kaka-lin / object-detection

Object detection with ssd_mobilenet and tiny-yolo (Add: YOLOv3, tflite)

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kaka-lin Update: README.md ... on 5 Mar 21

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README.md

Object Detection

- training:
  - yolov2-tf2
  - yolov3-tf2
- model (Inference):
  - tiny-YOLOv2
  - YOLOv3
  - SSD-MobileNet v1
  - SSDLite-MobileNet v2 (tflite)

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- download the tiny-yolo file and put it to model_data file

```
$ python3 test_tiny_yolo.py
```

2. YOLOv3

- download the yolov3 file and put it to model_data file

```
$ python3 test_yolov3.py
```

3. SSD-MobileNet v1

```
$ python3 test_ssd_mobilenet_v1.py
```

4. SSDLite-MobileNet v2 (tflite)

- download the ssdlite-mobilenet-v2 file and put it to model_data file

```
$ python3 test_ssdlite_mobilenet_v2.py
```

Compare

- tiny-YOLOv2

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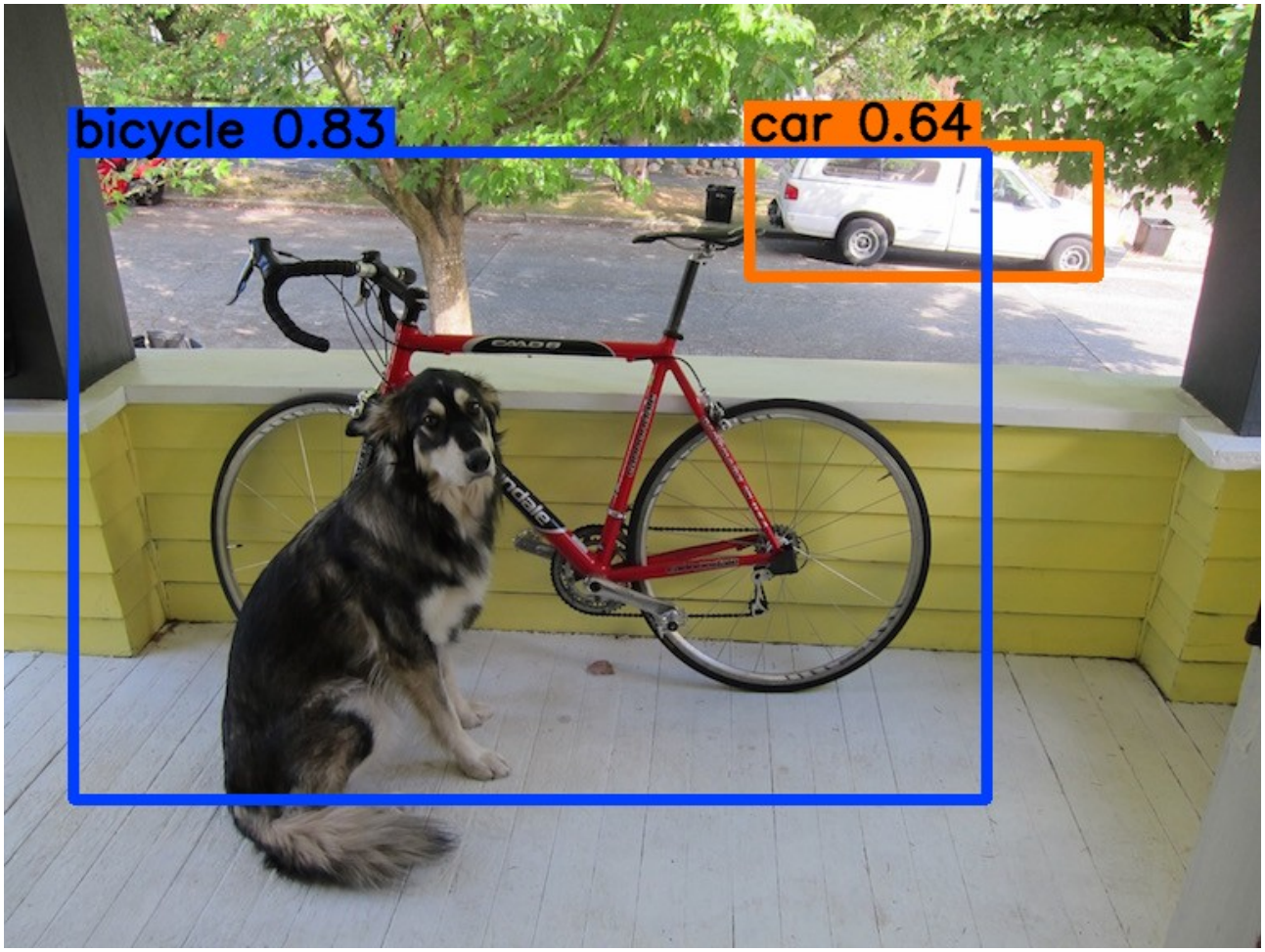

