

Rendering Project Proposal

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Motivational Image

The chosen scene for the rendering project consists of a serene beach at sunset, featuring a wooden table with a cold glass of beer. The warm glow of the setting sun creates a visually stunning interplay of light and shadows, highlighting the translucent and reflective properties of the glass and the liquid inside.



Figure 1: Motivational Image: Sunset with a glass of beer.

Chosen Features and Points Breakdown

The following features have been chosen for the rendering project, summing up to 10 points:

- **Thin-Lens Depth of Field (2.5 points):** Simulates focus and defocus effects of a real-world camera, drawing attention to the glass of beer.
- **Environment Map Sampling (2.5 points):** Optimizes the use of an HDR environment map, improving lighting quality by sampling significant brightness areas.
- **Single Scattering in Participating Media (5 points):** Simulates light scattering within the beer, enhancing its realistic appearance.