



# Chapter 01 Introduction To Opencv And Qt Packtpub

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## Chapter 01 Introduction To Opencv And Qt Packtpub:

Computer Vision with OpenCV 3 and Qt5 Amin Ahmadi Tazehkandi,2018-01-02 Blend the power of Qt with OpenCV to build cross platform computer vision applications Key Features Start creating robust applications with the power of OpenCV and Qt combined Learn from scratch how to develop cross platform computer vision applications Accentuate your OpenCV applications by developing them with Qt Book Description Developers have been using OpenCV library to develop computer vision applications for a long time However they now need a more effective tool to get the job done and in a much better and modern way Qt is one of the major frameworks available for this task at the moment This book will teach you to develop applications with the combination of OpenCV 3 and Qt5 and how to create cross platform computer vision applications We ll begin by introducing Qt its IDE and its SDK Next you ll learn how to use the OpenCV API to integrate both tools and see how to configure Qt to use OpenCV You ll go on to build a full fledged computer vision application throughout the book Later you ll create a stunning UI application using the Qt widgets technology where you ll display the images after they are processed in an efficient way At the end of the book you ll learn how to convert OpenCV Mat to Qt QImage You ll also see how to efficiently process images to filter them transform them detect or track objects as well as analyze video You ll become better at developing OpenCV applications What you will learn Get an introduction to Qt IDE and SDK Be introduced to OpenCV and see how to communicate between OpenCV and Qt Understand how to create UI using Qt Widgets Learn to develop cross platform applications using OpenCV 3 and Qt 5 Explore the multithreaded application development features of Qt5 Improve OpenCV 3 application development using Qt5 Build test and deploy Qt and OpenCV apps either dynamically or statically See Computer Vision technologies such as filtering and transformation of images detecting and matching objects template matching object tracking video and motion analysis and much more Be introduced to QML and Qt Quick for iOS and Android application development Who this book is for This book is for readers interested in building computer vision applications Intermediate knowledge of C programming is expected Even though no knowledge of Qt5 and OpenCV 3 is assumed if you re familiar with these frameworks you ll benefit

**Practical OpenCV** Samarth Brahmhatt,2013-11-19 Practical OpenCV is a hands on project book that shows you how to get the best results from OpenCV the open source computer vision library Computer vision is key to technologies like object recognition shape detection and depth estimation OpenCV is an open source library with over 2500 algorithms that you can use to do all of these as well as track moving objects extract 3D models and overlay augmented reality It s used by major companies like Google in its autonomous car Intel and Sony and it is the backbone of the Robot Operating System s computer vision capability In short if you re working with computer vision at all you need to know OpenCV With Practical OpenCV you ll be able to Get OpenCV up and running on Windows or Linux Use OpenCV to control the camera board and run vision algorithms on Raspberry Pi Understand what goes on behind the scenes in computer vision applications like object detection image stitching filtering stereo vision and more Code complex computer

