

A vertical line on the left side of the slide, with a blue upper portion and a red lower portion.

# Case Study

# Real Time Colour Detection

## Key Features

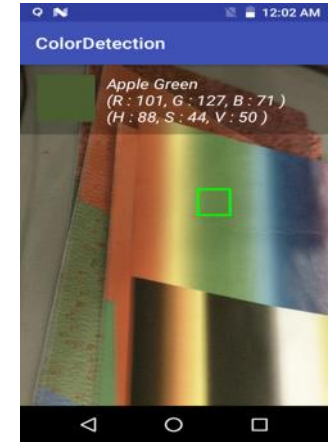
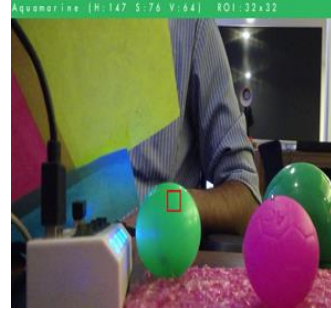
- Color detection algorithm with real time performance
- Detect as close to human vision as possible.
- High accuracy and low latency

## Highlights

- A GPGPU based algorithm designed, developed and tested on Nvidia CUDA and Snapdragon Adreno GPU
- Performance:
  - 16 ms to process 100 x 100 pixels
- Can be ported to other hardware
- Tested on a color palette of over 120 distinct colors. Customizable color palette.

## Applications

- Machine vision applications such as color sorter or food defect detector



Nvidia Jetson



Snapdragon



# THANK YOU



email: [info@ignitarium.com](mailto:info@ignitarium.com)

## Ignitarium Technology Solutions Pvt. Ltd.

Bangalore, India  
#2615, 3rd Floor,  
27th Main Road, Sector 1,  
HSR Layout,  
Bangalore – 560102  
Phone: +91-80-30723694

Kochi, India  
5th Floor, Crescens Tower,  
NH-47, Changampuzha Nagar,  
Kochi - 682033  
Phone: +91 484 2933073

## Ignitarium Inc.

United States  
2570 N. First Street,  
Suite 200 San Jose, CA 95131  
Phone: +1 512 640 3488