

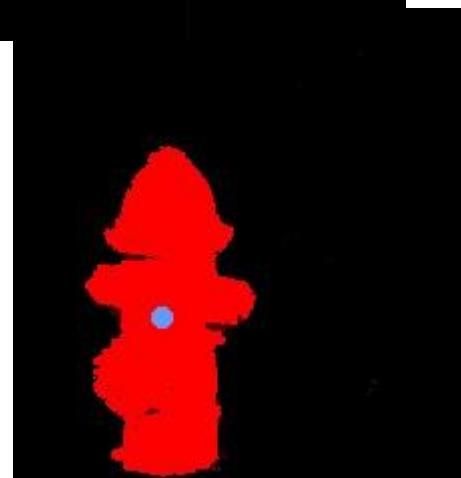
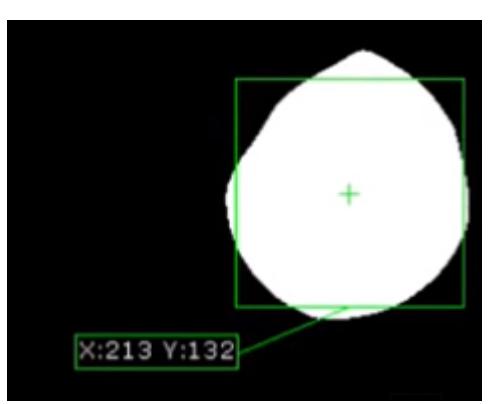
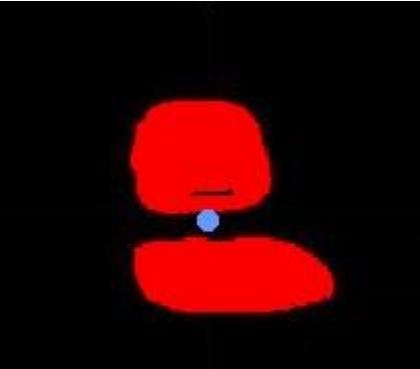
computer vision

Web definitions

Computer vision is a field that includes methods for acquiring, processing, analyzing, and understanding images and, in general, high-dimensional data from the real world in order to produce numerical or symbolic information, e.g., in the forms of decisions.

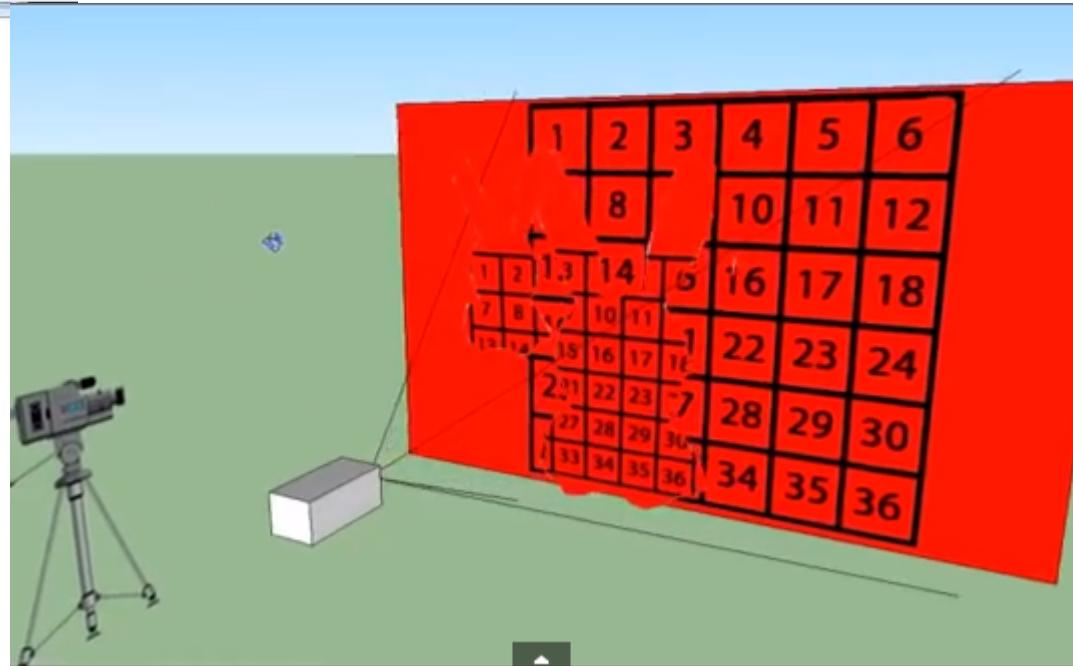
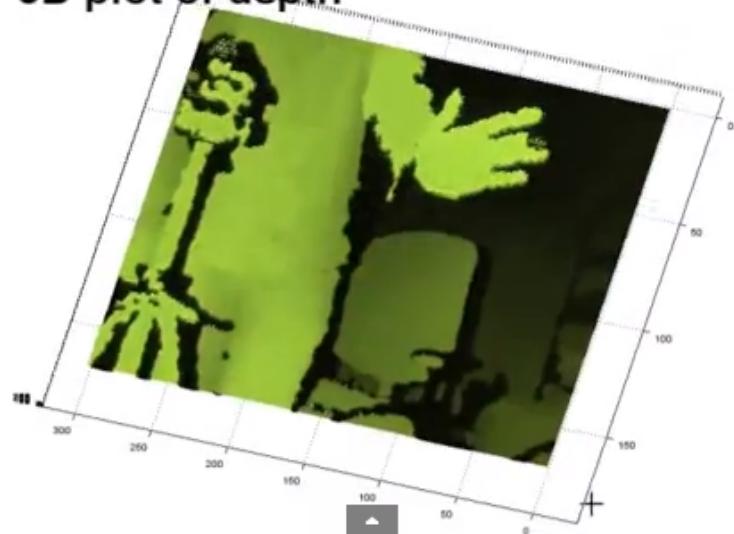
http://en.wikipedia.org/wiki/Computer_Vision

