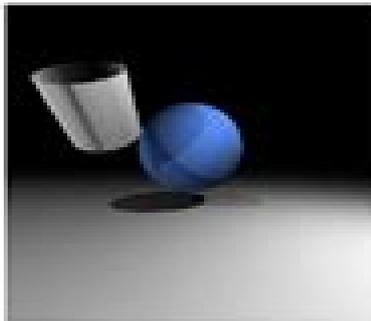
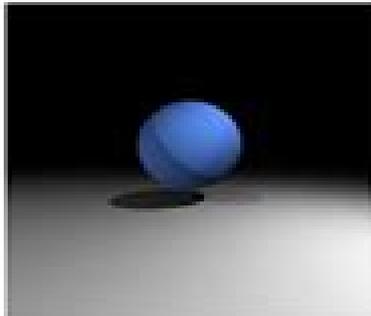


Exploring Computer Graphics: Photorealistic and Non-photorealistic rendering

Brittany Chin '16

Computer Science, Colby College, Waterville, ME

Photorealism: Ray tracing



Photorealistic rendering is the process of developing synthetic images that look real, based on geometry, perspective, and lighting.

I chose to implement a ray-tracer, which renders the image by shooting rays of light into the scene, and tracing along those rays to see if and where objects intersect the rays.

When the rays of light do not reach the ground because they are blocked by an object, shadows are drawn dependent on where the light source is coming from.

Non-photorealism: Filters

A non-photorealistic rendering system deals with the techniques of making images that mimic artistic styles. Examples of this could be simulating watercolor on paper, the strokes of a brush with paint on it, or applying filters to images to give them different artistic styles.

Here I have implemented a filter which gives the effect of a printed or layering technique. Each RGB value from the original image was mapped to a color in a set palette based on which color it was most closely related to (using a Euclidean distance with each R, G, and B values on a scale from 0 to 255).

Before

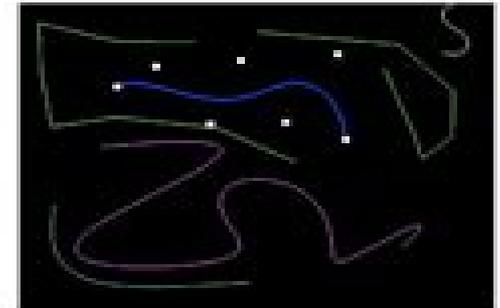


After



Curves and Modeling

Curves are an integral component of more complex computer graphics techniques. Different types of curves, such as Bézier curves, can be used to create surfaces which then lead to 3D models.



Surfaces



Blair Stewart, 2014

Computer Graphics Applications

- Video games
- Animation
- CAD Modeling
- Movie special effects
- Virtual reality

Nonphotorealistic Computer Graphics

Puja Mehta

A decorative graphic element consisting of a horizontal light blue bar with a rounded right end, and a red circular glow behind it.

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