

Dynamic Reflections and Refractions

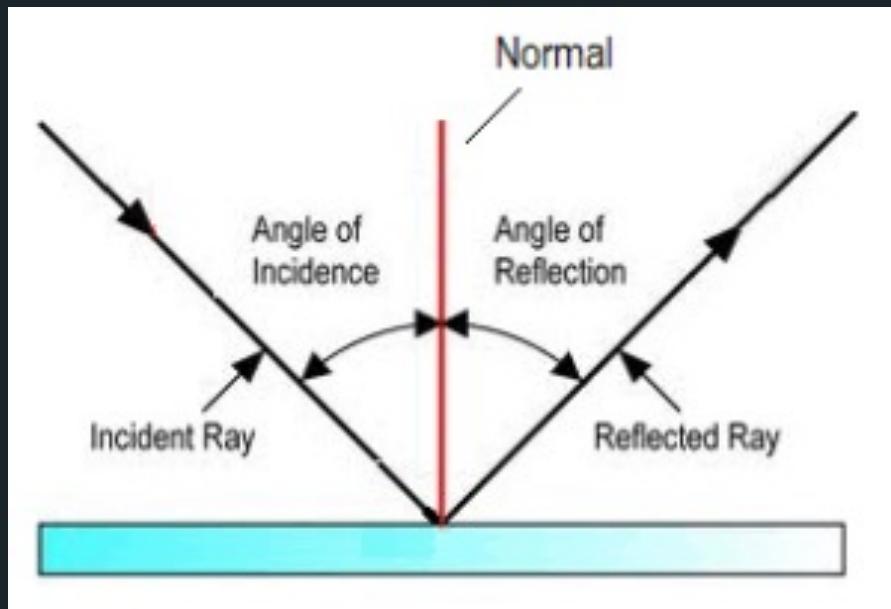
Sivert Utne

Presentation will contain

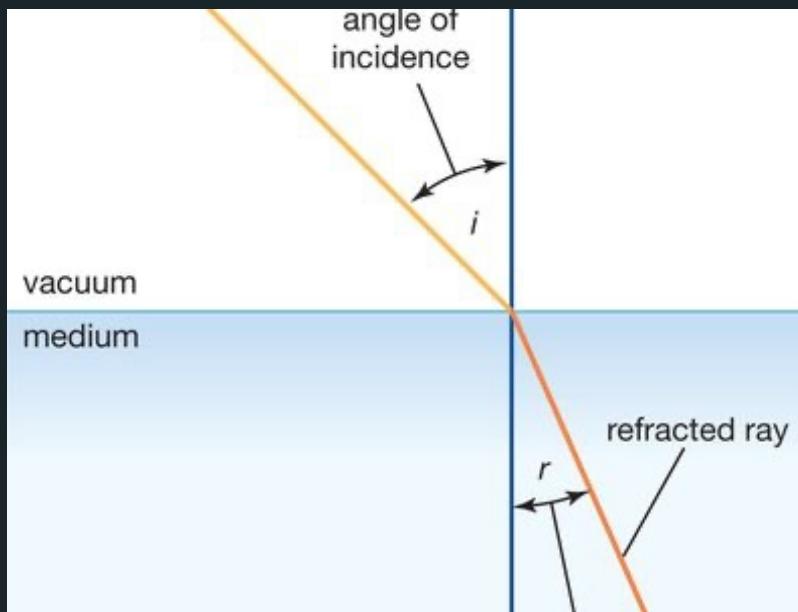
- Basic Theory
- Explanation
- Demonstration + Questions

