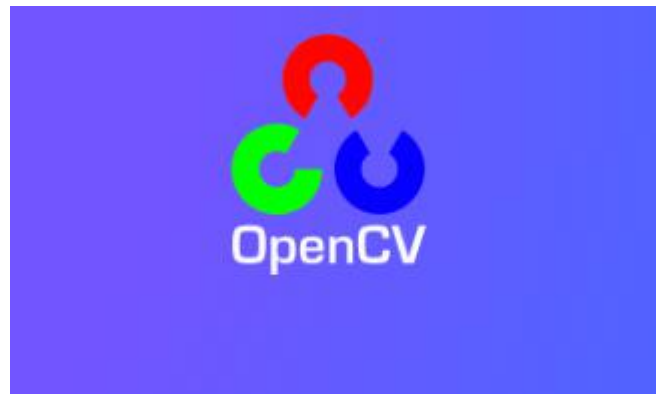### 1.1.1 Introduction of OpenCV

The full name of OpenCV is "Open Source Computer Vision Library", as shown in the figure above, it is the logo of OpenCV. You can see that it is composed of three small rings of three primary colors: R, G, and B. OpenCV is a set of open source API function library about computer vision.

Features:
(1) Whether it is scientific research or commercial application, it can be used for development;
(2) The source code of all API functions is public, you can see its internal program;
(3) You can modify the source code of OpenCV, compile and generate the specific API functions you need.

Image processing function of Raspblock uses some functions of the OpenCV function library. OpenCV has been used in intrusion detection, target tracking, target detection, face detection, face recognition, face tracking and other fields.
In this course we will introduce some basic image processing functions used in the course, as well as some general functions.
If you are interested in the development of the Opencv computer vision library and want to learn more about it, some websites link for your reference and study:

OpenCV official homepage: https://www.opencv.org
OpenCV Chinese forum: http://www.opencv.org.cn
OpenCV CSDN forum: https://bbs.csdn.net/forums/OpenCV