

Light through a window

In this assignment I want to create an **animation** simulating the shape of glazed area of a window projected on floor by direct sunlight **spanning a certain time scope** at a given location.

The window's dimensions and height from floor are fixed. The alignment of the window is going to be changeable. Time scope will be either from sunrise to the present time , or a given year. In the latter case, the animation will be presenting the changing projected shape at the time where the sun is at every day's highest angle in the sky.

To achieve the aims, I will be using **math** and **numpy** to compute the arrays of sun angles and altitudes, so that the points to define the projection can be produced by using **matplotlib**.

The outcome will be a gif file of the animation produced by using **MoviePy**.

