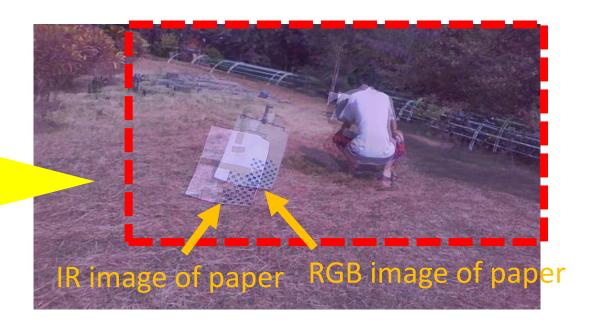
Explanation of Project Modules



Combine



• SIFT Feature



getPerspectiveTransform() from opencv3.4

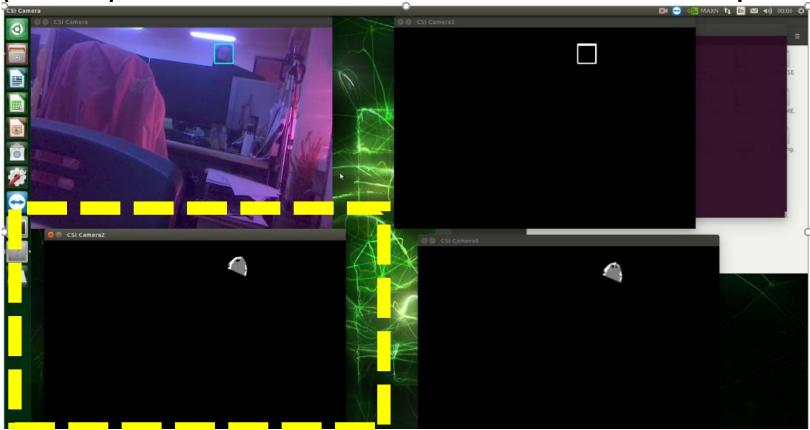
```
[[ 6.04176864e-01 -5.95934596e-01 1.58909192e+02]
[-3.02047643e-02 1.37485661e-01 1.88985244e+02]
[-1.53784244e-05 -1.19517968e-03 1.00000000e+00]]
```

