3.AR vision

There are a total of 12 AR effects in this case:

```
["Triangle", "Rectangle",
"Parallelogram","WindMill","TableTennisTable","Ball","Arrow", "Knife",
"Desk","Bench", "Stickman", "ParallelBars"]
```

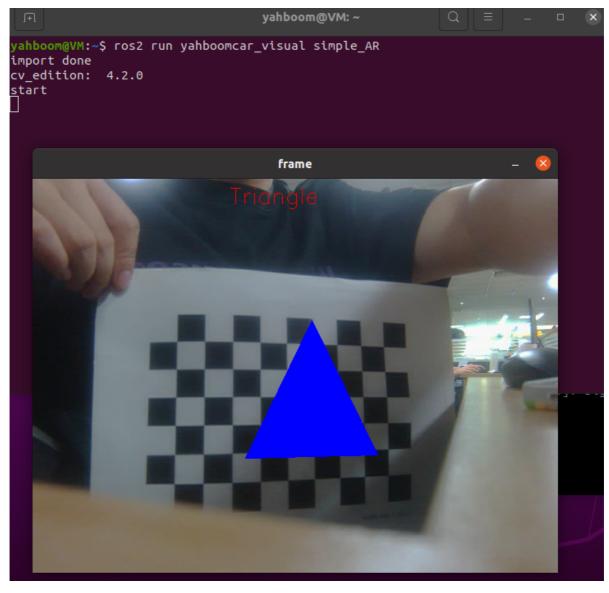
1. Start up

Code path:

```
~/orbbec_ws/src/yahboomcar_visual/yahboomcar_visual/simple_AR.py
```

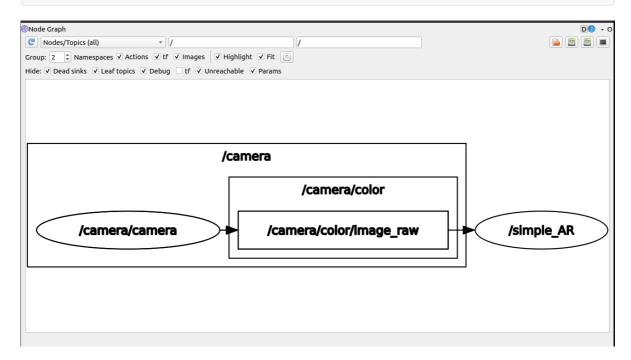
Input following command to start camera:

```
ros2 launch orbbec_camera dabai_dcw2.launch.py
ros2 run yahboomcar_visual simple_AR
```



To view communication between topics, input following command:

ros2 run rqt_graph rqt_graph



View topic data list, input following command:

```
ros2 topic list
```

```
yahboom@VM:~$ ros2 topic list
/Graphics_topic
/camera/color/camera_info
/camera/depth/camera_info
/camera/depth/image_raw
/camera/depth/points
/camera/depth_registered/points
/camera/ir/camera_info
/camera/ir/image_raw
/parameter_events
/rosout
/simpleAR/camera
/tf
/tf_static
```

- /Graphics_ Topic: The topic name of the effect, and the effect that needs to be recognized for subscription.
- /simpleAR/camera: The topic name of the image, publishing the image.

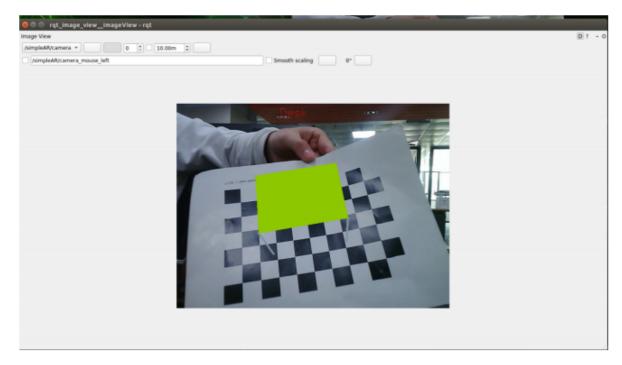
You can modify the effect by using the following command.

For example, modify to Desk and input commands at the terminal

```
ros2 topic pub /Graphics_topic std_msgs/msg/String "data: Desk"
```

We can use rqt_image_view to view the published images, input commands at the terminal

```
ros2 run rqt_image_view rqt_image_view
```



Select/simpleAR/camera in the top left corner of the topic to view the image.