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Manga-like Rendering

Considering Omitted Pen-stroke

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This paper explains rendering software which I development. This software can draw comic-like lines from a 3D model, according to conditions input by the user.

This rendering software considers “accents” and “omissions”. A manga artist creates a manga-like depiction with a pen. This includes depiction, called an “accent”, by drawing a line thickly. Also, for contrast, there is depiction called “omission”, by drawing a line thinly, and partially omitting lines. This rendering software can render images including these depictions.

This rendering software is focused on the three elements of Perspective / Attention / Contrast used for “accents” and “omissions”. These three elements are elements to consider when a manga artist draws a picture. From these three elements, I generate an index of emphasis and abbreviation. If I draw a thick pen-stroke the accent value is large. In contrast, If I do not draw a pen-stroke, the omission value is large.

This research rendered manga-like images, which omitted some pen-strokes. And the rendered image is subject to user input.

This software enables the user to render manga-like images from a 3D model.