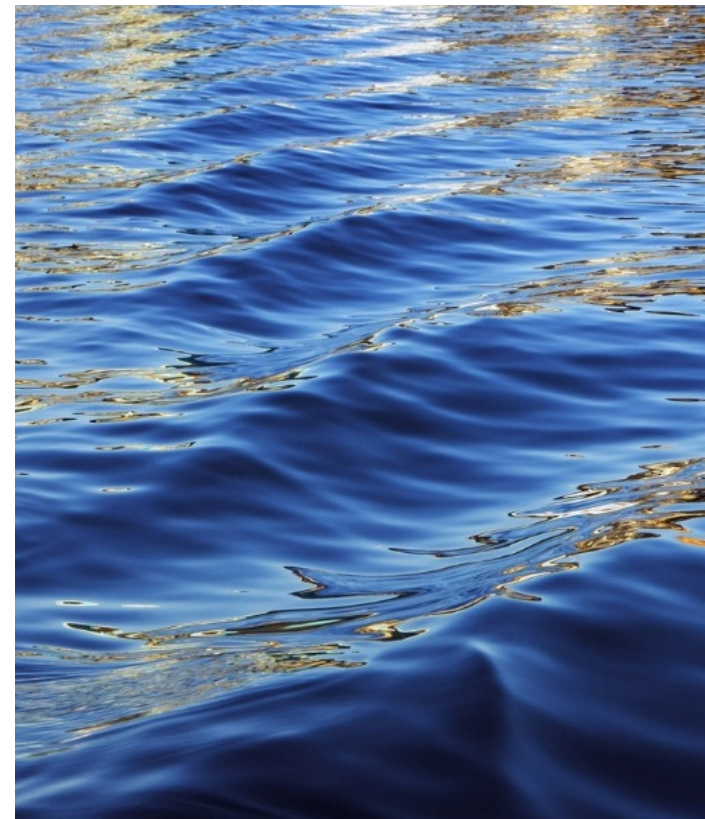




See O Too

Immersive Introduction to Climate Science





See O Too

See O Too is an augmented reality application that visually and immersively teaches the fundamentals of Climate Science

Guided Experience

The guided experience—intended for museums, classrooms, or festivals—can be used with no prior exposure to AR or VR. It currently runs on the Microsoft HoloLens

The material and terminology is designed for middle school science students through adults and can be completed in about 10 minutes

The Project

See O Too is an open source project developed in Unity3D and hosted on GitHub

It's being developed on a volunteer basis and is currently without external funding or partnerships

We are seeking interested collaborators, particularly artists, animators, and developers with Unity3D expertise



Design Principles

Journalistic approach

Scientific reality, not advocacy

Open content methodology

- References published on GitHub

- Design decisions documented on GitHub

Extreme clarity about directly measured data versus projections and areas of active research

- Data example: Current atmospheric CO₂ concentration

- Active research example: Greenland ice sheet melt rate



Guided Experience

Three Chapters

1. Gasses in the Atmosphere
2. Warming and Melting
3. Effects and Mitigation



Interactive Experience

Includes the Guided Experience

Interactive explorations in each Chapter

Some examples from Chapter 1

- Explore details of each gas (e.g. Nitrogen cycle)

- See dry versus wet atmospheric composition

- Explore Water vapor and Water cycle



Accessibility

User input

- Voice and simple gestures (default)

- HoloLens clicker

Visual output

- HoloLens display with head tracking (default)

- Descriptive audio (app version on iPad/iPhone)

Audio output

- Narration, music, and sound effects (default)

- Floating subtitles



Localization

Languages: English (default), Spanish, French

Measurements: Imperial (default) or Metric

Setting for Imperial with Centigrade