vision projects for your class hobby robot job many of which can execute in real time on off the shelf processors Combine different modules that you develop to create your own interactive computer vision app What you ll learn The ins and outs of OpenCV programming on Windows and Linux Transforming and filtering images Detecting corners edges lines and circles in images and video Detecting pre trained objects in images and video Making panoramas by stitching images together Getting depth information by using stereo cameras Basic machine learning techniques BONUS Learn how to run OpenCV on Raspberry Pi Who this book is for This book is for programmers and makers with little or no previous exposure to computer vision Some proficiency with C is required Table of ContentsPart 1 Getting comfortable Chapter 1 Introduction to Computer Vision and OpenCV Chapter 2 Setting up OpenCV on your computer Chapter 3 CV Bling OpenCV inbuilt demos Chapter 4 Basic operations on images and GUI windows Part 2 Advanced computer vision problems and coding them in OpenCV Chapter 5 Image filtering Chapter 6 Shapes in images Chapter 7 Image segmentation and histograms Chapter 8 Basic machine learning and keypoint based object detection Chapter 9 Affine and Perspective transformations and their applications to image panoramas Chapter 10 3D geometry and stereo vision Chapter 11 Embedded computer vision Running OpenCV programs on the Raspberry Pi *OpenCV Essentials* Oscar Deniz Suarez,M<sup>a</sup> del Milagro Fernández Carrolles,Noelia Vázquez Enano,Gloria Bueno García,Ismael Serrano Gracia,Julio Alberto Patón Incertis,Jesus Salido Tercero,2014-08-25 This book is intended for C developers who want to learn how to implement the main techniques of OpenCV and get started with it quickly Working experience with computer vision image processing is expected **Qt 5 and OpenCV 4 Computer Vision Projects** Zhuo Qingliang,2019-06-21 Create image processing object detection and face recognition apps by leveraging the power of machine learning and deep learning with OpenCV 4 and Qt 5 Key FeaturesGain practical insights into code for all projects covered in this bookUnderstand modern computer vision concepts such as character recognition image processing and modificationLearn to use a graphics processing unit GPU and its parallel processing power for filtering images quicklyBook Description OpenCV and Qt have proven to be a winning combination for developing cross platform computer vision applications By leveraging their power you can create robust applications with both an intuitive graphical user interface GUI and high performance capabilities This book will help you learn through a variety of real world projects on image processing face and text recognition object detection and high performance computing You ll be able to progressively build on your skills by working on projects of increasing complexity You ll begin by creating an image viewer application building a user interface from scratch by adding menus performing actions based on key presses and applying other functions As you progress the book will guide you through using OpenCV image processing and modification functions to edit an image with filters and transformation features In addition to this you ll explore the complex motion analysis and facial landmark detection algorithms which you can use to build security and face detection applications Finally you ll learn to use pretrained deep learning models in OpenCV and GPUs to filter images quickly By the

end of this book you will have learned how to effectively develop full fledged computer vision applications with OpenCV and Qt What you will learn Create an image viewer with all the basic requirements Construct an image editor to filter or transform images Develop a security app to detect movement and secure homes Build an app to detect facial landmarks and apply masks to faces Create an app to extract text from scanned documents and photos Train and use cascade classifiers and DL models for object detection Build an app to measure the distance between detected objects Implement high speed image filters on GPU with Open Graphics Library OpenGL Who this book is for This book is for engineers and developers who are familiar with both Qt and OpenCV frameworks and are capable of creating simple projects using them but want to build their skills to create professional level projects using them Familiarity with the C language is a must to follow the example source codes in this book

**Learn OpenCV 4 by Building Projects** David Millán Escrivá, Vinícius G. Mendonça, Prateek Joshi, 2018-11-30 Explore OpenCV 4 to create visually appealing cross platform computer vision applications Key Features Understand basic OpenCV 4 concepts and algorithms Grasp advanced OpenCV techniques such as 3D reconstruction machine learning and artificial neural networks Work with Tesseract OCR an open source library to recognize text in images Book Description OpenCV is one of the best open source libraries available and can help you focus on constructing complete projects on image processing motion detection and image segmentation Whether you re completely new to computer vision or have a basic understanding of its concepts Learn OpenCV 4 by Building Projects Second edition will be your guide to understanding OpenCV concepts and algorithms through real world examples and projects You ll begin with the installation of OpenCV and the basics of image processing Then you ll cover user interfaces and get deeper into image processing As you progress through the book you ll learn complex computer vision algorithms and explore machine learning and face detection The book then guides you in creating optical flow video analysis and background subtraction in complex scenes In the concluding chapters you ll also learn about text segmentation and recognition and understand the basics of the new and improved deep learning module By the end of this book you ll be familiar with the basics of Open CV such as matrix operations filters and histograms and you ll have mastered commonly used computer vision techniques to build OpenCV projects from scratch What you will learn Install OpenCV 4 on your operating system Create CMake scripts to compile your C application Understand basic image matrix formats and filters Explore segmentation and feature extraction techniques Remove backgrounds from static scenes to identify moving objects for surveillance Employ various techniques to track objects in a live video Work with new OpenCV functions for text detection and recognition with Tesseract Get acquainted with important deep learning tools for image classification Who this book is for If you are a software developer with a basic understanding of computer vision and image processing and want to develop interesting computer vision applications with OpenCV Learn OpenCV 4 by Building Projects for you Prior knowledge of C will help you understand the concepts covered in this book

**OpenCV 2** Robert Laganière, 2011

## Reviewing **Chapter 01 Introduction To Opencv And Qt Packtpub**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Chapter 01 Introduction To Opencv And Qt Packtpub**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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