Basic Theory

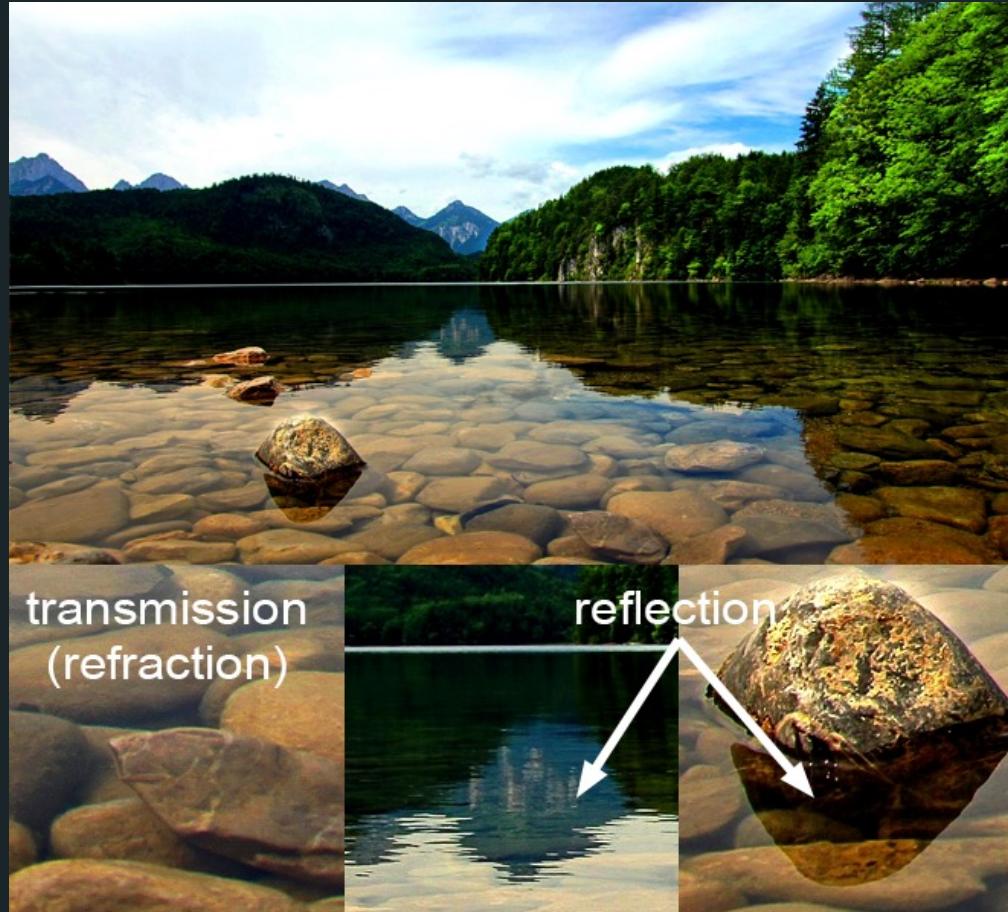
Reflection



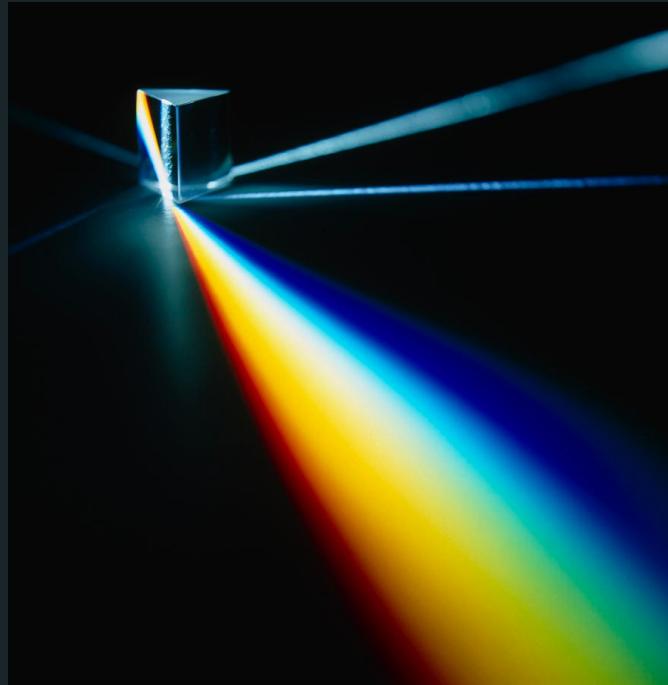
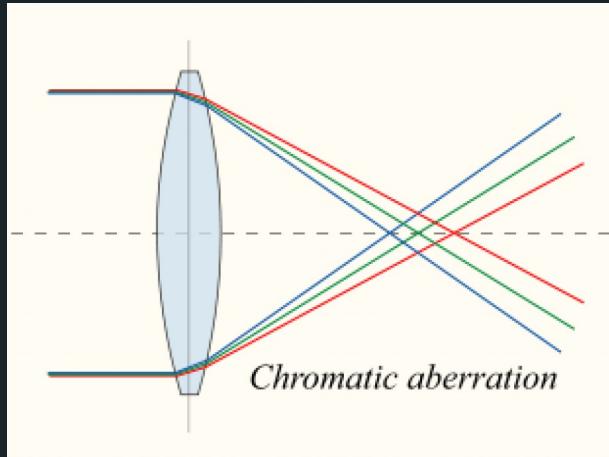
Refraction



