

## 16、Contour detection

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### 16.1、Use

Source code launch file path: ~/jetcobot\_ws/src/opencv\_apps/launch

Step 1: Start the camera

```
roslaunch jetcobot_visual opencv_apps.launch img_flip:=false
```

- img\_flip parameters: Whether the image needs to be flipped horizontally, the default is false.

Step 2: Start the corner detection function of Opencv\_apps

```
roslaunch opencv_apps find_contours.launch # Contour detection
```

Each functional case will have a parameter [debug\_view], Boolean type, whether to use Opencv to display images, which is displayed by default.

If no display is required, set it to [False], for example

```
roslaunch opencv_apps contour_moments.launch debug_view:=False
```

However, after starting in this way, some cases cannot be displayed in other ways, because in the source code, some [debug\_view] is set to [False], which will turn off image processing.

### 16.2、Display method

- rqt\_image\_view

Enter the following command to select the corresponding topic

```
rqt_image_view
```

- opencv

The system displays it by default and no processing is required.

### 16.3、Effect display

You can drag the slider to view the outline of the screen.

Demo code to find contours in an image

Canny thresh: 10

