



ML Kit

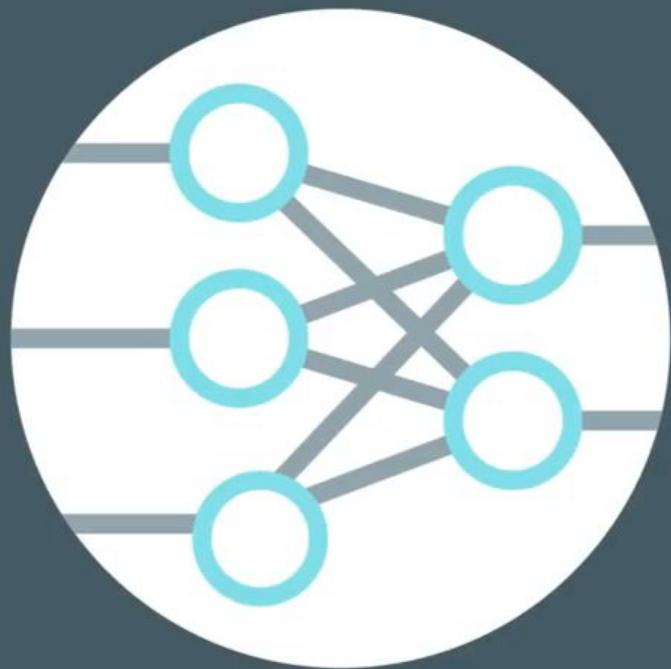


Face  
Detected



That's a  
Bee!

