

嵌入式系統設計 final project

Group_26

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Reference

- OpenCV example
 - <https://github.com/spmallick/learnopencv> (<https://github.com/spmallick/learnopencv>).
- darknet
 - <https://github.com/AlexeyAB/darknet?tab=readme-ov-file#you-only-look-once-unified-real-time-object-detection-versions-2--3>
(<https://github.com/AlexeyAB/darknet?tab=readme-ov-file#you-only-look-once-unified-real-time-object-detection-versions-2--3>).

Code

- 基本上 example 複製貼上 output 改成 framebuffer
- Performance 的部份調整 blobFromImage 的 size 即可
- real-time 的模型用 yolov3-tiny, 照片的用 yolov3
- 照片的 code 是 performance.cpp , 用 argv 調參數
- real-time 是 yolo_final.cpp

```
# real-time
LD_LIBRARY_PATH=. ./demo 1280 720 1 config/yolov3-tiny.cfg
config/yolov3-tiny.weights 160 0.1 0.1 0.1

# 12 items ~= 2m30s
time LD_LIBRARY_PATH=. ./performance 0.1 0.1 0.1 config/yolov3.cfg
config/yolov3.weights 0 416

# class wide performance ~= 15 second
time LD_LIBRARY_PATH=. ./performance 0.1 0.1 0.1 config/yolov3.cfg
config/yolov3.weights 0 128
```