- YOLOv3

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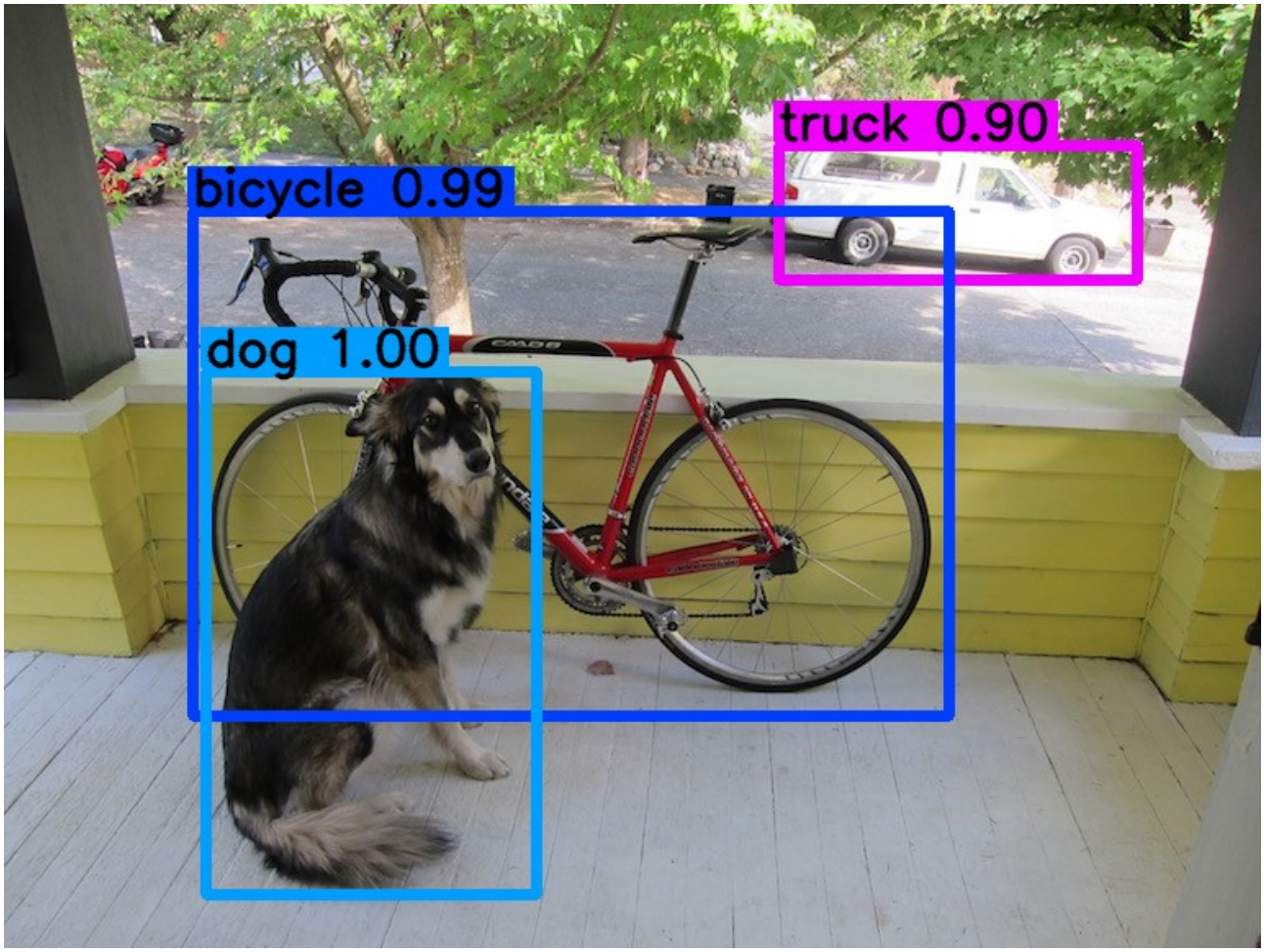