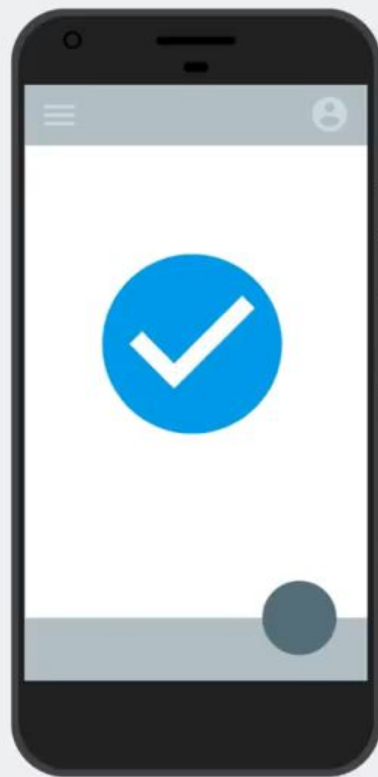






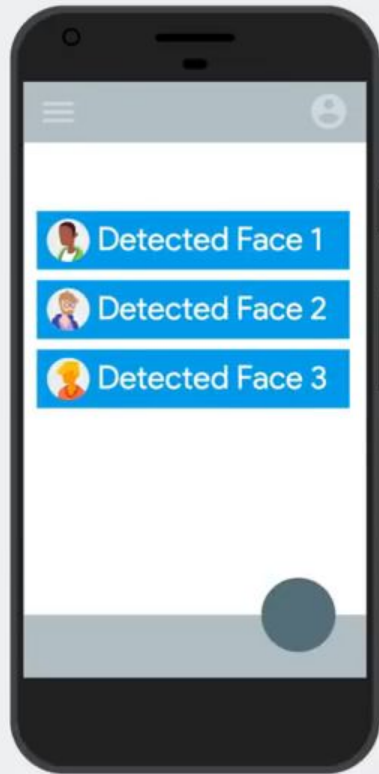
ML Kit  
for Firebase

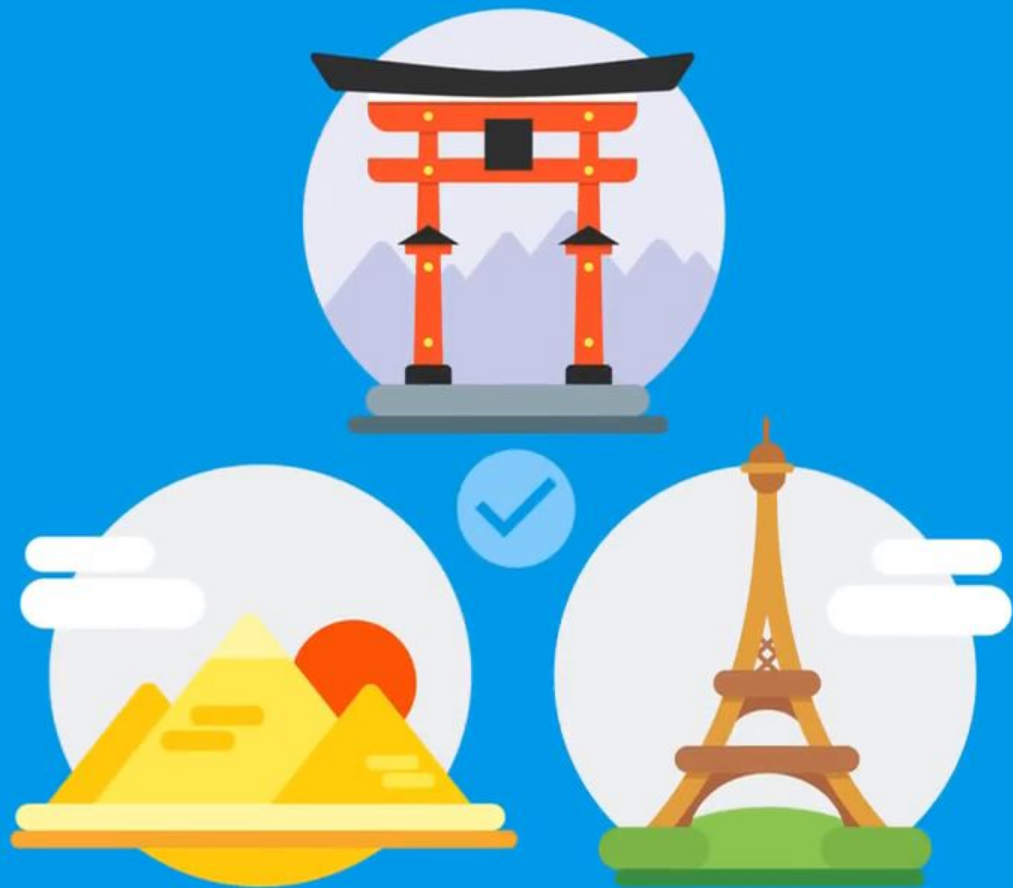