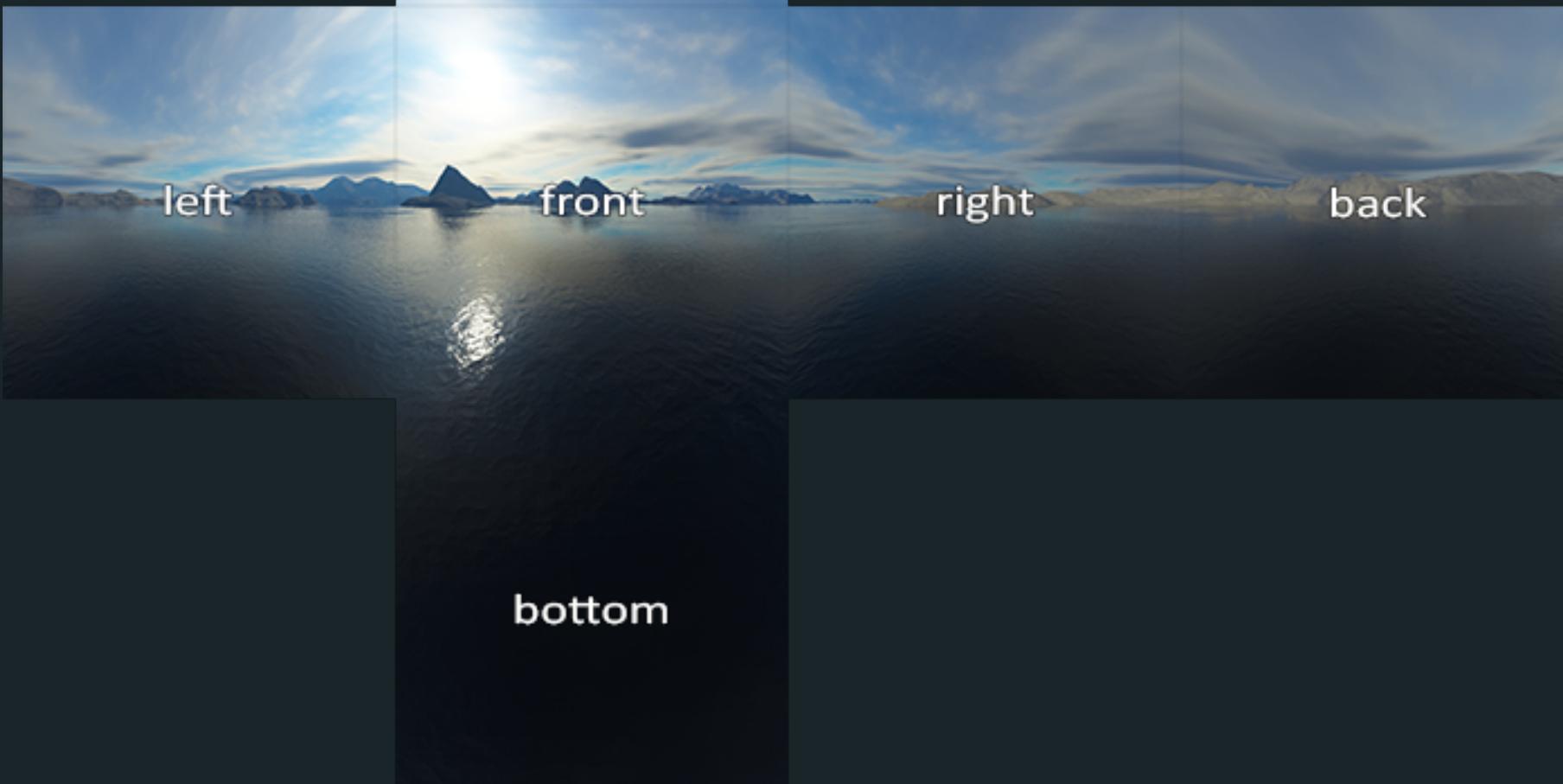
Reflection + Refraction (The Fresnel Effect)