- SSD-MobileNet v1

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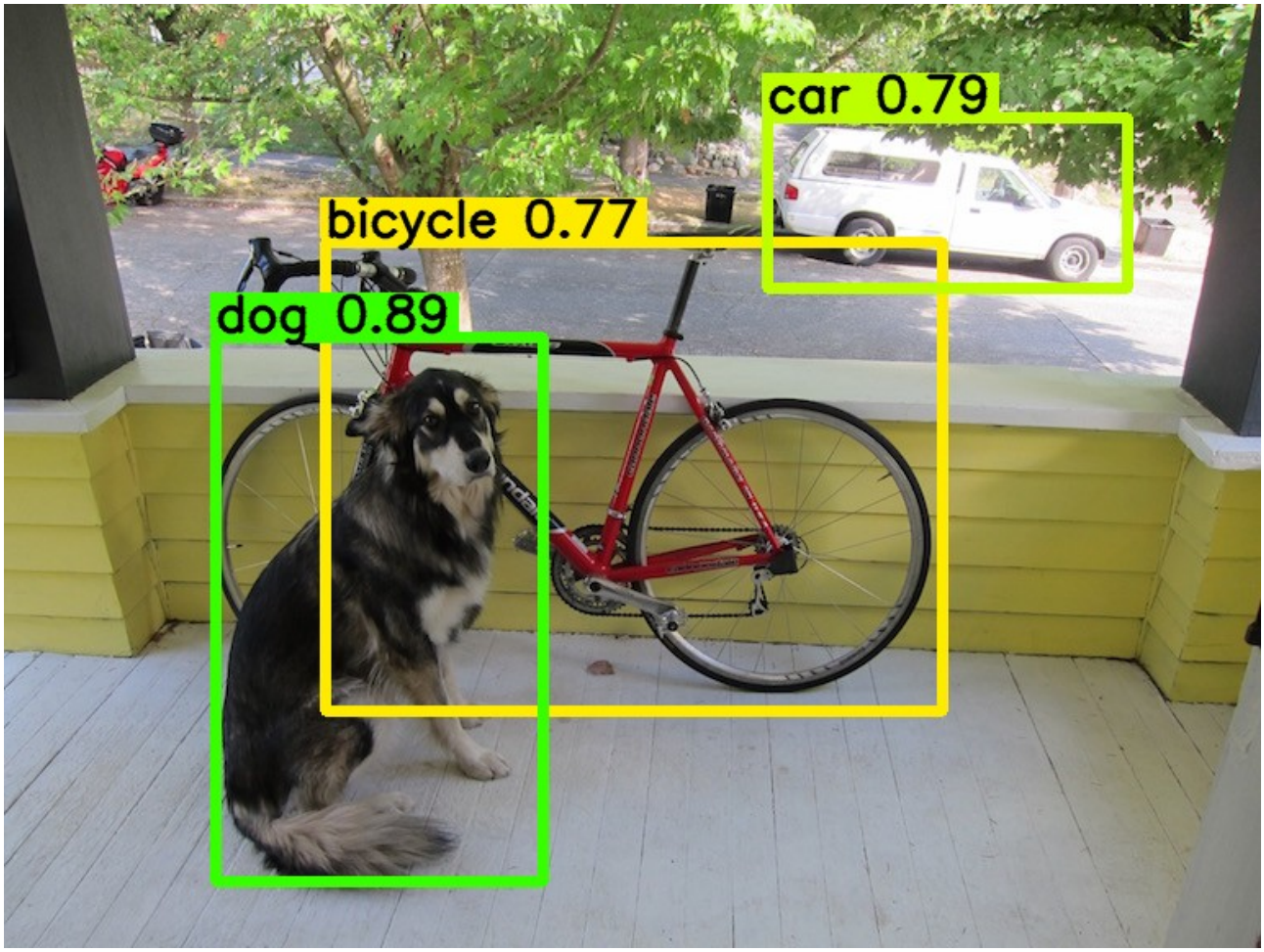

