# iOS Application Development with OpenCV 3

*Joseph Howse*

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**iOS Application Development with OpenCV 3** Joseph Howse

**Key Features**

- Efficiently harness iOS and OpenCV to capture and process high-quality images at high speed
- Develop photographic apps and augmented reality apps quickly and easily
- Detect, recognize, and morph faces and objects

**Book Description**

iOS Application Development with OpenCV 3 enables you to turn your smartphone camera into an advanced tool for photography and computer vision. Using the highly optimized OpenCV library, you will process high-resolution images in real time. You will locate and classify objects, and create models of their geometry. As you develop photo and augmented reality apps, you will gain a general understanding of iOS frameworks and developer tools, plus a deeper understanding of the camera and image APIs.

After completing the book's four projects, you will be a well-rounded iOS developer with valuable experience in OpenCV.

**What you will learn**

- Use Xcode and Interface Builder to develop iOS apps
- Obtain OpenCV's standard modules and build extra modules from source
- Control all the parameters of the iOS device's camera
- Capture, save, and share photos and videos
- Analyze colors, shapes, and textures in ordinary and specialized photographs
- Blend and compare images to create special photographic effects and augmented reality tools
- Detect faces and morph facial features
- Classify coins and other objects

**About the Author**

**Joseph Howse** lives in Canada. During the cold winters, he grows a beard and his four cats grow thick coats of fur. He combs the cats every day. Sometimes the cats pull his beard.

Joseph has been writing for Packt Publishing since 2012. His books include OpenCV for Secret Agents, OpenCV 3 Blueprints, Android Application Programming with OpenCV 3, iOS Application Development with OpenCV 3, Learning OpenCV 3 Computer Vision with Python, and Python Game Programming by Example.

When he is not writing books or grooming cats, Joseph provides consulting, training, and software development services through his company, Nummist Media (http://nummist.com/).

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3. Blending Images
4. Detecting and Merging Faces of Mammals
5. Classifying Coins and Commodities

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