

TENSORFLOW

Tf.estimators

Tf.layers

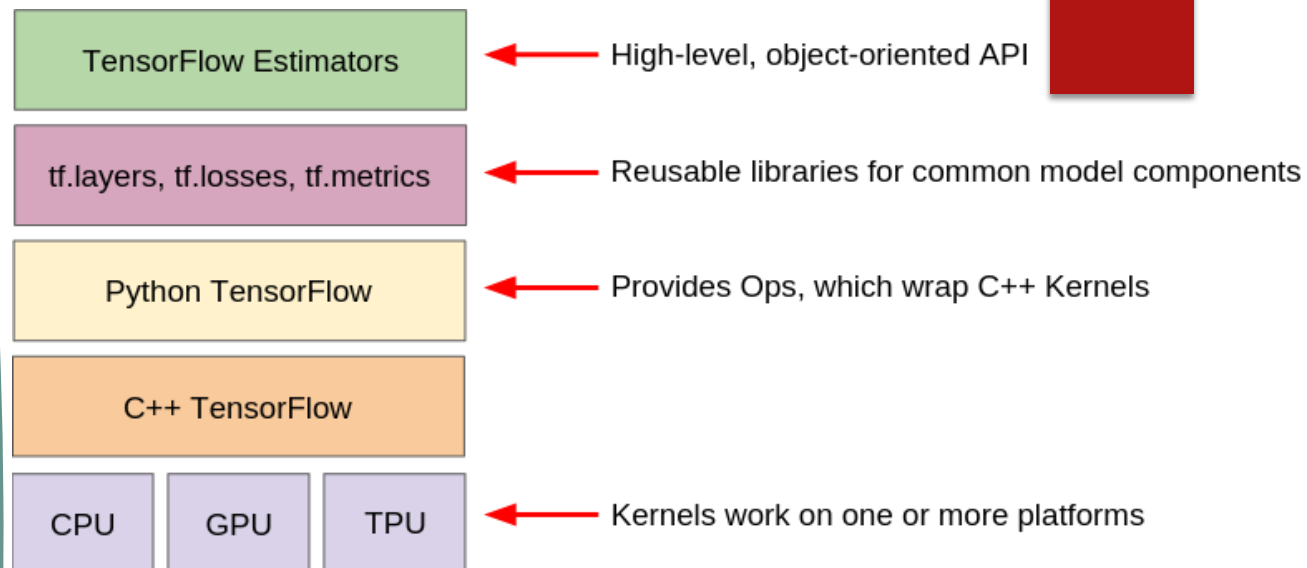
Tf.losses

Tf.metrics

Python Tensorflow

C++ Tensorflow

CPU GPU TPU



# TensorFlow

# FEATURES OF TENSORFLOW

- ▶ Flexible
- ▶ Easily trainable
- ▶ Parallel neural network training
- ▶ Open source
- ▶ Availability of statistical distribution
- ❖ Visualizer with tensor board



# Some Tensorflow applications

- ▶ Image classification
- ▶ Text classification

Image recognition

Audio recognition

# Some concepts

## Embedding

- convert text to vectors and real numbers
- before get in to a neural network
  - convert vectors -> word
- neural network is created by stacking layers

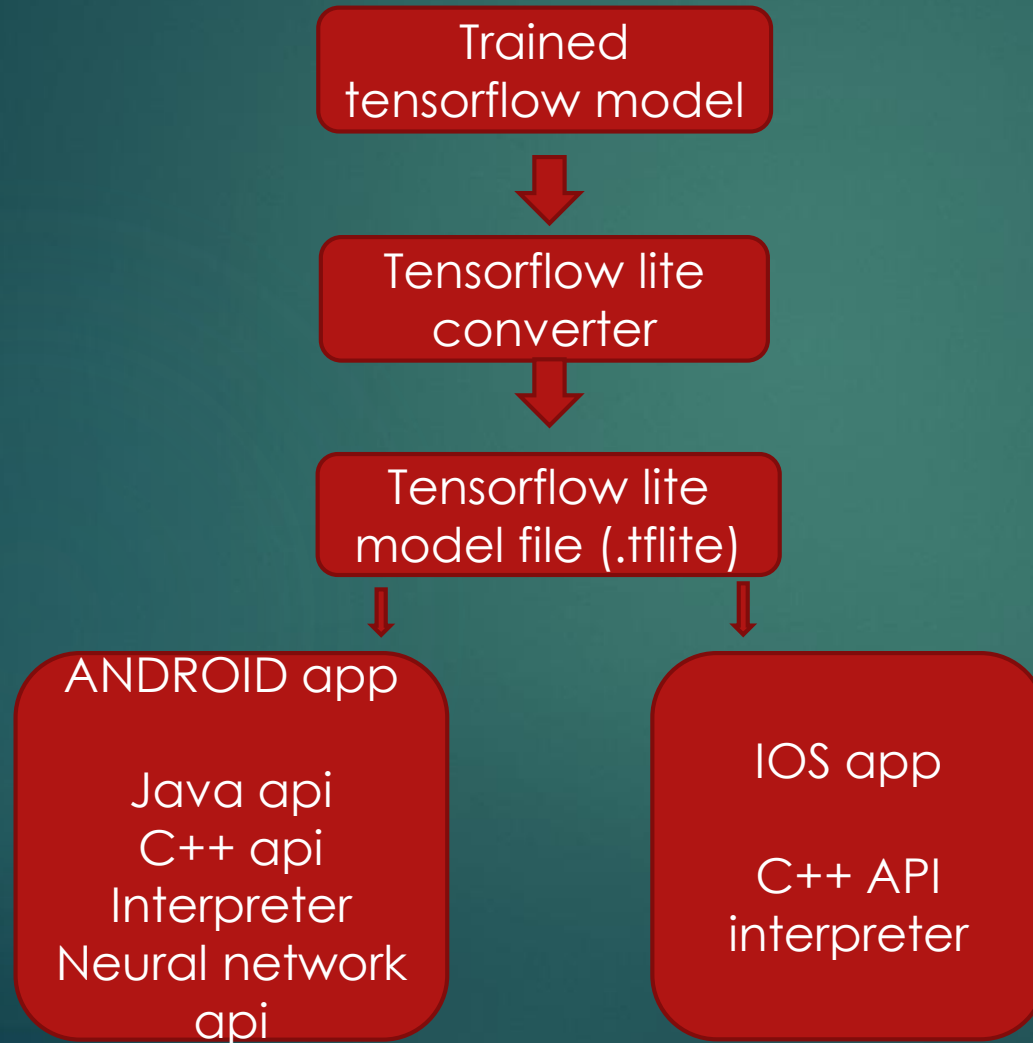
## Debugging

- tfdbg debugger

Train the model with tfdbg

# Tensorflow lite

## Tensorflow lite architecture



THANKYOU