```
#!/usr/bin/env python
In [1]:
         # coding: utf-8
         import Arm_Lib
         import cv2 as cv
         import threading
         from time import sleep
         import ipywidgets as widgets
         from IPython.display import display
         from single_garbage_identify import single_garbage_identify
         single garbage = single garbage identify()
In [2]:
         model = "General"
        WARNING:tensorflow:From /home/dofbot/Dofbot/6.AI Visual/garbage identify.py:4
        1: The name tf.keras.backend.get_session is deprecated. Please use tf.compat.v
        1.keras.backend.get_session instead.
        /home/dofbot/dofbot ws/src/dofbot garbage yolov4 tiny/model data/garbage.h5 mo
        del, anchors, and classes loaded.
In [3]:
                            = widgets.Layout(width='320px', height='60px', align self=
         button layout
         output = widgets.Output()
         # Exit
         exit button = widgets.Button(description='Exit', button style='danger', layou
         imgbox = widgets.Image(format='jpg', height=480, width=640, layout=widgets.La
         controls_box = widgets.VBox([imgbox, exit_button], layout=widgets.Layout(alig
In [4]:
         def exit button Callback(value):
             global model
             model = 'Exit'
             with output: print(model)
         exit_button.on_click(exit_button_Callback)
         def camera():
In [5]:
             # Open camera
             capture = cv.VideoCapture(0)
             # Loop execution when the camera is opened normally
             while capture.isOpened():
                 try:
                     _, img = capture.read()
                     img = cv.resize(img, (640, 480))
                     img = single garbage.single garbage run(img)
                     if model == 'Exit':
                         cv.destroyAllWindows()
                         capture.release()
                         break
                     imgbox.value = cv.imencode('.jpg', img)[1].tobytes()
                 except KeyboardInterrupt:capture.release()
         # Please place the building block in the center of the cross (the picture is
In [6]:
         display(controls box,output)
```

threading.Thread(target=camera,).start()

In []:	
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