# 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

Image Source: Wikipedia - Computer Vision

# OBJECT DETECTION

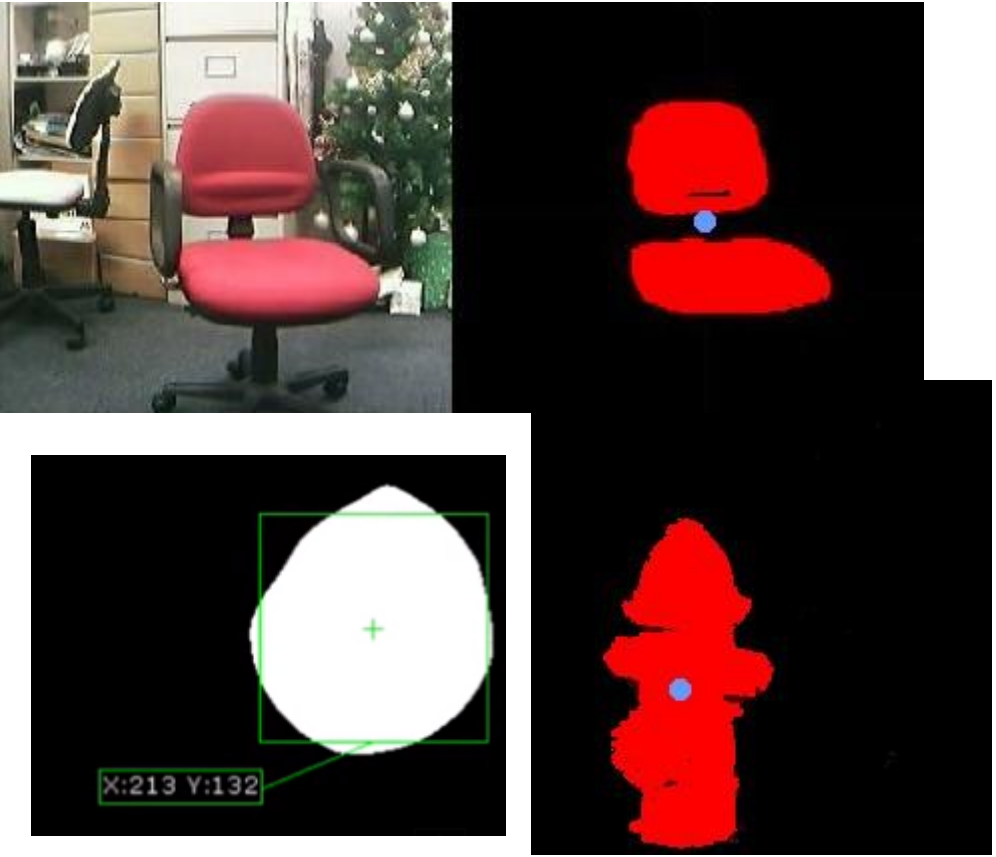
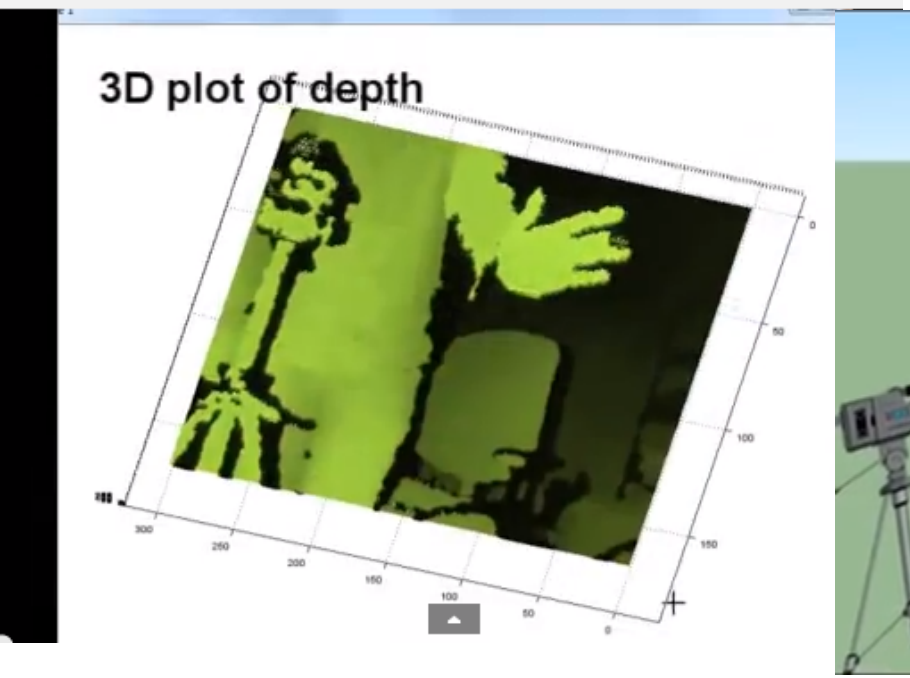



Image Source: [Society of Robots](#) - [Computer Vision Tutorial Pt 3 Computer Vision Algorithims](#)

