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EXPLORING INTERACTION

NEW MODALITIES

Computer Vision

Depth Sensors

Other sensors

COMPUTER VISION



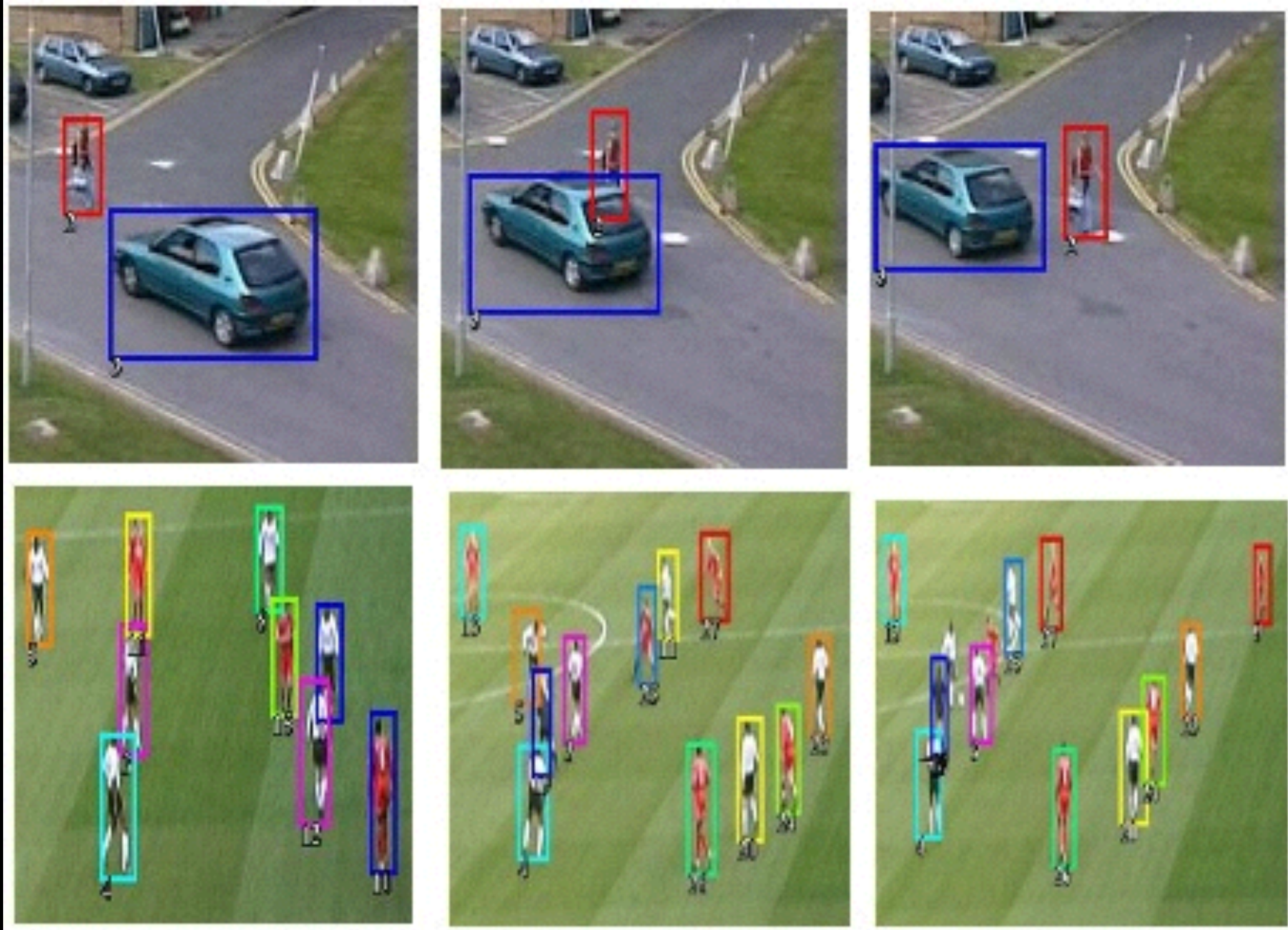
WHAT FOR?