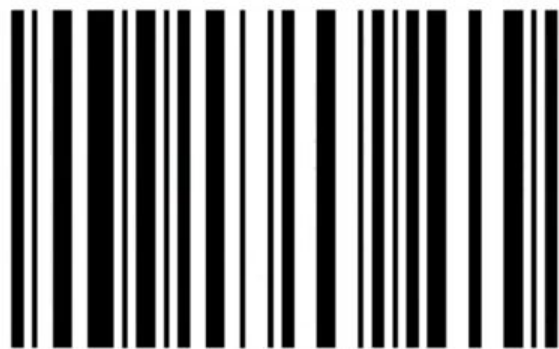


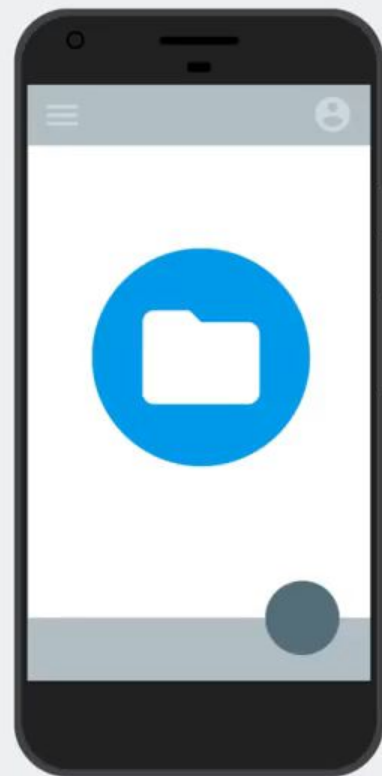
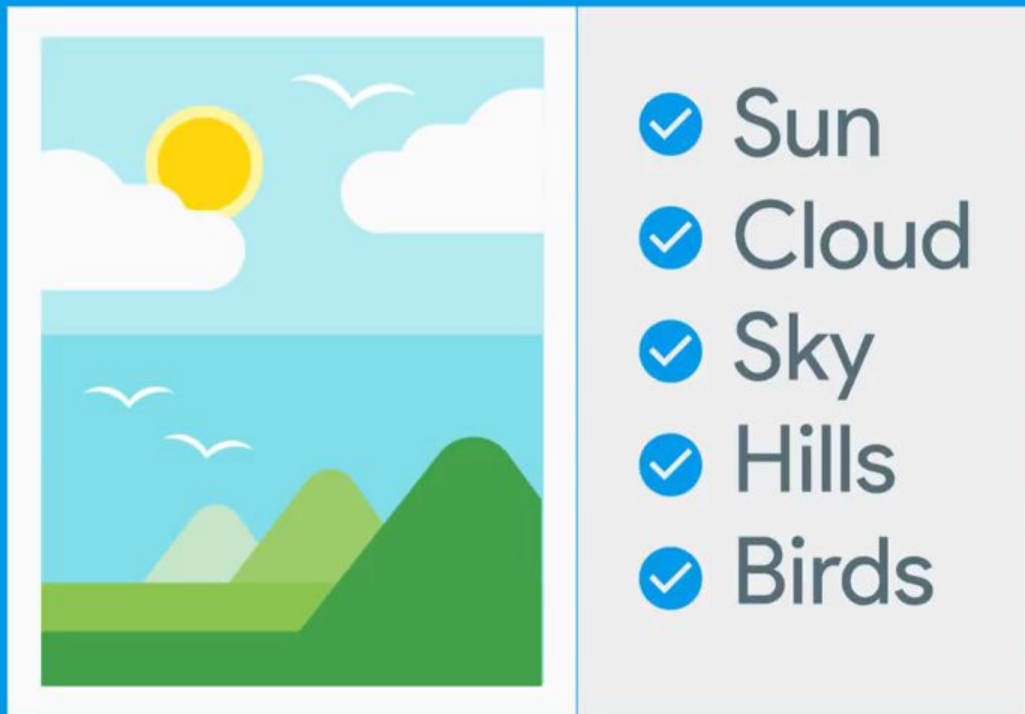


