Plenoptic Camera and Integral Photography

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Background and Motivation
What Is Wrong with This Image?
What Is Wrong? It’s Just a Picture!
What is Wrong with Pictures?

Lippmann 1908:

The current most perfect photographic print only shows one aspect of reality; it reduces to a single image fixed on a plane, similar to a drawing or a hand-drawn painting. The direct view of reality offers, as we know, infinitely more variety. We see objects in space, in their true size, and with depth, not in a plane.
Can we request that Photography renders the full variety offered by the direct observation of objects? Is it possible to create a photographic print in such a manner that it represents the exterior world framed, in appearance, between the boundaries of the print, as if those boundaries were that of a window opened on reality.
Different views
Different views
Different views
Different views
Different views
Different views
Different views
Different views
Foreground
Change Viewpoint
Change Focus
Change Focus
Capture and display truly 3D pictures that look like windows to other worlds.