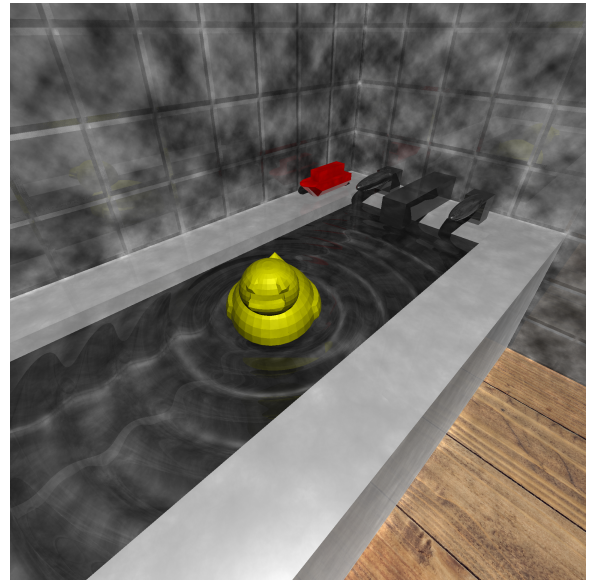


Raytracer, Enhanced

Name: Mingrui Zou
User ID: m2zou
Student ID: 20530377



Artistic Merit (Polish/Artistry/Humour)

Technical Merit (Algorithms/User Interface/Graphics Techniques)

Difficulty

Code/Documentation/Demo

Mark

Objective Mark:	/10
Subjective Mark:	/10
Total	/20

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Objectives

- **1:** The ray tracer is able to create transparent surfaces with varying refraction indices.
 - **2:** The ray tracer is able create reflective surfaces.
 - **3:** Procedurally generated ripples for water surfaces is implemented.
 - **4:** The ray tracer is able to generate a photon map.
 - **5:** The ray tracer is able to use a generated photon map to perform lighting calculations.
 - **6:** Texture mapping is implemented.
 - **7:** Bump mapping is implemented.
 - **8:** Procedurally generated noise for surfaces is implemented.
 - **9:** A model of a rubber duck and a toy boat created for placement in the scene
 - **10:** A realistic depiction of a modern bathtub with bathtub accessories surrounded by marble-tiled walls and floor is created.
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