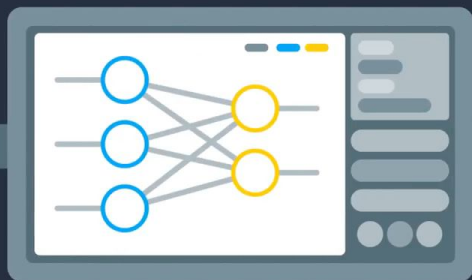


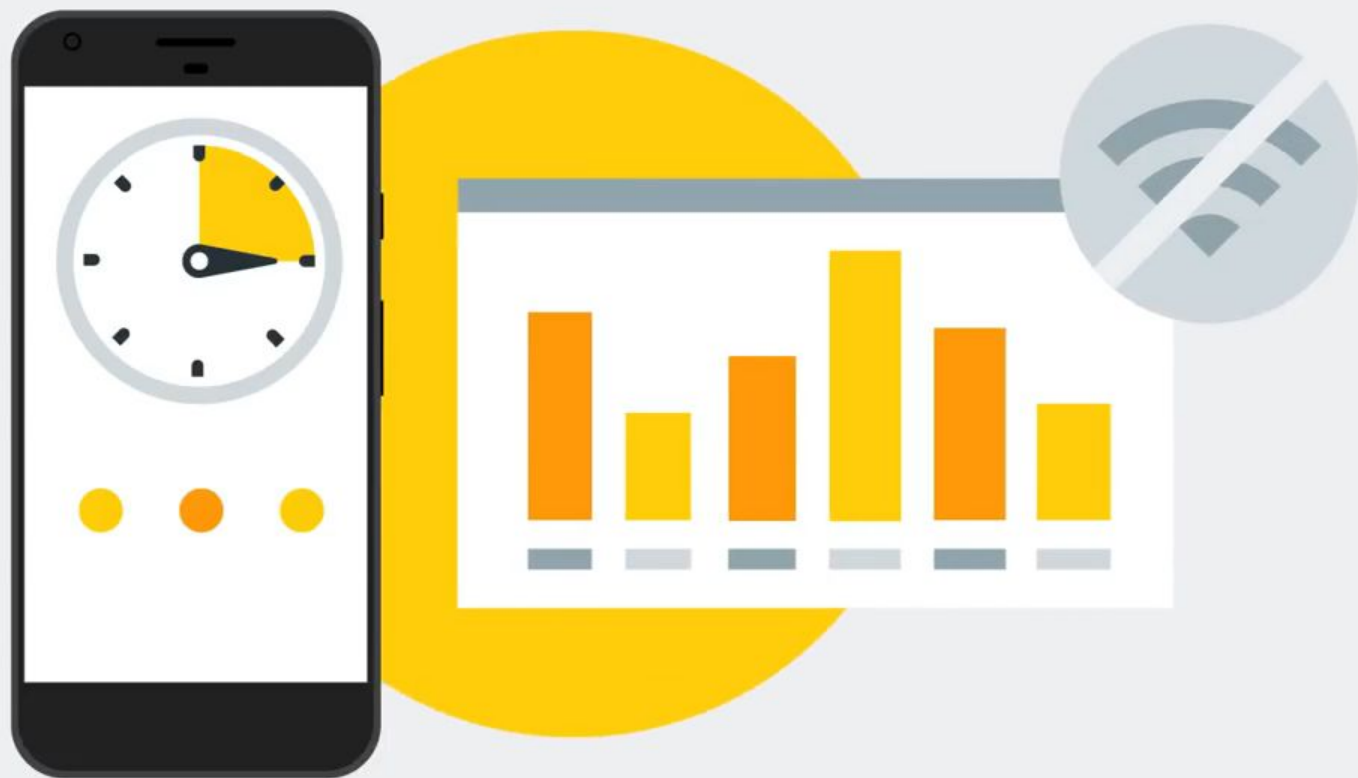














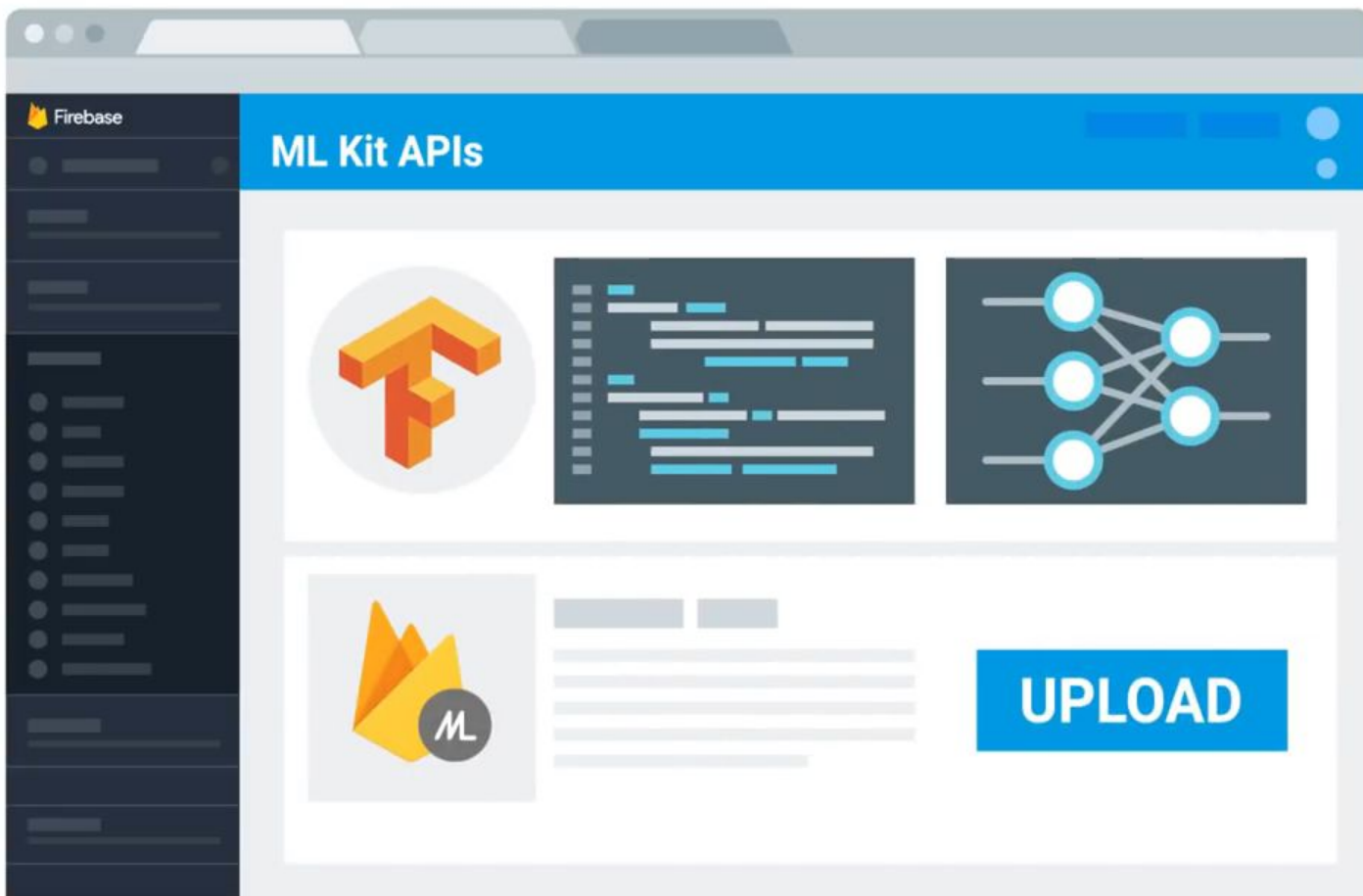


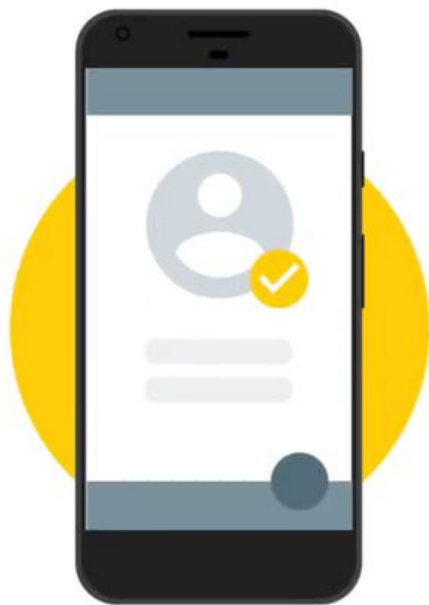
fun  
infrastructure  
neon  
person  
sky



ferris wheel  
amusement park  
night  
outdoor  
recreation  
fair







# Custom model support

Simplify use of custom ML model

Dynamic model downloads

Model conversion and compression

Provides an API layer

Your GPUs be like





A lightweight machine learning library and tools for  
mobile and embedded devices.

## Applications / SDKs

---

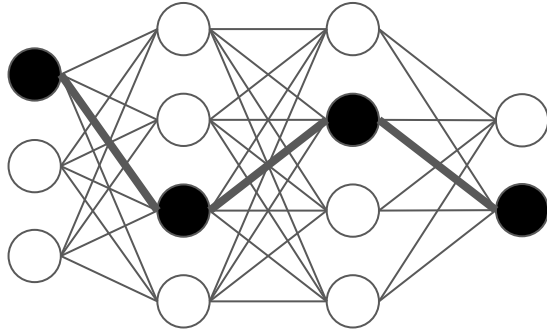


Neural Networks API



ios Metal


# Android Neural Network API



# 10X

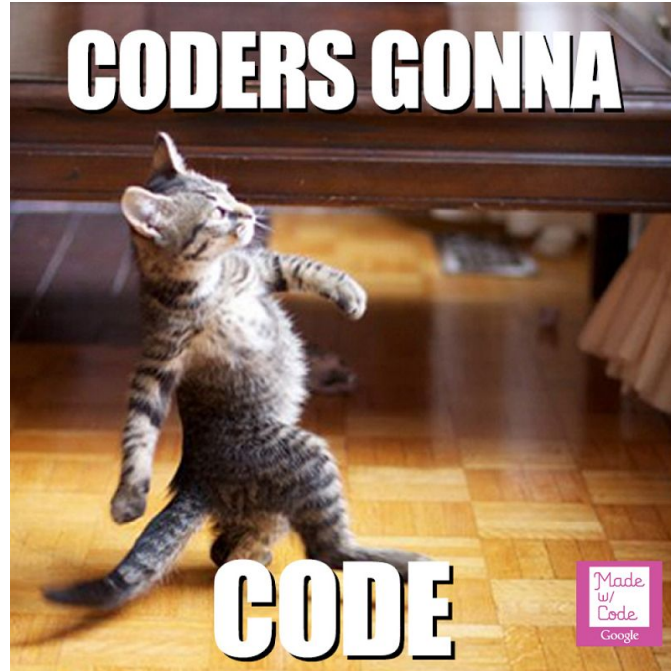
Inception v3 latency improvement  
on the Huawei P20 series, powered  
by Android's Neural Networks API



**HUAWEI P20 Series**  
CO-ENGINEERED WITH 



Give some space because



Before you ask



Let's see how we used ML Kit in Books2Go app

Flutter plugin: `firebase_ml_vision`

# camera.dart

```
import 'package:firebase_ml_vision/firebase_ml_vision.dart';

FirebaseVisionImage visionImage = FirebaseVisionImage.fromFilePath(path);

TextDetector detector = FirebaseVision.instance.getTextDetector();

List<TextBlock> blocks = await detector.detectInImage(visionImage);

TextBlock largestBlock = blocks.first;
for (TextBlock block in blocks) {
  if (rectangleArea(block.boundingBox) >
      rectangleArea(largestBlock.boundingBox)) {
    largestBlock = block;
  }
}
```