OpenCV: Open Source Computer Vision

- General Image Processing Functions
- Image Pyramids
- Geometric descriptors
- Camera calibration, Stereo, 3D
- Segmentation
- Features
- Utilities and Data Structures
- Transforms
- Tracking
- Fitting

Machine Learning:
- Detection
- Recognition

Matrix Math

http://docs.opencv.org
OpenCV for Android

- Port of OpenCV to Android platform
  - Over 2K optimized algorithms written in C/C++
  - Compiled with STL-enabled Android NDK
  - Enables popular CV functions to be used on mobile images/videos

- Differences from regular Android programming
  - Requires writing C/C++ code
  - Requires writing Java Native Interface (JNI) wrappers
  - Requires using Android NDK in addition to Android SDK

- Our Tutorial #2 helps to make the transition
  - How to set up OpenCV programming environment
  - How to write Android apps that call OpenCV functions
  - How to integrate NDK compilation into Eclipse IDE