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# tensorflow 的android demo中，detector代码修改，解决检测框不显 示问题



2017年09月12日 14:10:22

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编译安装tensorflow\_demo，断断续续搞了2周多。

主要问题是workspace文件修改的不正确，sdk和ndk的api\_level没有搞匹配，

64位的机器编译，ndk的api\_level应该要比21高，不是14

还有，sdk和ndk的路径一定要写正确

其他就没问题了。

总的来说，安装bazel有点麻烦，

编译tensorflow源码其实挺简单的，就是配置要细心。



```

import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Matrix;
import android.graphics.Paint;
import android.graphics.Paint.Style;
import android.graphics.RectF;
import android.graphics.Typeface;
import android.media.Image;
import android.media.Image.Plane;
import android.media.ImageReader;
import android.media.ImageReader.OnImageAvailableListener;
import android.os.SystemClock;
import android.os.Trace;
import android.util.Size;
import android.util.TypedValue;
import android.view.Display;
import android.widget.Toast;
import java.io.IOException;
import java.util.LinkedList;
import java.util.List;
import java.util.Vector;
import org.tensorflow.demo.OverlayView.DrawCallback;
import org.tensorflow.demo.env.BorderedText;
import org.tensorflow.demo.env.ImageUtils;
import org.tensorflow.demo.env.Logger;
import org.tensorflow.demo.tracking.MultiBoxTracker;
import org.tensorflow.demo.R;

/**
 * An activity that uses a TensorFlowMultiBoxDetector and ObjectTracker to detect and then track
 * objects.

```

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tensorflow开源Tensorflow Object Detection API安装运行测试 ([http://blog.csdn.net/weixin\\_35654926/article/details/75452450](http://blog.csdn.net/weixin_35654926/article/details/75452450))

TensorFlow object detection api-----ssd\_mobilenet使用 (<http://blog.csdn.net/xiji321/article/details/77163550>)

```

*/
public class DetectorActivity extends CameraActivity implements OnImageAvailableListener {
    private static final Logger LOGGER = new Logger();

    // Configuration values for the prepackaged multibox model.
    private static final int MB_INPUT_SIZE = 224;
    private static final int MB_IMAGE_MEAN = 128;
    private static final float MB_IMAGE_STD = 128;
    private static final String MB_INPUT_NAME = "ResizeBilinear";
    private static final String MB_OUTPUT_LOCATIONS_NAME = "output_locations/Reshape";
    private static final String MB_OUTPUT_SCORES_NAME = "output_scores/Reshape";
    private static final String MB_MODEL_FILE = "file:///android_asset/multibox_model.pb";
    private static final String MB_LOCATION_FILE =
        "file:///android_asset/multibox_location_priors.txt";

    private static final int TF_OD_API_INPUT_SIZE = 300;
    private static final String TF_OD_API_MODEL_FILE =
        "file:///android_asset/ssd_mobilenet_v1_android_export.pb";
    private static final String TF_OD_API_LABELS_FILE = "file:///android_asset/coco_labels_list.txt";

    // Configuration values for tiny-yolo-voc. Note that the graph is not included with TensorFlow and
    // must be manually placed in the assets/ directory by the user.
    // Graphs and models downloaded from http://pjreddie.com/darknet/yolo/ may be converted e.g. via
    // DarkFlow (https://github.com/thtrieu/darkflow). Sample command:
    // ./flow --model cfg/tiny-yolo-voc.cfg --load bin/tiny-yolo-voc.weights --savepb --verbalise
    private static final String YOLO_MODEL_FILE = "file:///android_asset/graph-tiny-yolo-voc.pb";
    private static final int YOLO_INPUT_SIZE = 416;
    private static final String YOLO_INPUT_NAME = "input";
    private static final String YOLO_OUTPUT_NAMES = "output";
    private static final int YOLO_BLOCK_SIZE = 32;

```

android studio 集成TensorFlow Demo (<http://blog.csdn.net/u010302327/article/details/78032852>)

```
// Which detection model to use: by default uses Tensorflow Object Detection API frozen
// checkpoints. Optionally use legacy Multibox (trained using an older version of the API)
// or YOLO.
```

```
private enum DetectorMode {
    TF_OD_API, MULTIBOX, YOLO;
}
```

```
private static final DetectorMode MODE = DetectorMode.TF_OD_API;
```

```
//private static final DetectorMode MODE = DetectorMode.MULTIBOX;
```

```
0
```

```
// Minimum detection confidence to track a detection.
```

```
private static final float MINIMUM_CONFIDENCE_TF_OD_API = 0.1f;
```

```
private static final float MINIMUM_CONFIDENCE_MULTIBOX = 0.1f;
```

```
private static final float MINIMUM_CONFIDENCE_YOLO = 0.25f;
```

```
private static final boolean MAINTAIN_ASPECT = MODE == DetectorMode.YOLO;
```

```
private static final Size DESIRED_PREVIEW_SIZE = new Size(640, 480);
```

```
private static final boolean SAVE_PREVIEW_BITMAP = false;
```

```
private static final float TEXT_SIZE_DIP = 10;
```

```
private Integer sensorOrientation;
```

```
private Classifier detector;
```

```
private int previewWidth = 0;
```

```
private int previewHeight = 0;
```

```
private byte[][] yuvBytes;
```

```
private int[] rgbBytes = null;
```

```
private Bitmap rgbFrameBitmap = null;
```

```
private Bitmap croppedBitmap = null;

private boolean computing = false;

private long timestamp = 0;

private Matrix frameToCropTransform;
private Matrix cropToFrameTransform;
0
private Bitmap cropCopyBitmap;
private MultiBoxTracker tracker;
private byte[] luminance;
private BorderedText borderedText;

private long lastProcessingTimeMs;

@Override
public void onPreviewSizeChosen(final Size size, final int rotation) {
    final float textSizePx =
        TypedValue.applyDimension(
            TypedValue.COMPLEX_UNIT_DIP, TEXT_SIZE_DIP, getResources().getDisplayMetrics());
    borderedText = new BorderedText(textSizePx);
    borderedText.setTypeface(Typeface.MONOSPACE);

    tracker = new MultiBoxTracker(this);

    int cropSize = TF_OD_API_INPUT_SIZE;
    if (MODE == DetectorMode.YOLO) {
```

```

detector =
    TensorFlowYoloDetector.create(
        getAssets(),
        YOLO_MODEL_FILE,
        YOLO_INPUT_SIZE,
        YOLO_INPUT_NAME,
        YOLO_OUTPUT_NAMES,
        YOLO_BLOCK_SIZE);
    0 cropSize = YOLO_INPUT_SIZE;
    } else if (MODE == DetectorMode.MULTIBOX) {
        detector =
            TensorFlowMultiBoxDetector.create(
                getAssets(),
                MB_MODEL_FILE,
                MB_LOCATION_FILE,
                MB_IMAGE_MEAN,
                MB_IMAGE_STD,
                MB_INPUT_NAME,
                MB_OUTPUT_LOCATIONS_NAME,
                MB_OUTPUT_SCORES_NAME);
        cropSize = MB_INPUT_SIZE;
    } else {
        try {
            detector = TensorFlowObjectDetectionAPIModel.create(
                getAssets(), TF_OD_API_MODEL_FILE, TF_OD_API_LABELS_FILE,
TF_OD_API_INPUT_SIZE);
            cropSize = TF_OD_API_INPUT_SIZE;
        } catch (final IOException e) {
            LOGGER.e("Exception initializing classifier!", e);
            Toast toast =
                Toast.makeText(

```

```
        getApplicationContext(), "Classifier could not be initialized", Toast.LENGTH_SHORT);
    toast.show();
    finish();
}
}

    previewWidth = size.getWidth();
    previewHeight = size.getHeight();
    0

    final Display display = getWindowManager().getDefaultDisplay();
    final int screenOrientation = display.getRotation();

    ...
    LOGGER.i("Sensor orientation: %d, Screen orientation: %d", rotation, screenOrientation);

    ...
    sensorOrientation = rotation + screenOrientation;

    LOGGER.i("Initializing at size %dx%d", previewWidth, previewHeight);
    rgbBytes = new int[previewWidth * previewHeight];
    rgbFrameBitmap = Bitmap.createBitmap(previewWidth, previewHeight, Config.ARGB_8888);
    croppedBitmap = Bitmap.createBitmap(cropSize, cropSize, Config.ARGB_8888);

    frameToCropTransform =
        ImageUtils.getTransformationMatrix(
            previewWidth, previewHeight,
            cropSize, cropSize,
            sensorOrientation, MAINTAIN_ASPECT);

    cropToFrameTransform = new Matrix();
    frameToCropTransform.invert(cropToFrameTransform);
    yuvBytes = new byte[3][];
```



```
trackingOverlay = (OverlayView) findViewById(R.id.tracking_overlay);  
trackingOverlay.addCallback(  
    new DrawCallback() {  
        @Override  
        public void drawCallback(final Canvas canvas) {  
            tracker.draw(canvas);  
            if (isDebug()) {  
                tracker.drawDebug(canvas);  
            }  
        }  
    });
```



0



```
addCallback(  
    new DrawCallback() {  
        @Override  
        public void drawCallback(final Canvas canvas) {  
            if (!isDebug()) {  
                return;  
            }  
            final Bitmap copy = cropCopyBitmap;  
            if (copy == null) {  
                return;  
            }  
            final int backgroundColor = Color.argb(100, 255, 125, 2);  
            canvas.drawColor(backgroundColor);  
  
            final Matrix matrix = new Matrix();  
            final float scaleFactor = 2;  
            matrix.postScale(scaleFactor, scaleFactor);  
            matrix.postTranslate(  
                canvas.getWidth() / 2, canvas.getHeight() / 2);  
            copy.draw(matrix, canvas);  
        }  
    });
```

```

        canvas.getWidth() - copy.getWidth() * scaleFactor,
        canvas.getHeight() - copy.getHeight() * scaleFactor);
canvas.drawBitmap(copy, matrix, new Paint());

```

```

final Vector<String> lines = new Vector<String>();
if (detector != null) {

```



```
    final String statString = detector.getStatString();

```

0

```
    final String[] statLines = statString.split("\n");

```



```
    for (final String line : statLines) {

```

```
        lines.add(line);

```

```
    }

```



```
    }

```

```
    lines.add("*****");

```



```
    lines.add("Frame: " + previewWidth + "x" + previewHeight);

```

```
    lines.add("Crop: " + copy.getWidth() + "x" + copy.getHeight());

```

```
    lines.add("View: " + canvas.getWidth() + "x" + canvas.getHeight());

```

```
    lines.add("Rotation: " + sensorOrientation);

```

```
    lines.add("Inference time: " + lastProcessingTimeMs + "ms");

```

```
    borderedText.drawLines(canvas, 10, canvas.getHeight() - 10, lines);

```

```
    }

```

```
    });

```

```
    }

```

```
OverlayView trackingOverlay;

```

```
@Override

```

```
public void onImageAvailable(final ImageReader reader) {

```

```
    Image image = null;

```

```
++timestamp;
final long currTimestamp = timestamp;

try {
    image = reader.acquireLatestImage();

    if (image == null) {
        return;
    }

    Trace.beginSection("imageAvailable");

    final Plane[] planes = image.getPlanes();
    fillBytes(planes, yuvBytes);

    tracker.onFrame(
        previewWidth,
        previewHeight,
        planes[0].getRowStride(),
        sensorOrientation,
        yuvBytes[0],
        timestamp);
    trackingOverlay.postInvalidate();

    // No mutex needed as this method is not reentrant.
    if (computing) {
        image.close();
        return;
    }
    computing = true;
```

```
final int yRowStride = planes[0].getRowStride();
final int uvRowStride = planes[1].getRowStride();
final int uvPixelStride = planes[1].getPixelStride();
ImageUtils.convertYUV420ToARGB8888(
    yuvBytes[0],
    yuvBytes[1],
    yuvBytes[2],
    previewWidth,
    previewHeight,
    yRowStride,
    uvRowStride,
    uvPixelStride,
    rgbBytes);

image.close();
} catch (final Exception e) {
    if (image != null) {
        image.close();
    }
    LOGGER.e(e, "Exception!");
    Trace.endSection();
    return;
}

rgbFrameBitmap.setPixels(rgbBytes, 0, previewWidth, 0, 0, previewWidth, previewHeight);
final Canvas canvas = new Canvas(croppedBitmap);
canvas.drawBitmap(rgbFrameBitmap, frameToCropTransform, null);

// For examining the actual TF input.
if (SAVE_PREVIEW_BITMAP) {
    ImageUtils.saveBitmap(croppedBitmap);
}
```

```
}

if (luminance == null) {
    luminance = new byte[yuvBytes[0].length];
}
System.arraycopy(yuvBytes[0], 0, luminance, 0, luminance.length);

runInBackground(
    new Runnable() {
        @Override
        public void run() {

            Toast toast =
                Toast.makeText(
                    getApplicationContext(), "run ....", Toast.LENGTH_SHORT);
            toast.show();

            final long startTime = SystemClock uptimeMillis();
            final List<Classifier.Recognition> results = detector.recognizeImage(croppedBitmap);
            lastProcessingTimeMs = SystemClock uptimeMillis() - startTime;

            cropCopyBitmap = Bitmap.createBitmap(croppedBitmap);
            final Canvas canvas = new Canvas(cropCopyBitmap);
            final Paint paint = new Paint();
            paint.setColor(Color.RED);
            paint.setStyle(Style.STROKE);
            paint.setStrokeWidth(2.0f);

            float minimumConfidence = MINIMUM_CONFIDENCE_TF_OD_API;
            switch (MODE) {
                case TF_OD_API: minimumConfidence = MINIMUM_CONFIDENCE_TF_OD_API; break;
            }
        }
    }
);
```

```
    case MULTIBOX: minimumConfidence = MINIMUM_CONFIDENCE_MULTIBOX; break;
    case YOLO: minimumConfidence = MINIMUM_CONFIDENCE_YOLO; break;
}
```

```
final List<Classifier.Recognition> mappedRecognitions =
    new LinkedList<Classifier.Recognition>();
```

```
System.out.println(results.size());
```

```
for (final Classifier.Recognition result : results) {
```

```
    RectF location = result.getLocation();
```

```
    //location= new RectF(location.top,location.left,location.bottom,location.right);
```

```
    location= new RectF(1.0f,1.0f,10.0f,40.0f);
```

```
    if (location != null && result.getConfidence() >= minimumConfidence) {
```

```
        canvas.drawRect(location, paint);
```

```
        cropToFrameTransform.mapRect(location);
```

```
        result.setLocation(location);
```

```
        mappedRecognitions.add(result);
```

```
    }
```

```
}
```

```
tracker.trackResults(mappedRecognitions, luminance, currTimestamp);
```

```
trackingOverlay.postInvalidate();
```

```
requestRender();
```

```
computing = false;
```

```
}
```

```
});
```

```
Trace.endSection();
```

```
}
```

```
protected void processImageRGBbytes(int[] rgbBytes ) {
    //rgbFrameBitmap.setPixels(rgbBytes, 0, previewWidth, 0, 0, previewWidth, previewHeight);
    //final Canvas canvas = new Canvas(croppedBitmap);
    //canvas.drawBitmap(rgbFrameBitmap, frameToCropTransform, null);
    ++timestamp;
    final long currTimestamp = timestamp;
    Toast toast =
        Toast.makeText(
            getApplicationContext(), "zhaomingming 13718371754", Toast.LENGTH_SHORT);
    toast.show();
    //onImageAvailable();

    rgbFrameBitmap.setPixels(rgbBytes, 0, previewWidth, 0, 0, previewWidth, previewHeight);
    final Canvas canvas = new Canvas(croppedBitmap);
    canvas.drawBitmap(rgbFrameBitmap, frameToCropTransform, null);

    // For examining the actual TF input.
    if (SAVE_PREVIEW_BITMAP) {
        ImageUtils.saveBitmap(croppedBitmap);
    }

    //if (luminance == null) {
    // luminance = new byte[yuvBytes[0].length];
    //}
    //System.arraycopy(yuvBytes[0], 0, luminance, 0, luminance.length);

    runInBackground(
        new Runnable() {
            @Override
```

```
public void run() {
```

```
    Toast toast =
```

```
    Toast.makeText(
```

```
        getApplicationContext(), "run ....", Toast.LENGTH_SHORT);
```

```
    toast.show();
```



```
    final long startTime = SystemClock.uptimeMillis();
```

```
    0
```

```
    final List<Classifier.Recognition> results = detector.recognizeImage(croppedBitmap);
```



```
    lastProcessingTimeMs = SystemClock.uptimeMillis() - startTime;
```



```
    cropCopyBitmap = Bitmap.createBitmap(croppedBitmap);
```

```
    //final Canvas canvas = new Canvas(cropCopyBitmap);
```



```
    final Paint paint = new Paint();
```

```
    paint.setColor(Color.RED);
```

```
    paint.setStyle(Style.STROKE);
```

```
    paint.setStrokeWidth(2.0f);
```

```
    float minimumConfidence = MINIMUM_CONFIDENCE_TF_OD_API;
```

```
    switch (MODE) {
```

```
        case TF_OD_API: minimumConfidence = MINIMUM_CONFIDENCE_TF_OD_API; break;
```

```
        case MULTIBOX: minimumConfidence = MINIMUM_CONFIDENCE_MULTIBOX; break;
```

```
        case YOLO: minimumConfidence = MINIMUM_CONFIDENCE_YOLO; break;
```

```
    }
```

```
    final List<Classifier.Recognition> mappedRecognitions =
```

```
        new LinkedList<Classifier.Recognition>();
```

```
    System.out.println(results.size());
```

```
    for (final Classifier.Recognition result : results) {
```

```
        Toast.makeText(
```

```
            getApplicationContext(), "result", Toast.LENGTH_SHORT);
```



```

toast.show();
//final RectF location = result.getLocation();
RectF location_tmp = result.getLocation();
//RectF location_trans= new RectF(location.top,location.left,location.bottom,location.right);
//location= new RectF(location.left,location.top,location.right,location.bottom);
//final RectF location= new RectF(300.0f-location_tmp.top,location_tmp.left,300.0f-
location_tmp.bottom,location_tmp.right);
//final RectF location_tmp= new
RectF(SizeUtils.dp2px(1.0f),SizeUtils.dp2px(15.0f),SizeUtils.dp2px(100.0f),SizeUtils.dp2px(30.0f));
float scale=1280.0f/720.0f;
final RectF location= new RectF(300.0f-location_tmp.top*scale,location_tmp.left/scale,300.0f-
location_tmp.bottom*scale,location_tmp.right/scale);
//final RectF location= new
RectF(location_tmp.left,location_tmp.top,location_tmp.right,location.bottom);
canvas.drawRect(location, paint);
canvas.drawRect(new RectF(1.0f,1.0f,20.0f,20.0f), paint);
canvas.drawRect(new RectF(21.0f,21.0f,40.0f,40.0f), paint);
canvas.drawRect(new RectF(41.0f,41.0f,101.0f,101.0f), paint);
canvas.drawRect(new RectF(101.0f,101.0f,201.0f,201.0f), paint);

//location = new RectF(10, 10, 100, 100);
if (location != null && result.getConfidence() >= minimumConfidence) {

    //canvas.drawRect(location, paint);
    canvas.drawRect(location, paint);

    //canvas.drawRect(location, paint);

    cropToFrameTransform.mapRect(location);
    result.setLocation(location);

```

```
        mappedRecognitions.add(result);
    }
}
```

```
tracker.trackResults(mappedRecognitions, luminance, currTimestamp);
trackingOverlay.postInvalidate();
```



```
requestRender();
computing = false;
```



```
if (postInferenceCallback != null) {
    postInferenceCallback.run();
}
```



```
}
```



```
}
```

```
});
```

```
}
```

```
@Override
```

```
protected int getLayoutId() {
```

```
    return R.layout.camera_connection_fragment_tracking;
}
```

```
@Override
```

```
protected Size getDesiredPreviewFrameSize() {
```

```
    return DESIRED_PREVIEW_SIZE;
}
```

```
@Override
```

```
public void onSetDebug(final boolean debug) {
```

```
detector.enableStatLogging(debug);  
}  
}
```

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### MobileNet 训练检测网实验总结 ([http://blog.csdn.net/burning\\_keyboard/article/details/776...](http://blog.csdn.net/burning_keyboard/article/details/776...))

MobileNet 训练检测网实验总结MobileNet做目标检测的包在tensorflow/models/object\_detection里。先下载一个ssd\_mobilenet\_v1的预训练模型。...



burning\_keyboard ([http://blog.csdn.net/burning\\_keyboard](http://blog.csdn.net/burning_keyboard)) 2017年08月26日 22:24 2041

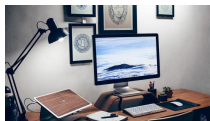
### tensorflow开源Tensorflow Object Detection API安装运行测试 (<http://blog.csdn.net/weixin...>)

TensorFlow对象检测API是一个建立在TensorFlow之上的开源框架，可以轻松构建，训练和部署对象检测模型。安装：Tensorflow对象检测API依赖于以下项：Protobu...



weixin\_35654926 ([http://blog.csdn.net/weixin\\_35654926](http://blog.csdn.net/weixin_35654926)) 2017年07月19日 22:32 3277

## 【程序员之路】我是前端工程师，怎么了？




广告

今天我30岁了，在此之际，回想我的程序生涯之路，十分感慨，谈谈我作为程序员的选择之路..

([http://www.baidu.com/cb.php?c=lgF\\_pyfqHmknj0dP1f0IZ0qnfK9ujYzP1nYPH0k0Aw-5Hc3rHnYnHb0TAq15HfLPWRznjb0T1YduA7-nvuBnhNWuyckP10Y0AwY5HDdnHckrHbvj60lgF\\_5y9YIZ0IQzq-uZR8mLPbUB48ugfEIAqspynElvNBnHqdlAdxTvqdThP-5yF\\_UjvTkn0KzujYk0AFV5H00TZcq0KdpyfqHRLPjnvnfKEpyfqHc4rj6kP0KWpyfqP1cvrHnz0AqLUWYs0ZK45HcsP6KWThnqnWf3n1D](http://www.baidu.com/cb.php?c=lgF_pyfqHmknj0dP1f0IZ0qnfK9ujYzP1nYPH0k0Aw-5Hc3rHnYnHb0TAq15HfLPWRznjb0T1YduA7-nvuBnhNWuyckP10Y0AwY5HDdnHckrHbvj60lgF_5y9YIZ0IQzq-uZR8mLPbUB48ugfEIAqspynElvNBnHqdlAdxTvqdThP-5yF_UjvTkn0KzujYk0AFV5H00TZcq0KdpyfqHRLPjnvnfKEpyfqHc4rj6kP0KWpyfqP1cvrHnz0AqLUWYs0ZK45HcsP6KWThnqnWf3n1D))


## TensorFlow object detection api-----ssd\_mobilenet使用 (<http://blog.csdn.net/xiji321/article...>)

谷歌发布object detection api ( <https://github.com/tensorflow/models> ) 已经有一段时间了，这个api的发布，让我们不用自己再去为faster-rcn...

 xiji321 (<http://blog.csdn.net/xiji321>) 2017年08月14日 17:58 2761


## android studio 集成TensorFlow Demo (<http://blog.csdn.net/u010302327/article/details/78...>)

将编译完成的 libandroid\_tensorflow\_inference\_java.jar 和 armeabi-v7a/libtensorflow\_inference.so文件拉到项目libs文件...

 u010302327 (<http://blog.csdn.net/u010302327>) 2017年09月19日 17:55 332

## 在Windows7上用Android Studio编译Tensorflow\_Android\_Demo (<http://blog.csdn.net/off...>)

Tensorflow提供了一个[Android Demo] 昨天尝试了在Win7环境下编译下和运行这个Demo。在Window7下面我只编译Java部分的代码，jni部分的代码我直接用了官方jink...

 offbye (<http://blog.csdn.net/offbye>) 2017年10月27日 21:57 377

## AI 工程师职业指南




我们请来商汤、杜邦、声智、希为、58同城、爱因互动、中科视拓、鲁朗软件等公司 AI 技术一线的专家，请他们从实践的角度来解析 AI 领域各技术岗位的合格工程师都是怎样炼成的。

([http://www.baidu.com/cb.php?c=lgF\\_pyfqHmknjfrj00lZ0qnfK9ujYzP1f4Pjnd0Aw-5Hc4nj6vPjm0TAq15Hf4rjn1n1b0T1Y3m1c3njm4PvfYPjF9Pycv0AwY5HDdnHckrHbvj60lgF\\_5y9YIZ0IQzqMpgwBUvqoQhP8QvIGIAPCmgfEmvq\\_lyd8Q1R4uhF-rA7VWj0YmhP9PARvujmYmH0vm1qdlAdxTvqdThP-5HDkpWF9mhkEusKzujYk0AFV5H00TZcqn0KdpyfqHRLPjnvnfKEpyfqHnsnj0YnsKWpyfqP1cvrHnz0AqLUWYs0ZK45HcsP6KWThnqnH6knHm](http://www.baidu.com/cb.php?c=lgF_pyfqHmknjfrj00lZ0qnfK9ujYzP1f4Pjnd0Aw-5Hc4nj6vPjm0TAq15Hf4rjn1n1b0T1Y3m1c3njm4PvfYPjF9Pycv0AwY5HDdnHckrHbvj60lgF_5y9YIZ0IQzqMpgwBUvqoQhP8QvIGIAPCmgfEmvq_lyd8Q1R4uhF-rA7VWj0YmhP9PARvujmYmH0vm1qdlAdxTvqdThP-5HDkpWF9mhkEusKzujYk0AFV5H00TZcqn0KdpyfqHRLPjnvnfKEpyfqHnsnj0YnsKWpyfqP1cvrHnz0AqLUWYs0ZK45HcsP6KWThnqnH6knHm))


## TensorFlow —— 30秒搞定物体检测 (<http://blog.csdn.net/wangli0519/article/details/736115...>)

Google发布了新的TensorFlow物体检测API，包含了预训练模型，一个发布模型的jupyter notebook，一些可用于使用自己数据集对模型进行重新训练的有用脚本。使用该API可以快速...

 wangli0519 (<http://blog.csdn.net/wangli0519>) 2017年06月22日 22:04 5576


## SSD: Single Shot MultiBox Detector in TensorFlow(翻译) (<http://blog.csdn.net/jnulzl/artic...>)

本文基本算是：GitHub:SSD-Tensorflow上的中文版一、环境配置基本环境：Windows 10 + GTX950M1、安装Anaconda3()下载Anaconda3双击安装即可，注意：

 jnulzl (<http://blog.csdn.net/jnulzl>) 2017年04月01日 19:45 5902



## darkflow测试和训练yolo (<http://blog.csdn.net/u011961856/article/details/76582669>)

参考自github:<https://github.com/thtrieu/darkflow> darkflow实现了将darknet翻译成tensorflow,可以用tensorflow加载darkn...


 u011961856 (<http://blog.csdn.net/u011961856>) 2017年08月02日 16:19 1614

## 在windows 7下安装ubuntu16.04 虚拟机进行tensorflow 的编译安装。 (<http://blog.csdn.ne...>)

看了很多相关文章，自己也需要动手试一试，结果发现还是有一些要注意的地方：我的电脑环境 笔记本：ThinkPad T450 X86\_64 系统环境：Windows7 64位系统，...


 fu\_shuwu ([http://blog.csdn.net/fu\\_shuwu](http://blog.csdn.net/fu_shuwu)) 2017年07月25日 19:38  1023



## 谷歌开源TensorFlow Object Detection API物体识别系统 ([http://blog.csdn.net/zchang81/ar...](http://blog.csdn.net/zchang81/article/details/73111111))

 近日，谷歌在其开源博客上发表了一篇名为《Supercharge your Computer Vision models with the TensorFlow Object Detection API...

 zchang81 (<http://blog.csdn.net/zchang81>) 2017年06月16日 16:53  4830

## 真正从零开始，TensorFlow详细安装入门图文教程！（[http://blog.csdn.net/u014696921/artic...](http://blog.csdn.net/u014696921/article/details/73111111)）

 AI这个概念好像突然就火起来了，年初大比分战胜李世石的AlphaGo成功的吸引了大量的关注，但其实看看你的手机上的语音助手，相机上的人脸识别，今日头条上帮你自动筛选出来的新闻，还有各大音乐软件...

 u014696921 (<http://blog.csdn.net/u014696921>) 2016年09月07日 16:01  5793


## SSD+caffe | Single Shot MultiBox Detector 目标检测（一）([http://blog.csdn.net/sinat\\_26...](http://blog.csdn.net/sinat_26917383/article/details/73111111))

作者的思路就是Faster R-CNN+YOLO，利用YOLO的思路和Faster R-CNN的anchor box的思想。0 导读（本节来源于BOT大赛嘉宾问答环节）SSD 这里的设计就...

 sinat\_26917383 ([http://blog.csdn.net/sinat\\_26917383](http://blog.csdn.net/sinat_26917383)) 2017年03月28日 17:13  6273


## tensorflow 几个android demo源码环境搭建 ([http://blog.csdn.net/cxq234843654/article/det...](http://blog.csdn.net/cxq234843654/article/details/77944516))

tensorflow 几个android demo源码环境搭建说明tensorflow上有几个example，本文重点关注其在android上的应用，源码在git Hub上有，这个apk是什么样子，大家...


 cxq234843654 (<http://blog.csdn.net/cxq234843654>) 2017年04月27日 17:31 4628


## tensorflow ssd mobilenet模型训练 (<http://blog.csdn.net/u010302327/article/details/78248...>)

经过了65个小时左右的训练，终于训练出android能跑的模型了 首先下载models 再下载数据集VOC2012 先配置环境，说实话 哪些有用哪些没用都没搞清楚 \$ pip install p...

 u010302327 (<http://blog.csdn.net/u010302327>) 2017年10月16日 12:24 586


## TensorFlow学习笔记之源码分析（3）---- retrain.py ([http://blog.csdn.net/daydayup\\_668819...](http://blog.csdn.net/daydayup_668819...))

 [https://github.com/tensorflow/tensorflow/blob/master/tensorflow/examples/image\\_retraining/retrain.py...](https://github.com/tensorflow/tensorflow/blob/master/tensorflow/examples/image_retraining/retrain.py...)

 daydayup\_668819 ([http://blog.csdn.net/daydayup\\_668819](http://blog.csdn.net/daydayup_668819)) 2017年03月29日 10:21 3195


## Tensorflow手写数字识别在android中的实现 ([http://blog.csdn.net/wcs\\_\\_1349/article/details...](http://blog.csdn.net/wcs__1349/article/details...))

说明 下载TensorFlow Android Demo git clone --recurse-submodules <https://github.com/tensorflow/tensor...>

 wcs\_\_1349 ([http://blog.csdn.net/wcs\\_\\_1349](http://blog.csdn.net/wcs__1349)) 2017年07月14日 16:25 651



## Android TextView属性详解 (<http://blog.csdn.net/h183288132/article/details/47206579>)

android:autoLink : 设置是否当文本为URL链接/email/电话号码/map时，文本显示为可点击的链接。可选值(none/web /email/ phone/map/all) andr...

 h183288132 (<http://blog.csdn.net/h183288132>) 2015年08月02日 13:17 5308

## androidstudio检测代码内的中文字符(解决安卓国际化修改字符问题) (<http://blog.csdn.net/qq...>)

androidstudio检测代码内的中文字符在堆完代码后,国际化可谓是咋们的一个头痛问题,,需要一个一个查找,然后一个一个修改  
下面介绍一个方法缓解这个问题: 打开全局搜索 在Text to fi...

 qq\_29967217 ([http://blog.csdn.net/qq\\_29967217](http://blog.csdn.net/qq_29967217)) 2017年02月24日 11:25  727



**TensorFlow Android Camera Demo.apk** (<http://download.csdn.net/detail...>)

[/http://download.csdn.net/detail...](http://download.csdn.net/detail...) 2017年03月23日 23:13 250B [下载](#)

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**android之Gif处理(解决GIF显示容易OOM问题，包括代码和说明)，非常详细..**

[/http://download.csdn.net/detail...](http://download.csdn.net/detail...) 2014年03月31日 17:46 1.77MB [下载](#)