warpPerspective() from opencv3.4



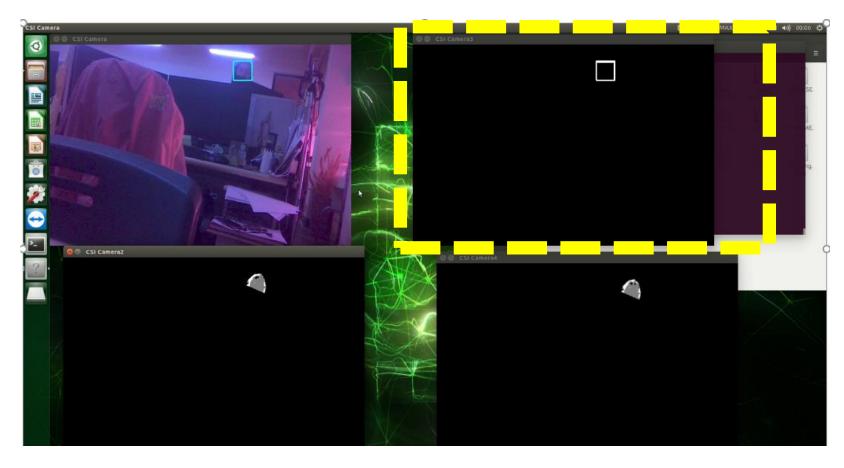
Object Detection

 Using Background Subtraction (BackgroundSubtractorMOG2 Class from opency3.4

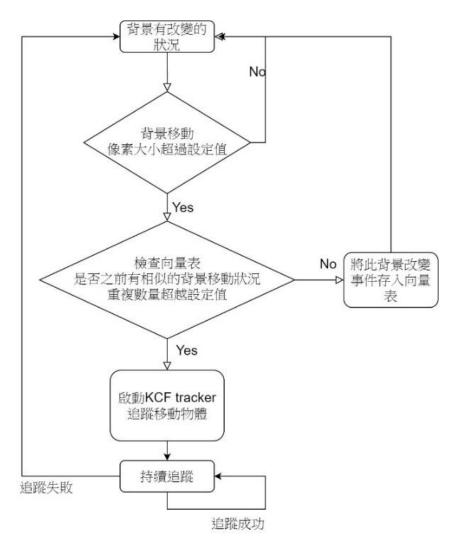


Object Detection

approxPolyDP() from opencv3.4

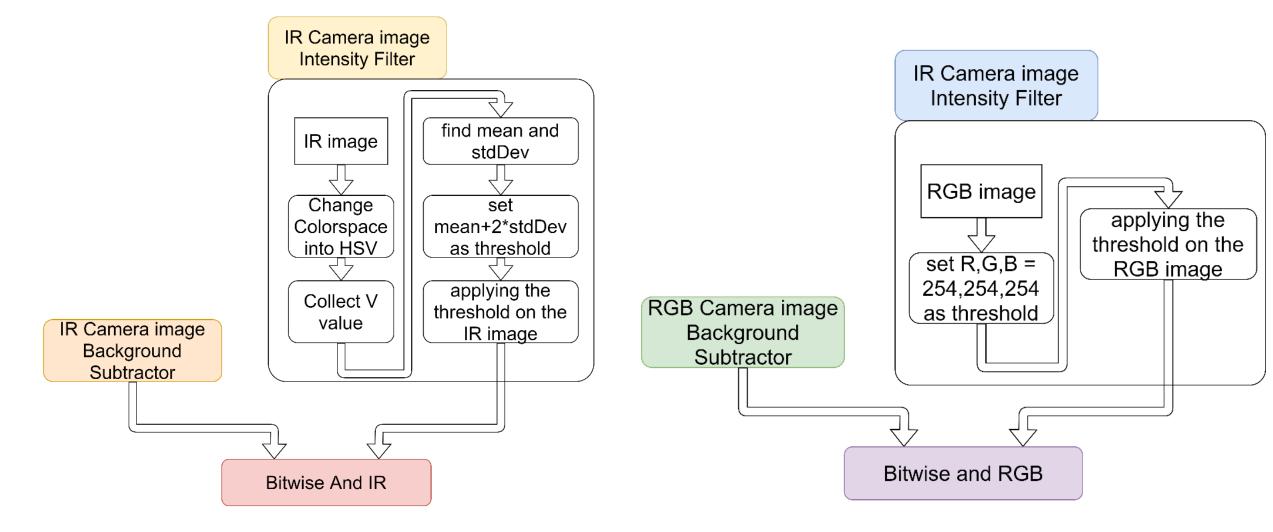


Object Tracking

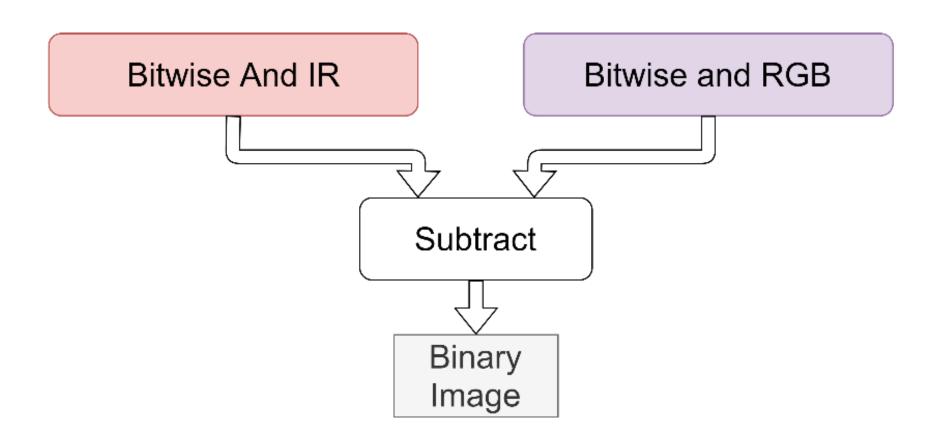


- KCF tracker: "High-Speed Tracking with Kernelized Correlation Filters"
- I use Opency library of TrackerKCF class from opency3.4

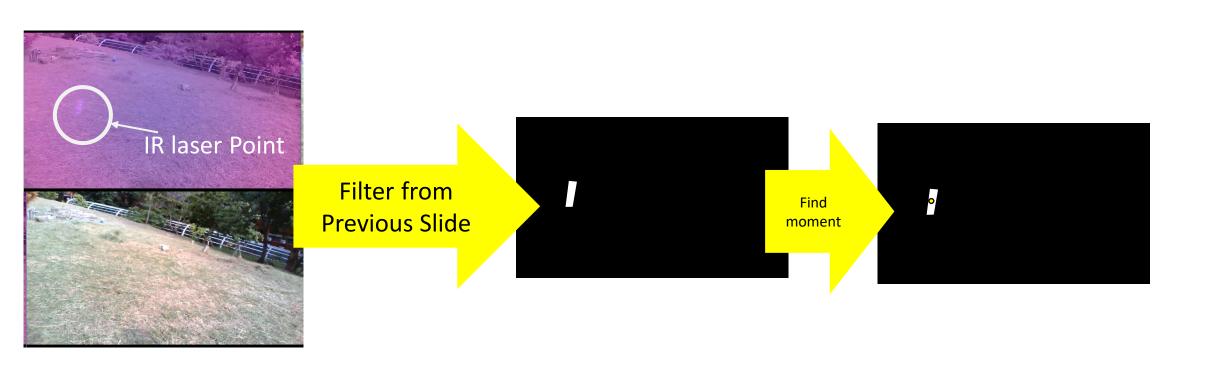
Laser Positioning



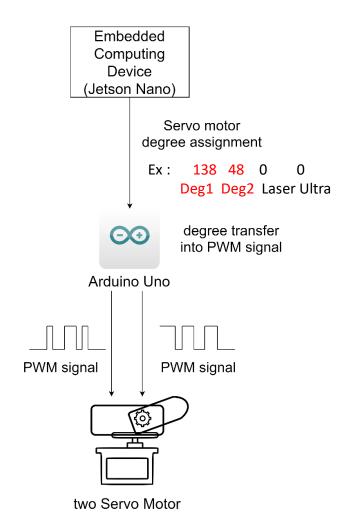
Laser Positioning

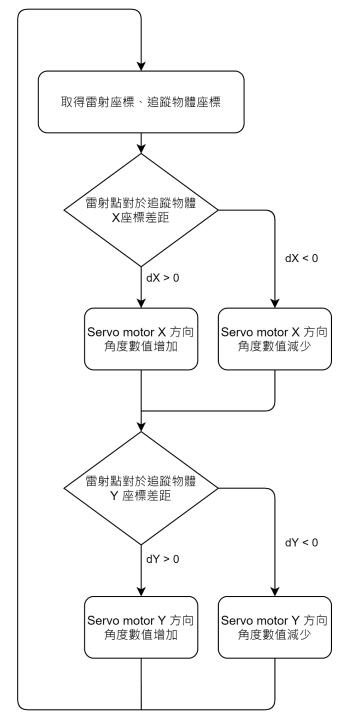


Laser Positioning



Motor Control





Drive animal away method