Tracking objects

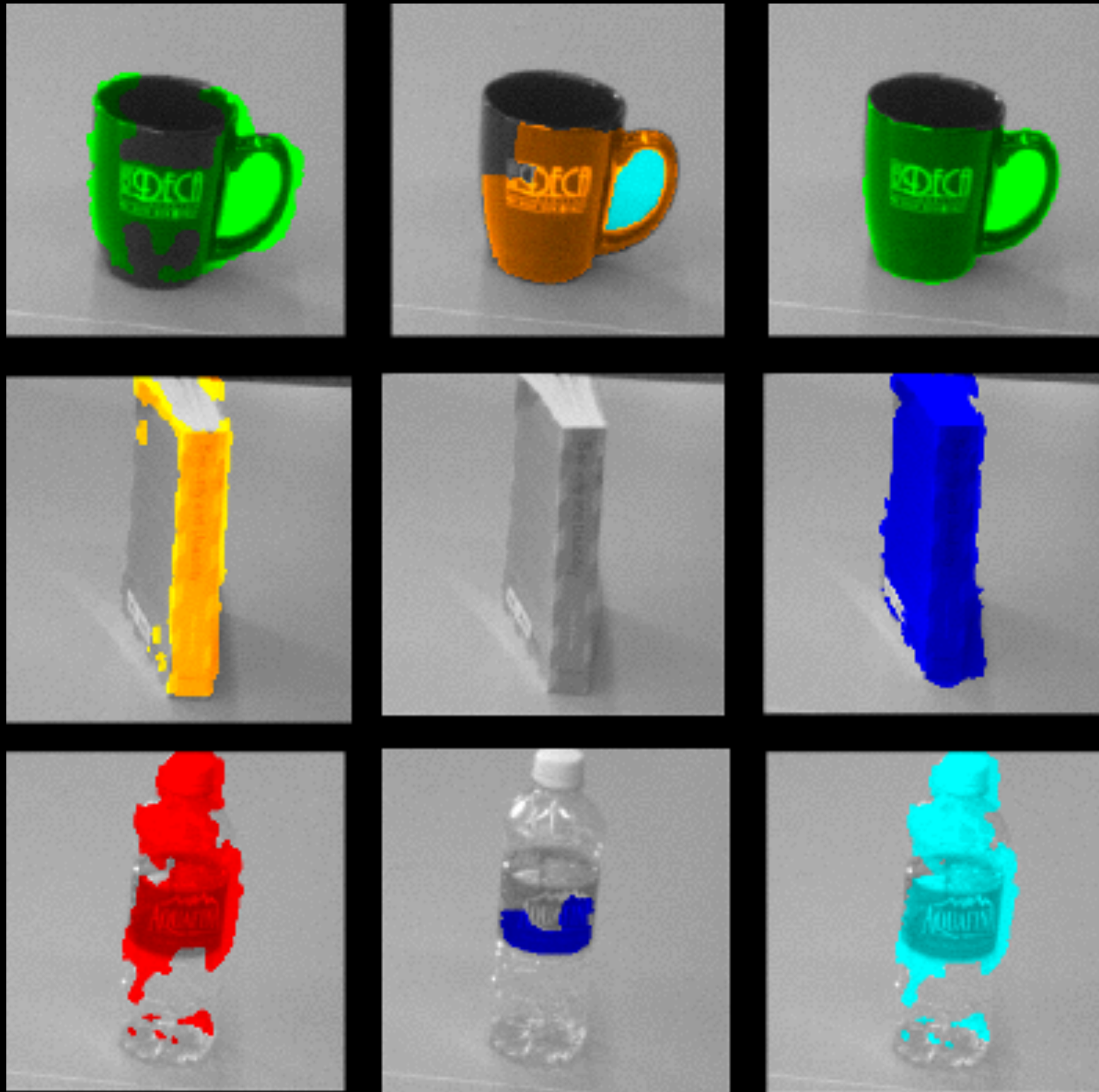
Recognizing objects

Augmented reality

TRACKING



OBJECT RECOGNITION



AUGMENTED REALITY



MUCH MORE...