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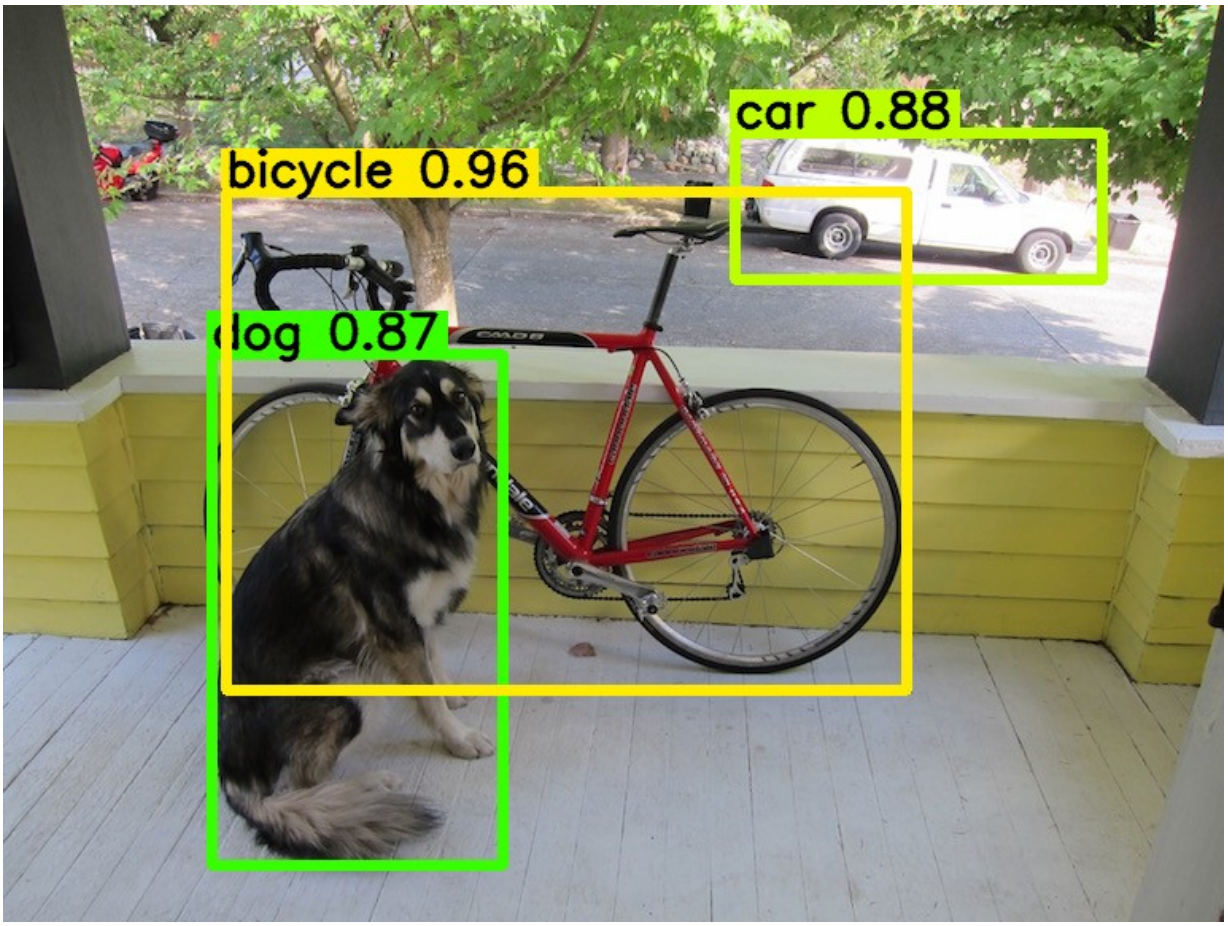
- SSDLite-MobileNet v2 (tflite)



Acknowledgments

- Thanks to keras-yolo3 for yolov3-keras part.
- Thanks to mobile-object-detector-with-tensorflow-lite for ssdlite-mobilenet-v2 part.

Releases

No releases published

Packages

No packages published

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