OBJECT DETECTION



Depth of Field Sensing: Kinect

3D plot of depth



Depth of Field: Kinect Facial Recognition



Image Source: [Face Shift Studio](#)

Depth of Field:



The screenshot shows the RGBD Toolkit interface. At the top, there are two images: one with a yellow bounding box around a person and another with a grey bounding box. Below these are three buttons: "Black & White", "Rainbow", and "Pointcloud". To the right of the Pointcloud button is a dropdown menu with "IGNORE" and "INCLUDE" options. A "Square Size (cm)" input field is set to "2.54". On the right side of the interface, a 3D pointcloud visualization is shown, consisting of blue and pink dots forming a grid-like structure.

Regenerate RGB/Depth Correspondence

Field of View: 72.60 x 45.13
Principal Point: 961.05 x 522.77

Distortion Coefficients:
-0.1200 0.1391 -0.0016 -0.0001

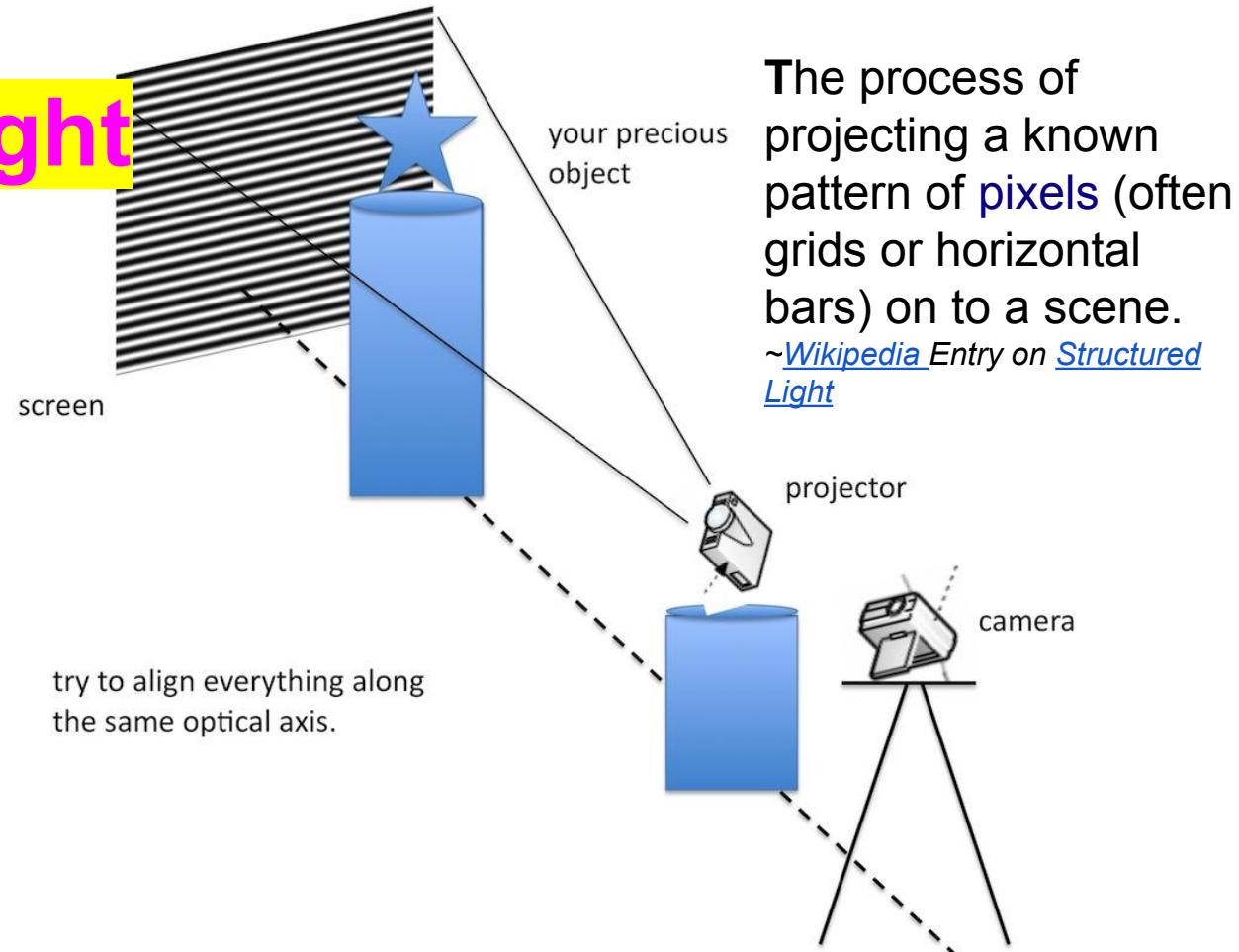
Image Source: [RGBDToolKit](#) - Product Shot & [Good Calibration Tutorial](#)