Background removal

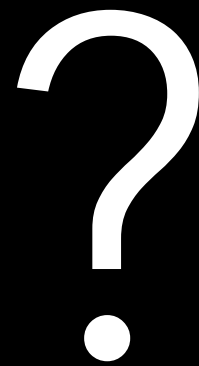
Face Tracking

Blob Tracking

Image classification

Special FX

HOW IT WORKS



See [ComputerVision.pdf](#)

COMPUTER VISION WITH PROCESSING

Built-in functions

OpenCV

Simple OpenNI

BUILT IN
GO TO EXAMPLES>TOPICS

Image processing

Blending

Blur

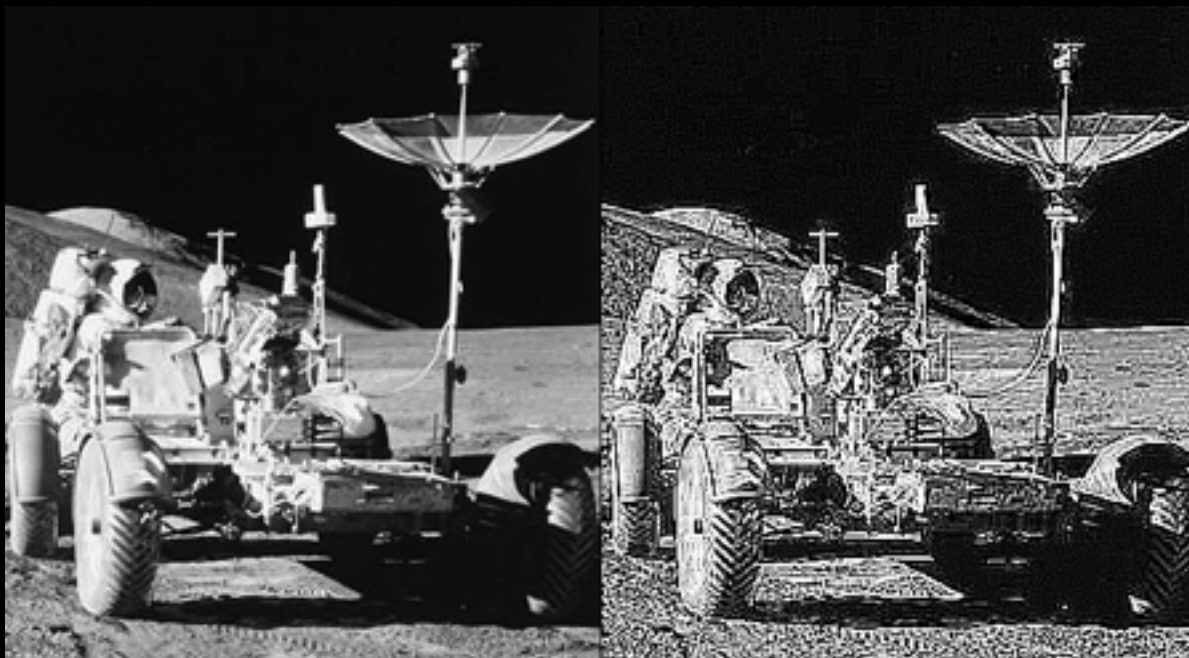
Brightness

Edge Detection

Shaders

Blur

Shader toy



OPENCV

Image operations - Filter Images

Brightest point

Face detection

Background removal

KINECT

Depth camera

Adds depth information
to normal pixels

Create a Depth image

Track gestures

Identify a skeleton

RESOURCES

opencv for processing

<http://ubaa.net/shared/processing/opencv/>

<https://github.com/atduskgreg/opencv-processing>

simpleopenni

<https://code.google.com/p/simple-openni/>