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Tutorial: Build Your First Tensorflow Android App

A step-by-step tutorial on how to use a Tensorflow model inside an Android app

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Introduction

This tutorial helps you getting started with bringing your tensorflow models into your Android applications.

Recently, and slowly, tensorflow has been adding features and examples for using its models on Android and iOS. There are now three apps in the TensorFlow Android Camera Demo (https://github.com/tensorflow/tensorflow/tree/master/tensorflow /examples/android) which show very cool computer vision examples. However, they all use models that are already prepared and packaged and don't explain much how to create a new one. So, I thought it would be nice to have a short tutorial on how to start with your own machine learning model and use it inside any Android application.

In this tutorial, we go through two parts: creating and preparing the tensorflow model, and accessing the model inside an Android app. Although it doesn't get deep into any machine learning or Android concepts, you need to have a basic knowledge of Python, Java, Tensorflow, and Android development to go follow this tutorial.

You need a working installation of tensorflow. I've tested these procedures on the recent v1.0 release of tensorflow, however, if you use older compiled libraries they work with v0.12 as well with minor changes. You can find the

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