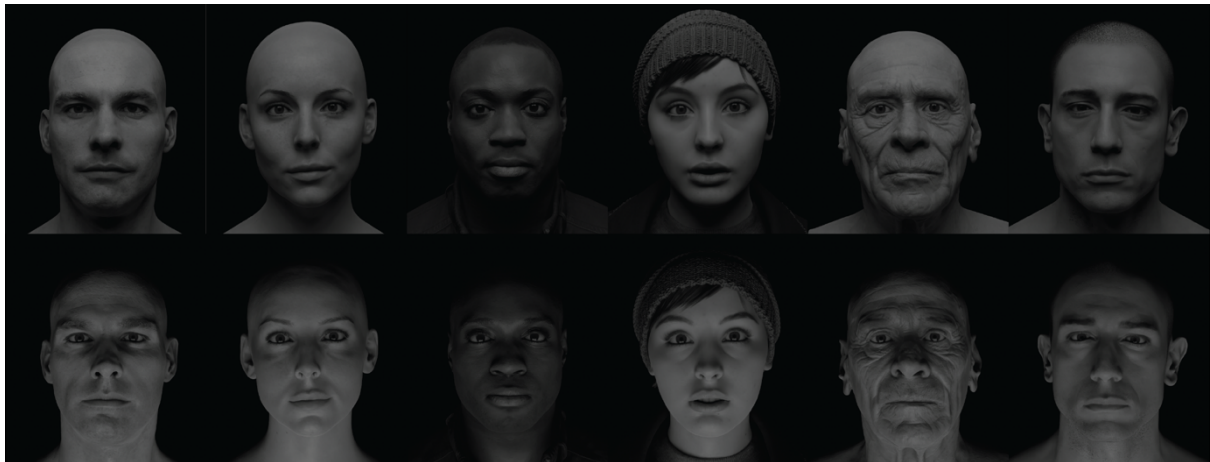
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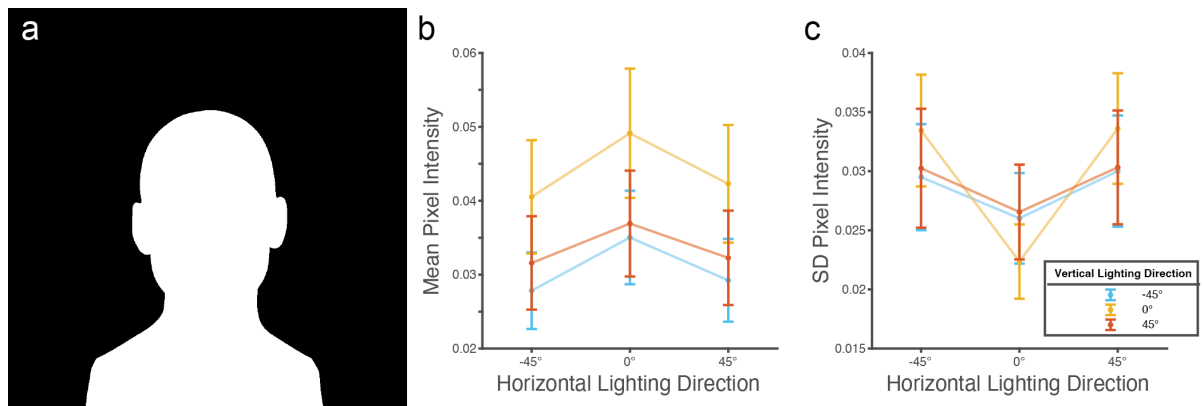
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Supplementary Figure 2



Supplementary Figure 1. Face models with neutral expressions used in Experiment 1. Here, the six models are rendered under the illumination of a light source positioned 45° above the face (top row) or 45° below the face (bottom row). The stimuli used in the experiment included a wider range of illumination directions, as described in Methods in the main text of the article.



Supplementary Figure 2. Image statistics. (a) Example of a mask used to isolate foreground pixels, corresponding to the identity shown in Figure 2a. (b) Mean luminance of face images across lighting conditions for Experiment 1. Markers and error bars show the mean ± 1 standard error across identities for a given lighting condition. Pixel intensity is expressed on a linear scale used by the rendering program. (c) Contrast of face images across lighting conditions, quantified as the standard deviation of within-mask pixel intensities.