Light Dispersion (Chromatic Aberration)



Cubemaps



Explanation



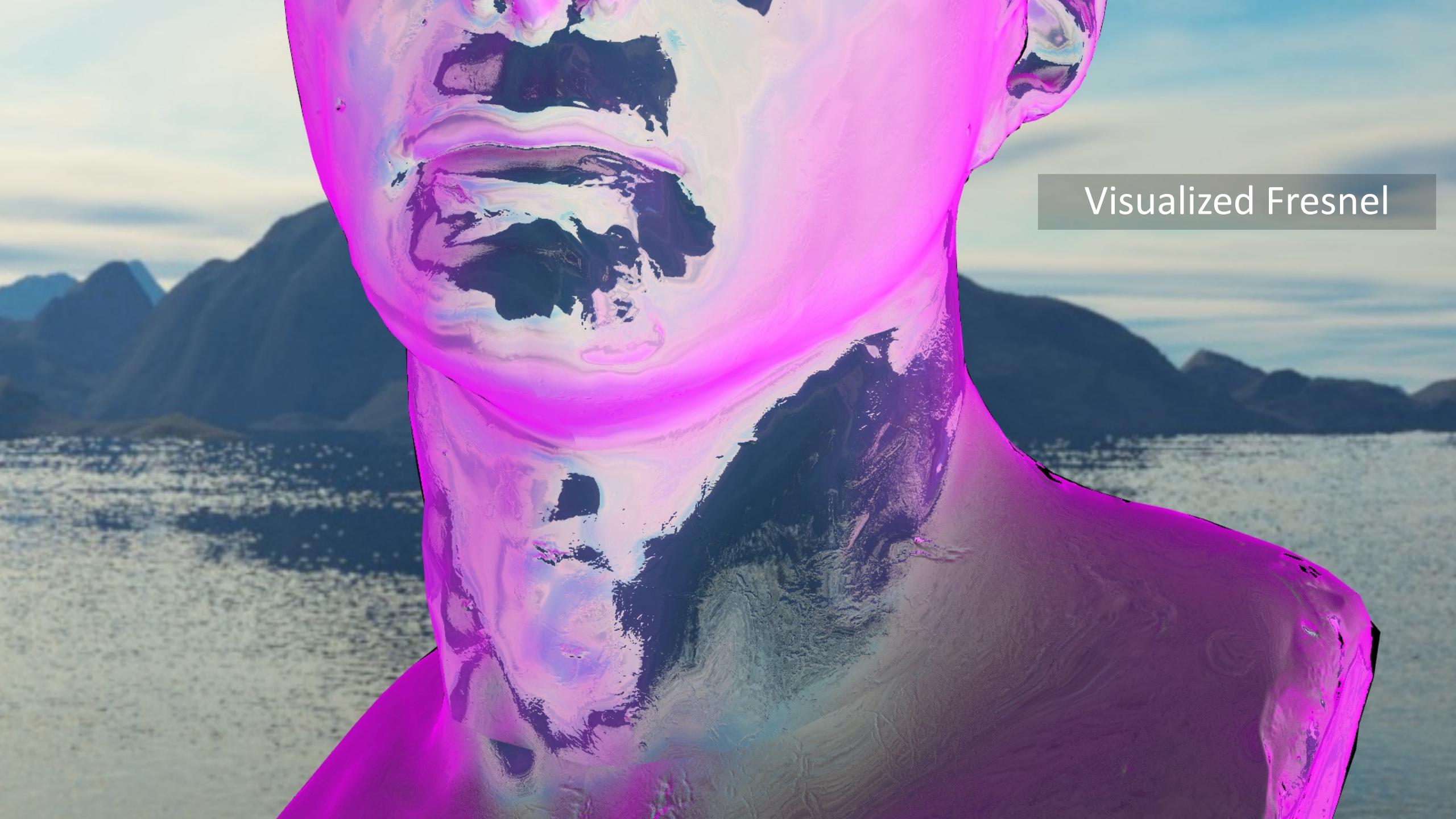
Reflection



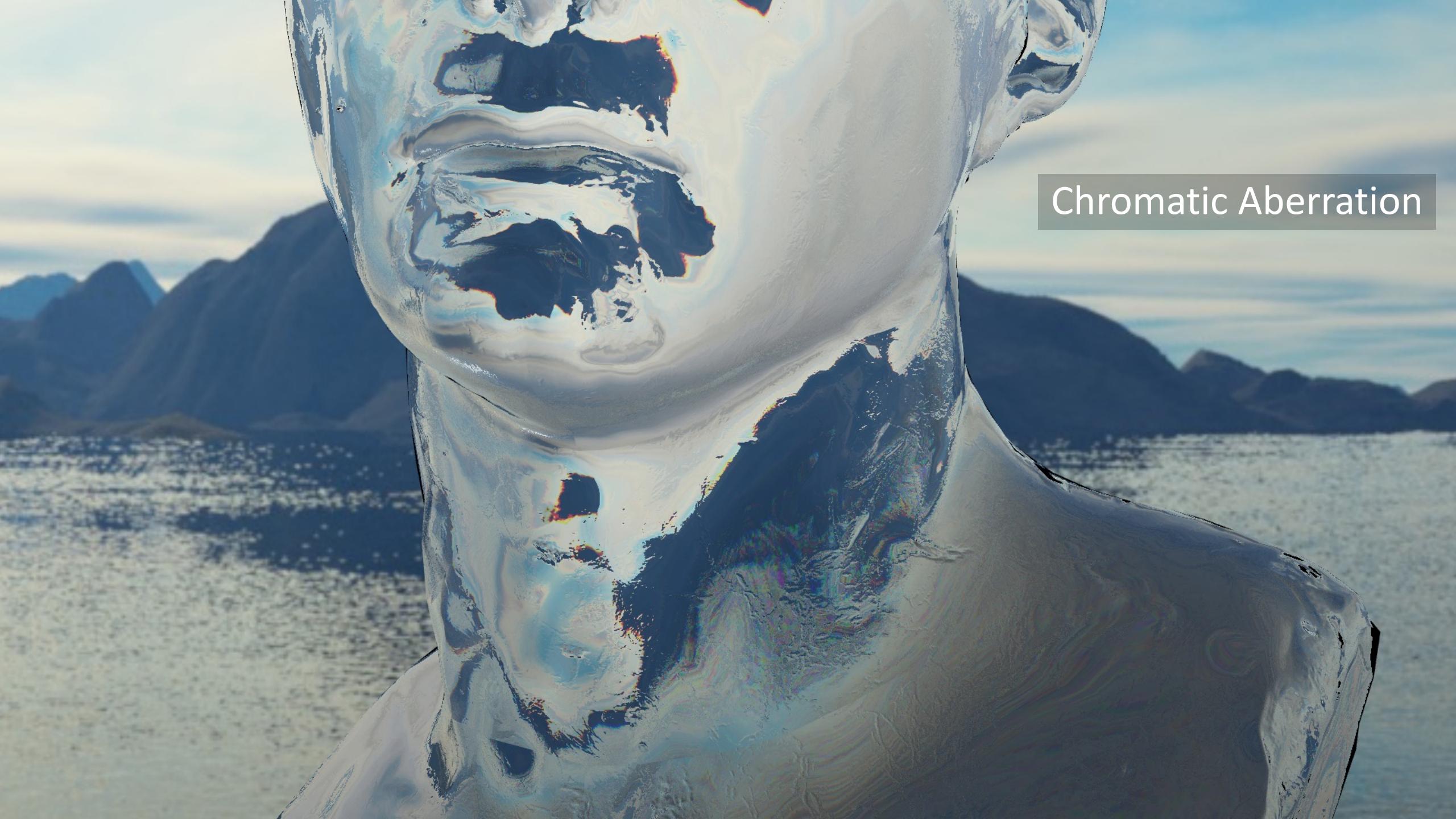
Refraction



Fresnel

A close-up portrait of a woman's face, heavily obscured