

android tensor flow projects 01

prereq

bazel

```
echo "deb [arch=amd64] http://storage.googleapis.com/bazel-apt stable
jdk1.8" | sudo tee /etc/apt/sources.list.d/bazel.list
curl https://bazel.build/bazel-release.pub.gpg | sudo apt-key add -
sudo apt-get update && sudo apt-get install bazel
```

- android sdk (in /opt/android-sdk)
- android ndk 14b from [here](#) as newer versions (or android-studio bundle) are not [compatible](#) with bazel (in /opt/android-ndk)

tensorflow

clone github tensorflow and build

```
cd /lab
git clone --depth 1 https://github.com/tensorflow/tensorflow.git
tensorflow.git
cd tensorflow.git
```

update WORKSPACE file

```
android_sdk_repository(
    name = "androidsdk",
    api_level = 25,
    # Ensure that you have the build_tools_version below installed in the
    # SDK manager as it updates periodically.
    build_tools_version = "26.0.1",
    # Replace with path to Android SDK on your system
    path = "/opt/android-sdk",
)
#
android_ndk_repository(
    name="androidndk",
    path="/opt/android-ndk-r14b",
    # This needs to be 14 or higher to compile TensorFlow.
    # Please specify API level to >= 21 to build for 64-bit
    # architectures or the Android NDK will automatically select biggest
    # API level that it supports without notice.
    # Note that the NDK version is not the API level.
    api_level=25)
```

build demo

```
bazel build -c opt //tensorflow/examples/android:tensorflow_demo
```

azainab TF detect project

[project README](#)

```
git clone https://github.com/azainab/androidTFDetect/  
cd androidTFDetect  
# download assets from  
https://drive.google.com/file/d/0B4dPZkgiYl-SWW1TNTBpNUtKbGs/view?usp=sharin  
g  
cd assets  
unzip ~/Scaricati/Place\ in\ assets\ folder.zip
```

import project in android studio

[build.gradle](#)

```
buildscript {  
    repositories {  
        google() // Gradle 4.0+  
        maven { url "https://maven.google.com" } // Gradle < 4.0  
        jcenter()  
    }  
  
    dependencies {  
        classpath 'com.android.tools.build:gradle:3.0.1'  
        classpath 'org.apache.httpcomponents:httpclient:4.5.2'  
    }  
}
```

[settings.gradle](#)

```
include ':TensorFlow-Android-Inference'  
  
findProject(":TensorFlow-Android-Inference").projectDir = new  
File("/lab/tensorflow.git/tensorflow/contrib/android/cmake")
```

[jni/CMakeLists.txt](#)

```
#get_filename_component(TF_SRC_ROOT ${CMAKE_SOURCE_DIR}/../../../../..  
ABSOLUTE)  
set(TF_SRC_ROOT "/lab/tensorflow.git")  
#get_filename_component(SAMPLE_SRC_DIR ${CMAKE_SOURCE_DIR}/..
```

```
ABSOLUTE)  
set(SAMPLE_SRC_DIR "/lab/tensorflow.git/tensorflow/examples/android")
```

From:

<https://wiki.csgalileo.org/> - **Galileo Labs**

Permanent link:

<https://wiki.csgalileo.org/projects/work-in-progress/android1?rev=1522064131>

Last update: **2018/03/26 13:35**