# Depth of Field Sensing: Kinect



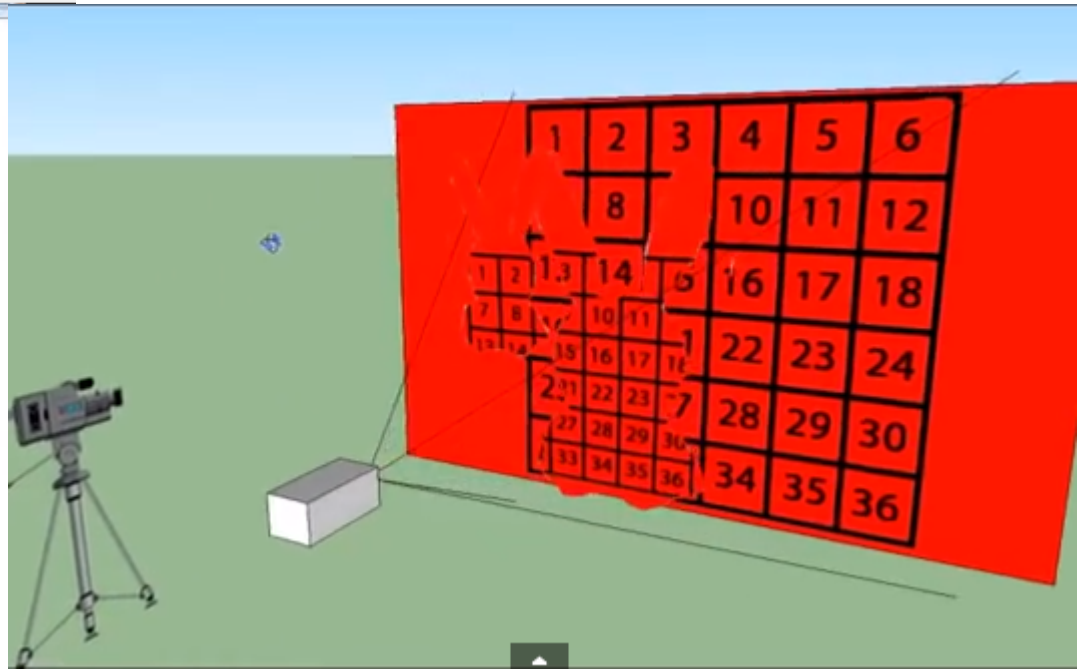



Image Source: [YouTube CuriousInventor](#) - [How the Kinect Depth Sensor Works in 2 mins](#)

# Depth of Field: Kinect Facial Recognition


Image Source: [Face Shift Studio]

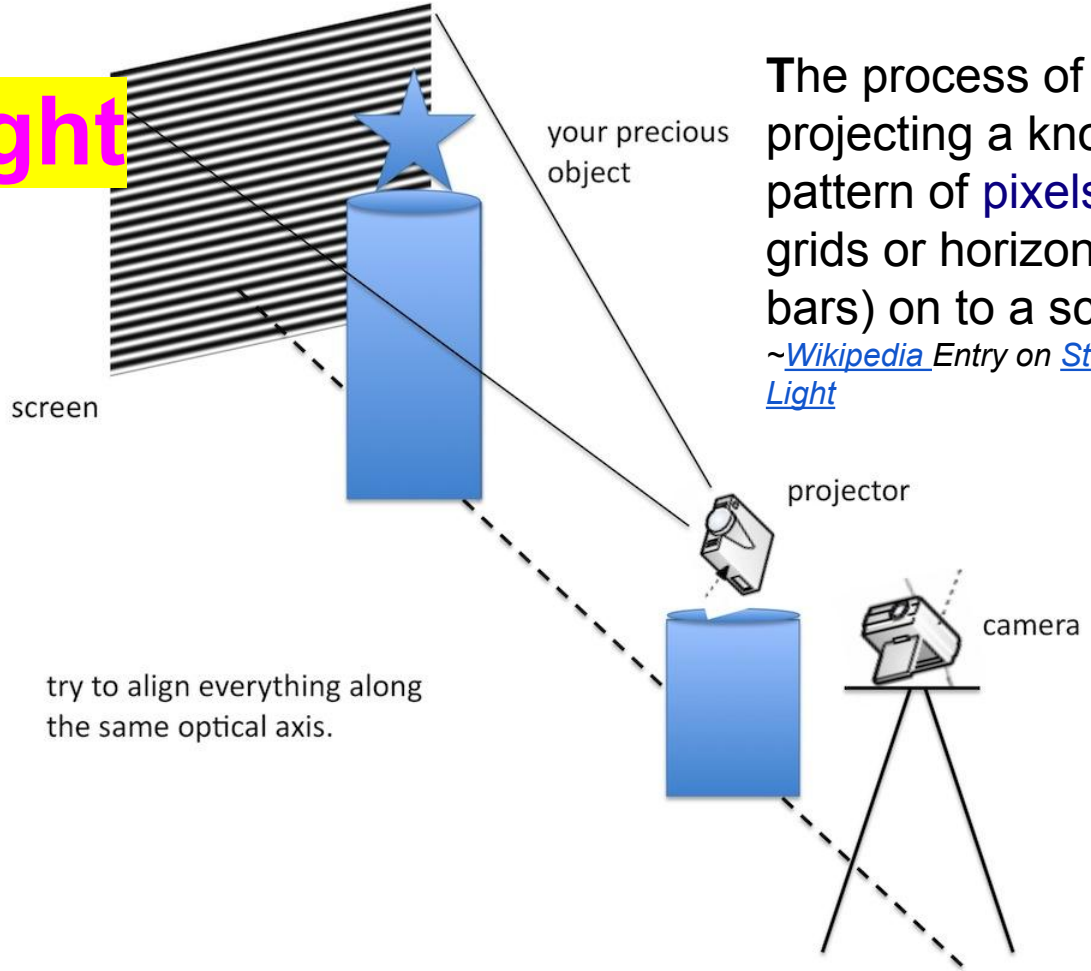
# Depth of Field:


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*

Image Source: MIT Center for Bits and Atoms- How to Scan Objects into 3D using Structured Light

# Structured Light

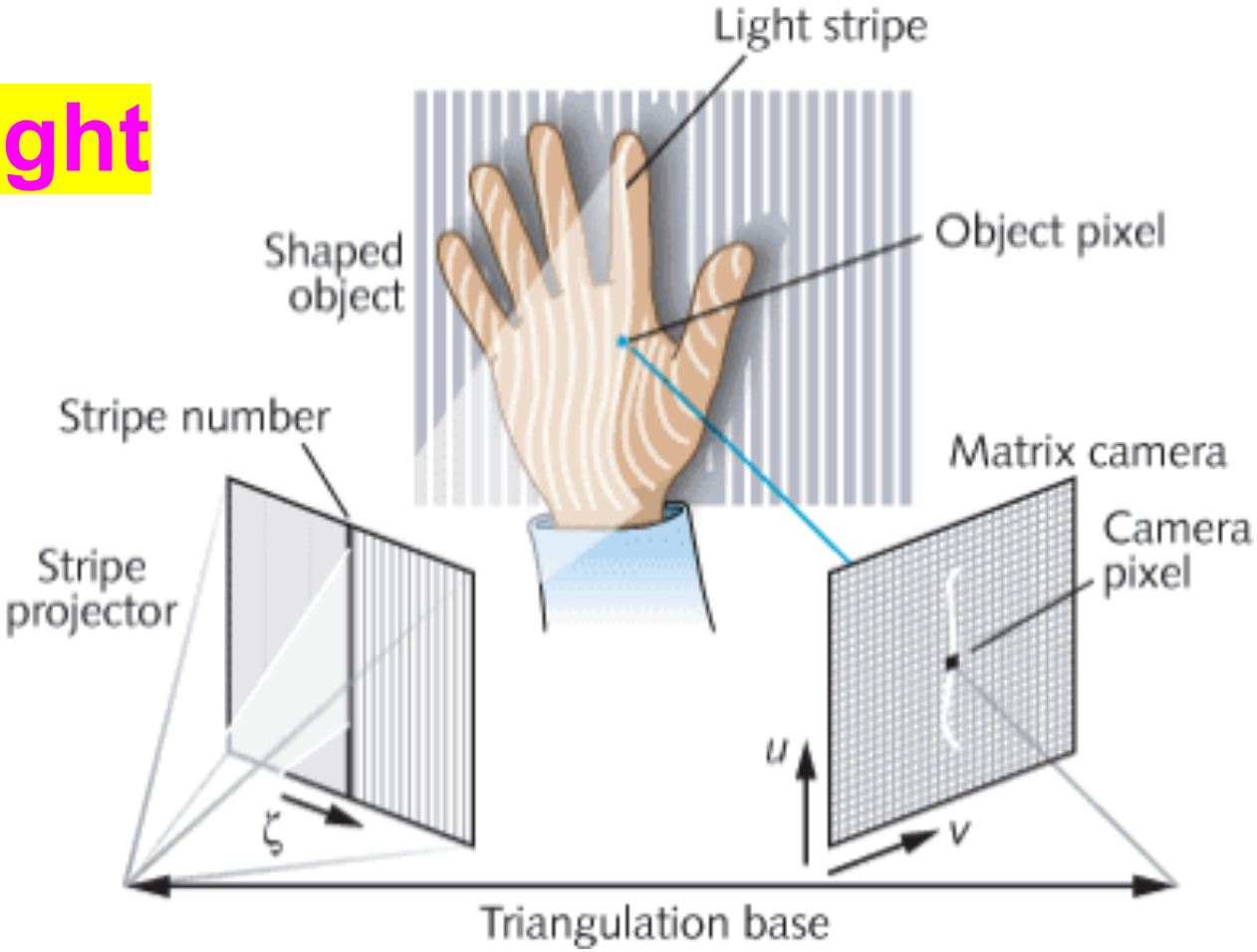



Image Source: [Laser Focus World](#)- [Photonic Frontiers: Gesture Recognition](#)
[Kyle McDonald's](#) - [Structured Light 3D Scanning](#)