Video Source: [Kickstarter - Clouds](#)

Structured Light

"The way that these deform when striking surfaces allows vision systems to calculate the depth and surface information of the objects in the scene, as used in structured light 3D scanners."

[~Wikipedia Entry on Structured Light](#)



The process of projecting a known pattern of [pixels](#) (often grids or horizontal bars) on to a scene.
~[Wikipedia Entry on Structured Light](#)

Structured Light

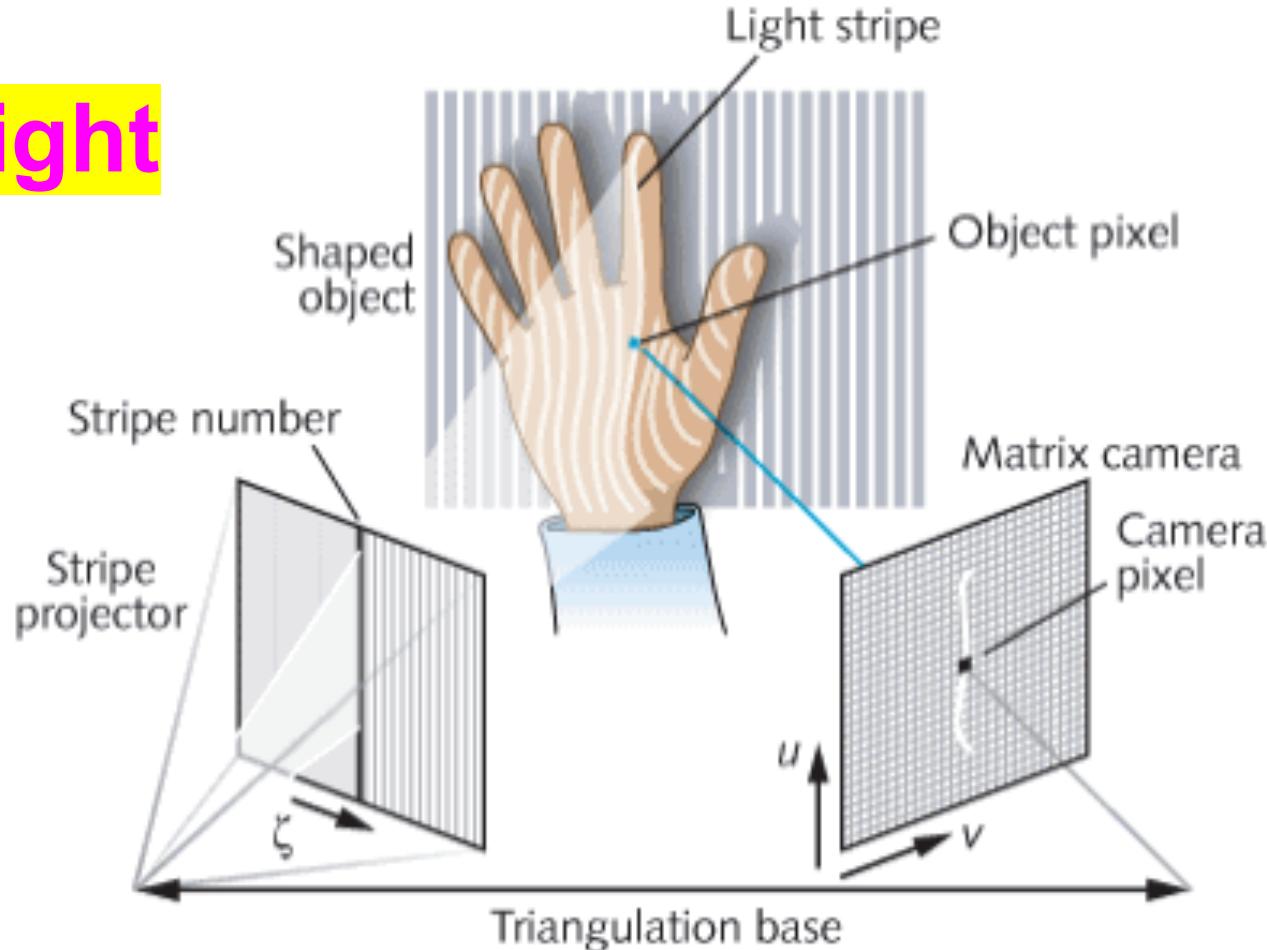


Image Source: [Laser Focus World- Photonic Frontiers: Gesture Recognition](#)
[Kyle McDonald's - Structured Light 3D Scanning](#)