by a vibrant, abstract overlay. The overlay consists of swirling patterns in shades of pink, purple, blue, and white, creating a dreamlike and artistic effect. The background features a scenic landscape with dark, rugged mountains and a body of water under a clear sky.

Visualized Fresnel



Chromatic Aberration

Static Cubemap

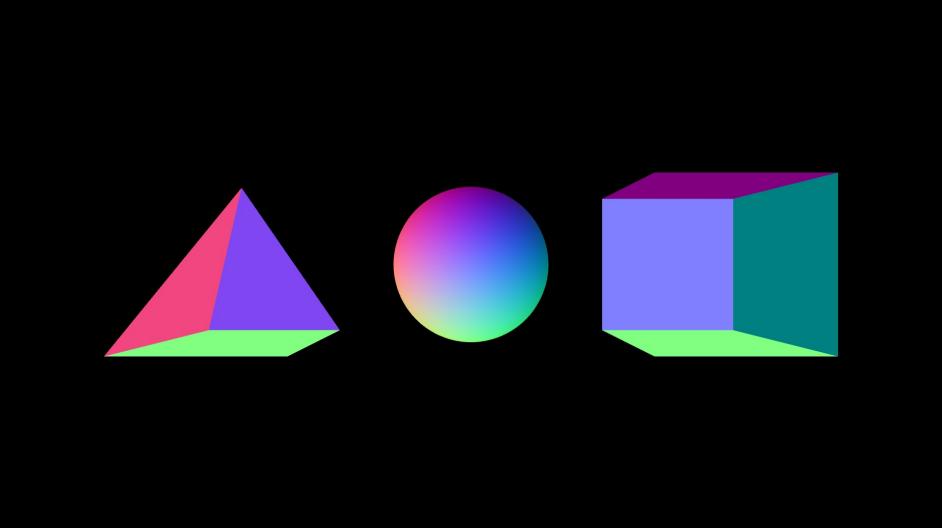
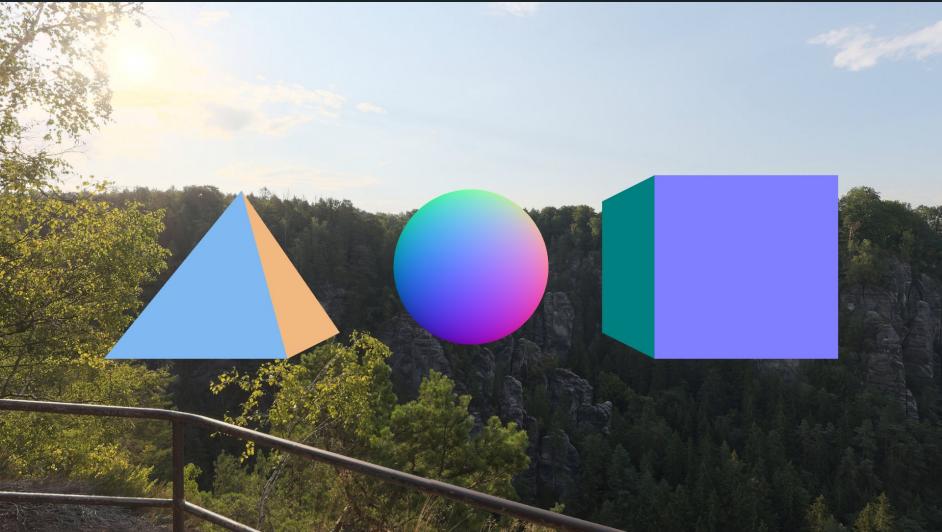


Dynamic Cubemap





Double Refraction (Not Completed)



Demo Time





