

# Image pyramid sampling algorithm

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## 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` parameter: whether the image needs to be flipped horizontally, the default is false.

`[usb_cam-test.launch]` file opens the `[web_video_server]` node by default, and you can directly use the `[IP:8080]` web page to view images in real time.

Step 2: Start the corner detection function of `Opencv_apps`

```
roslaunch opencv_apps pyramids.launch # Image pyramid
sampling algorithm
```

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.

## 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, no need to do anything.

- Web viewing

(Same as LAN) Enter IP+port in the browser, for example:

```
192.168.2.116:8080
```

For specific IP, use your current virtual machine IP.

### 3. Effect display

Effect picture:

