

In [2]:

```
from google.colab import drive
drive.mount('/content/gdrive')
```

Mounted at /content/gdrive

In [3]:

```
#!ln -s /content/gdrive/My\ Drive/ /mydrive
```

In [6]:

```
%cd /My Drive/Yolov4
```

[Errno 2] No such file or directory: '/My Drive/Yolov4'
/content

In [8]:

```
!git clone https://github.com/AlexeyAB/darknet
```

Cloning into 'darknet'...
remote: Enumerating objects: 15277, done.
remote: Counting objects: 100% (91/91), done.
remote: Compressing objects: 100% (57/57), done.
remote: Total 15277 (delta 37), reused 53 (delta 31), pack-reused 15186
Receiving objects: 100% (15277/15277), 13.77 MiB | 19.45 MiB/s, done.
Resolving deltas: 100% (10348/10348), done.

In [9]:

```
%cd darknet/
!sed -i 's/OPENCV=0/OPENCV=1/' Makefile
!sed -i 's/GPU=0/GPU=1/' Makefile
!sed -i 's/CUDNN=0/CUDNN=1/' Makefile
!sed -i 's/CUDNN_HALF=0/CUDNN_HALF=1/' Makefile
!sed -i 's/LIBSO=0/LIBSO=1/' Makefile
```

/content/darknet

In [10]:

```
!make
```

```
mkdir -p ./obj/
mkdir -p backup
chmod +x *.sh
g++ -std=c++11 -std=c++11 -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/image_opencv.cpp -o obj/image_opencv.o
./src/image_opencv.cpp: In function 'void draw_detections_cv_v3(void**, detection*, int, float, char**, image**, int, int)':
./src/image_opencv.cpp:946:23: warning: variable 'rgb' set but not used [-Wunused-but-set-variable]
    float rgb[3];
        ^~~
./src/image_opencv.cpp: In function 'void draw_train_loss(char*, void**, int, float, float, int, int, float, int, char*, float, int, int, double)':
./src/image_opencv.cpp:1147:13: warning: this 'if' clause does not guard... [-Wmisleading-indentation]
    if (iteration_old == 0)
    ^~
./src/image_opencv.cpp:1150:10: note: ...this statement, but the latter is misleadingly indented as if it were guarded by the 'if'
    if (iteration_old != 0){
    ^~
```

```

./src/image_opencv.cpp: In function 'void cv_draw_object(image, float*, int, int, int*, float*, int*, int, char**)':
./src/image_opencv.cpp:1444:14: warning: unused variable 'buff' [-Wunused-variable]
    char buff[100];
      ^~~~~

./src/image_opencv.cpp:1420:9: warning: unused variable 'it_tb_res' [-Wunused-variable]
    int it_tb_res = cv::createTrackbar(it_trackbar_name, window_name, &it_trackbar_value
, 1000);
    ^~~~~~

./src/image_opencv.cpp:1424:9: warning: unused variable 'lr_tb_res' [-Wunused-variable]
    int lr_tb_res = cv::createTrackbar(lr_trackbar_name, window_name, &lr_trackbar_value
, 20);
    ^~~~~~

./src/image_opencv.cpp:1428:9: warning: unused variable 'cl_tb_res' [-Wunused-variable]
    int cl_tb_res = cv::createTrackbar(cl_trackbar_name, window_name, &cl_trackbar_value
, classes-1);
    ^~~~~~

./src/image_opencv.cpp:1431:9: warning: unused variable 'bo_tb_res' [-Wunused-variable]
    int bo_tb_res = cv::createTrackbar(bo_trackbar_name, window_name, boxonly, 1);
    ^~~~~~

g++ -std=c++11 -std=c++11 -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCU
DNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofas
t -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/http_stre
am.cpp -o obj/http_stream.o
./src/http_stream.cpp: In member function 'bool JSON_sender::write(const char*)':
./src/http_stream.cpp:253:21: warning: unused variable 'n' [-Wunused-variable]
    int n = _write(client, outputbuf, outlen);
      ^

./src/http_stream.cpp: In member function 'bool MJPG_sender::write(const cv::Mat&)':
./src/http_stream.cpp:511:113: warning: format '%zu' expects argument of type 'size_t', b
ut argument 3 has type 'int' [-Wformat=]
    sprintf(head, "--mjpegstream\r\nContent-Type: image/jpeg\r\nContent-Leng
th: %zu\r\n\r\n", outlen);
                                     ^

./src/http_stream.cpp: In function 'void set_track_id(detection*, int, float, float, floa
t, int, int, int)':
./src/http_stream.cpp:867:27: warning: comparison between signed and unsigned integer exp
ressions [-Wsign-compare]
    for (int i = 0; i < v.size(); ++i) {
                        ~~~~~^~~~~~

./src/http_stream.cpp:875:33: warning: comparison between signed and unsigned integer exp
ressions [-Wsign-compare]
    for (int old_id = 0; old_id < old_dets.size(); ++old_id) {
                        ~~~~~^~~~~~

./src/http_stream.cpp:894:31: warning: comparison between signed and unsigned integer exp
ressions [-Wsign-compare]
    for (int index = 0; index < new_dets_num*old_dets.size(); ++index) {
                        ~~~~~^~~~~~

./src/http_stream.cpp:930:28: warning: comparison between signed and unsigned integer exp
ressions [-Wsign-compare]
    if (old_dets_dq.size() > deque_size) old_dets_dq.pop_front();
    ~~~~~^~~~~~

gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/gemm.c -o obj/gemm.o
./src/gemm.c: In function 'convolution_2d':
./src/gemm.c:2044:15: warning: unused variable 'out_w' [-Wunused-variable]
    const int out_w = (w + 2 * pad - ksize) / stride + 1;    // output_width=input_width
for stride=1 and pad=1
    ^~~~~

./src/gemm.c:2043:15: warning: unused variable 'out_h' [-Wunused-variable]
    const int out_h = (h + 2 * pad - ksize) / stride + 1;    // output_height=input_heig
ht for stride=1 and pad=1
    ^~~~~

gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/utils.c -o obj/utils.o
./src/utils.c: In function 'custom_hash':

```

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./src/utils.c:1061:12: warning: suggest parentheses around assignment used as truth value
[-Wparentheses]
    while (c = *str++)
           ^
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/dark_cuda.c -o obj/dark_cuda.o
./src/dark_cuda.c: In function 'cudnn_check_error_extended':
./src/dark_cuda.c:231:20: warning: comparison between 'cudaError_t {aka enum cudaError}'
and 'enum <anonymous>' [-Wenum-compare]
    if (status != CUDNN_STATUS_SUCCESS)
        ^~
./src/dark_cuda.c: In function 'cublas_check_error_extended':
./src/dark_cuda.c:265:18: warning: comparison between 'cudaError_t {aka enum cudaError}'
and 'enum cudaError_enum' [-Wenum-compare]
    if (status != CUDA_SUCCESS)
        ^~
./src/dark_cuda.c: In function 'pre_allocate_pinned_memory':
./src/dark_cuda.c:396:40: warning: format '%u' expects argument of type 'unsigned int', b
ut argument 2 has type 'long unsigned int' [-Wformat=]
    printf("pre_allocate: size = %Iu MB, num_of_blocks = %Iu, block_size = %Iu MB \n
",
           ~~~^
           %Ilu
           size / (1024*1024), num_of_blocks, pinned_block_size / (1024 * 1024));
           ~~~~~~
./src/dark_cuda.c:396:64: warning: format '%u' expects argument of type 'unsigned int', b
ut argument 3 has type 'size_t {aka const long unsigned int}' [-Wformat=]
    printf("pre_allocate: size = %Iu MB, num_of_blocks = %Iu, block_size = %Iu MB \n
",
           ~~~^
           %Ilu
./src/dark_cuda.c:396:82: warning: format '%u' expects argument of type 'unsigned int', b
ut argument 4 has type 'long unsigned int' [-Wformat=]
    printf("pre_allocate: size = %Iu MB, num_of_blocks = %Iu, block_size = %Iu MB \n
",
           ~~~^
           %Ilu
./src/dark_cuda.c:406:37: warning: format '%d' expects argument of type 'int', but argume
nt 2 has type 'size_t {aka const long unsigned int}' [-Wformat=]
    printf(" Allocated %d pinned block \n", pinned_block_size);
           ~^
           %ld
./src/dark_cuda.c: In function 'cuda_make_array_pinned_preallocated':
./src/dark_cuda.c:427:43: warning: format '%d' expects argument of type 'int', but argume
nt 2 has type 'size_t {aka long unsigned int}' [-Wformat=]
    printf("\n Pinned block_id = %d, filled = %f %% \n", pinned_block_id, fille
d);
           ~^
           %ld
./src/dark_cuda.c:442:64: warning: format '%d' expects argument of type 'int', but argume
nt 2 has type 'long unsigned int' [-Wformat=]
    printf("Try to allocate new pinned memory, size = %d MB \n", size / (1024 *
1024));
           ~^
           ~~~~~~
           %ld
./src/dark_cuda.c:448:63: warning: format '%d' expects argument of type 'int', but argume
nt 2 has type 'long unsigned int' [-Wformat=]
    printf("Try to allocate new pinned BLOCK, size = %d MB \n", size / (1024 *
1024));
           ~^
           ~~~~~~
           %ld
At top level:
./src/dark_cuda.c:288:23: warning: 'switchBlasHandle' defined but not used [-Wunused-vari
able]
    static cublasHandle_t switchBlasHandle[16];
                          ^~~~~~
./src/dark_cuda.c:287:12: warning: 'switchBlasInit' defined but not used [-Wunused-variab
le]

```

```

static int switchBlasInit[16] = { 0 };
~~~~~
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/convolutional_layer.c -o obj/c
onvolutional_layer.o
./src/convolutional_layer.c: In function 'forward_convolutional_layer':
./src/convolutional_layer.c:1341:32: warning: unused variable 't_intput_size' [-Wunus
ed-variable]
        size_t t_intput_size = binary_transpose_align_input(k, n, state
.workspace, &l.t_bit_input, ldb_align, l.bit_align);
~~~~~
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/list.c -o obj/list.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/image.c -o obj/image.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/activations.c -o obj/activatio
ns.o
./src/activations.c: In function 'activate':
./src/activations.c:79:5: warning: enumeration value 'RELU6' not handled in switch [-Wswi
tch]
    switch(a) {
    ~~~~~
./src/activations.c:79:5: warning: enumeration value 'SWISH' not handled in switch [-Wswi
tch]
./src/activations.c:79:5: warning: enumeration value 'MISH' not handled in switch [-Wswit
ch]
./src/activations.c:79:5: warning: enumeration value 'HARD_MISH' not handled in switch [-
Wswitch]
./src/activations.c:79:5: warning: enumeration value 'NORM_CHAN' not handled in switch [-
Wswitch]
./src/activations.c:79:5: warning: enumeration value 'NORM_CHAN_SOFTMAX' not handled in s
witch [-Wswitch]
./src/activations.c:79:5: warning: enumeration value 'NORM_CHAN_SOFTMAX_MAXVAL' not handl
ed in switch [-Wswitch]
./src/activations.c: In function 'gradient':
./src/activations.c:310:5: warning: enumeration value 'SWISH' not handled in switch [-Wsw
itch]
    switch(a) {
    ~~~~~
./src/activations.c:310:5: warning: enumeration value 'MISH' not handled in switch [-Wswi
tch]
./src/activations.c:310:5: warning: enumeration value 'HARD_MISH' not handled in switch [-
Wswitch]
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/im2col.c -o obj/im2col.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/col2im.c -o obj/col2im.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/blas.c -o obj/blas.o
./src/blas.c: In function 'backward_shortcut_multilayer_cpu':
./src/blas.c:207:21: warning: unused variable 'out_index' [-Wunus
ed-variable]
    int out_index = id;
    ~~~~~
./src/blas.c: In function 'find_sim':
./src/blas.c:597:59: warning: format '%d' expects argument of type 'int', but argument 2
has type 'size_t {aka long unsigned int}' [-Wformat=]
    printf(" Error: find_sim(): sim isn't found: i = %d, j = %d, z = %d \n", i, j,

```

```

z);
                                ~^
                                %ld
./src/blas.c:597:67: warning: format '%d' expects argument of type 'int', but argument 3
has type 'size_t {aka long unsigned int}' [-Wformat=]
    printf(" Error: find_sim(): sim isn't found: i = %d, j = %d, z = %d \n", i, j,
z);
                                ~^
                                %ld
./src/blas.c:597:75: warning: format '%d' expects argument of type 'int', but argument 4
has type 'size_t {aka long unsigned int}' [-Wformat=]
    printf(" Error: find_sim(): sim isn't found: i = %d, j = %d, z = %d \n", i, j,
z);
                                ~^
                                %ld
./src/blas.c: In function 'find_P_constrastive':
./src/blas.c:611:68: warning: format '%d' expects argument of type 'int', but argument 2
has type 'size_t {aka long unsigned int}' [-Wformat=]
    printf(" Error: find_P_constrastive(): P isn't found: i = %d, j = %d, z = %d \n
", i, j, z);
                                ~^
                                %ld
./src/blas.c:611:76: warning: format '%d' expects argument of type 'int', but argument 3
has type 'size_t {aka long unsigned int}' [-Wformat=]
    printf(" Error: find_P_constrastive(): P isn't found: i = %d, j = %d, z = %d \n
", i, j, z);
                                ~^
                                %ld
./src/blas.c:611:84: warning: format '%d' expects argument of type 'int', but argument 4
has type 'size_t {aka long unsigned int}' [-Wformat=]
    printf(" Error: find_P_constrastive(): P isn't found: i = %d, j = %d, z = %d \n
", i, j, z);
                                ~^
                                %ld
./src/blas.c: In function 'P_constrastive_f':
./src/blas.c:651:79: warning: format '%d' expects argument of type 'int', but argument 3
has type 'size_t {aka long unsigned int}' [-Wformat=]
    fprintf(stderr, " Error: in P_constrastive must be i != 1, while i = %d, l = %d
\n", i, l);
                                ~^
                                %ld
./src/blas.c:651:87: warning: format '%d' expects argument of type 'int', but argument 4
has type 'size_t {aka long unsigned int}' [-Wformat=]
    fprintf(stderr, " Error: in P_constrastive must be i != 1, while i = %d, l = %d
\n", i, l);
                                ~
                                %
ld
./src/blas.c: In function 'P_constrastive':
./src/blas.c:785:79: warning: format '%d' expects argument of type 'int', but argument 3
has type 'size_t {aka long unsigned int}' [-Wformat=]
    fprintf(stderr, " Error: in P_constrastive must be i != 1, while i = %d, l = %d
\n", i, l);
                                ~^
                                %ld
./src/blas.c:785:87: warning: format '%d' expects argument of type 'int', but argument 4
has type 'size_t {aka long unsigned int}' [-Wformat=]
    fprintf(stderr, " Error: in P_constrastive must be i != 1, while i = %d, l = %d
\n", i, l);
                                ~
                                %
ld
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall
-l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/crop_layer.c -o obj/crop_layer
.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall
-l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU

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DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/dropout_layer.c -o obj/dropout_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/maxpool_layer.c -o obj/maxpool_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/softmax_layer.c -o obj/softmax_layer.o
./src/softmax_layer.c: In function 'make_contrastive_layer':
./src/softmax_layer.c:203:101: warning: format '%d' expects argument of type 'int', but argument 9 has type 'size_t {aka const long unsigned int}' [-Wformat=]
    fprintf(stderr, "contrastive %4d x%4d x%4d x emb_size %4d x batch: %4d classes = %4d, step = %4d\n", w, h, l.n, l.embedding_size, batch, l.classes, step);
    ~^

%4ld
./src/softmax_layer.c: In function 'forward_contrastive_layer':
./src/softmax_layer.c:244:27: warning: variable 'max_truth' set but not used [-Wunused-but-set-variable]
    float max_truth = 0;
          ^~~~~~

./src/softmax_layer.c:423:71: warning: format '%d' expects argument of type 'int', but argument 2 has type 'size_t {aka const long unsigned int}' [-Wformat=]
    printf(" Error: too large number of bboxes: contr_size = %d > max_contr_size = %d\n", contr_size, max_contr_size);
    ~^
    %ld

gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/data.c -o obj/data.o
./src/data.c: In function 'load_data_detection':
./src/data.c:1297:24: warning: unused variable 'x' [-Wunused-variable]
    int k, x, y;
          ^

./src/data.c:1090:43: warning: variable 'r_scale' set but not used [-Wunused-but-set-variable]
    float r1 = 0, r2 = 0, r3 = 0, r4 = 0, r_scale = 0;
          ^~~~~~

gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/matrix.c -o obj/matrix.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/network.c -o obj/network.o
./src/network.c: In function 'train_network_waitkey':
./src/network.c:435:13: warning: unused variable 'ema_period' [-Wunused-variable]
    int ema_period = (net.max_batches - ema_start_point - 1000) * (1.0 - net.ema_alpha);
    ~~~~~~

./src/network.c: In function 'resize_network':
./src/network.c:660:42: warning: passing argument 1 of 'cudaHostAlloc' from incompatible pointer type [-Wincompatible-pointer-types]
    if (cudaSuccess == cudaHostAlloc(&net->input_pinned_cpu, size * sizeof(float), cudaHostRegisterMapped))
    ~^

In file included from /usr/local/cuda/include/cuda_runtime.h:96:0,
    from include/darknet.h:41,
    from ./src/network.c:1:
/usr/local/cuda/include/cuda_runtime_api.h:4707:39: note: expected 'void **' but argument is of type 'float **'
    extern __host__ cudaError_t CUDARTAPI cudaHostAlloc(void **pHost, size_t size, unsigned int flags);
    ~~~~~~

gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null

```



```

|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/connected_layer.c -o obj/conne
cted_layer.o
./src/connected_layer.c: In function 'forward_connected_layer_gpu':
./src/connected_layer.c:346:11: warning: unused variable 'one' [-Wunused-variable]
    float one = 1;    // alpha[0], beta[0]
        ^~~
./src/connected_layer.c:344:13: warning: unused variable 'c' [-Wunused-variable]
    float * c = l.output_gpu;
        ^
./src/connected_layer.c:343:13: warning: unused variable 'b' [-Wunused-variable]
    float * b = l.weights_gpu;
        ^
./src/connected_layer.c:342:13: warning: unused variable 'a' [-Wunused-variable]
    float * a = state.input;
        ^
./src/connected_layer.c:341:9: warning: unused variable 'n' [-Wunused-variable]
    int n = l.outputs;
        ^
./src/connected_layer.c:340:9: warning: unused variable 'k' [-Wunused-variable]
    int k = l.inputs;
        ^
./src/connected_layer.c:339:9: warning: unused variable 'm' [-Wunused-variable]
    int m = l.batch;
        ^
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/cost_layer.c -o obj/cost_layer
.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/parser.c -o obj/parser.o
./src/parser.c: In function 'parse_network_cfg_custom':
./src/parser.c:1777:42: warning: passing argument 1 of 'cudaHostAlloc' from incompatible
pointer type [-Wincompatible-pointer-types]
    if (cudaSuccess == cudaHostAlloc(&net.input_pinned_cpu, size * sizeof(float), cu
daHostRegisterMapped)) net.input_pinned_cpu_flag = 1;
                                   ^
In file included from /usr/local/cuda/include/cuda_runtime.h:96:0,
    from include/darknet.h:41,
    from ./src/activations.h:3,
    from ./src/activation_layer.h:4,
    from ./src/parser.c:6:
/usr/local/cuda/include/cuda_runtime_api.h:4707:39: note: expected 'void **' but argument
is of type 'float **'
    extern __host__ cudaError_t CUDARTAPI cudaHostAlloc(void **pHost, size_t size, unsigned
int flags);
                                   ^~~~~~
./src/parser.c: In function 'save_implicit_weights':
./src/parser.c:1909:9: warning: unused variable 'i' [-Wunused-variable]
    int i;
        ^
./src/parser.c: In function 'get_classes_multipliers':
./src/parser.c:438:29: warning: argument 1 range [18446744071562067968, 18446744073709551
615] exceeds maximum object size 9223372036854775807 [-Walloc-size-larger-than=]
    classes_multipliers = (float *)calloc(classes_counters, sizeof(float));
    ~~~~~^~~~~~
In file included from ./src/parser.c:3:0:
/usr/include/stdlib.h:541:14: note: in a call to allocation function 'calloc' declared he
re
    extern void *calloc (size_t __nmemb, size_t __size)
                   ^~~~~~
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/option_list.c -o obj/option_li
st.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal

```

```

1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/darknet.c -o obj/darknet.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/detection_layer.c -o obj/detec
tion_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/captcha.c -o obj/captcha.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/route_layer.c -o obj/route_lay
er.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/writing.c -o obj/writing.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/box.c -o obj/box.o
./src/box.c: In function 'box_iou_kind':
./src/box.c:154:5: warning: enumeration value 'MSE' not handled in switch [-Wswitch]
    switch(iou_kind) {
    ^~~~~~
./src/box.c: In function 'diounms_sort':
./src/box.c:898:27: warning: unused variable 'beta_prob' [-Wunused-variable]
    float beta_prob = pow(dets[j].prob[k], 2) / sum_prob;
    ^~~~~~
./src/box.c:897:27: warning: unused variable 'alpha_prob' [-Wunused-variable]
    float alpha_prob = pow(dets[i].prob[k], 2) / sum_prob;
    ^~~~~~
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/nightmare.c -o obj/nightmare.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/normalization_layer.c -o obj/n
ormalization_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/avgpool_layer.c -o obj/avgpool
_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/coco.c -o obj/coco.o
./src/coco.c: In function 'validate_coco_recall':
./src/coco.c:248:11: warning: unused variable 'base' [-Wunused-variable]
    char *base = "results/comp4_det_test_";
    ^~~~
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/dice.c -o obj/dice.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/yolo.c -o obj/yolo.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
1 -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/detector.c -o obj/detector.o
./src/detector.c: In function 'train_detector':
./src/detector.c:386:72: warning: suggest parentheses around '&&' within '||' [-Wparenthe
ses]

```



```

(iteration >= (iter_save + 1000) || iteration % 1000 == 0) && net.max_batche
s < 10000)
~~~~~^~~~~~
~~~~~
./src/detector.c: In function 'print_cocos':
./src/detector.c:486:29: warning: format not a string literal and no format arguments [-W
format-security]
    fprintf(fp, buff);
                ^~~~
./src/detector.c: In function 'eliminate_bdd':
./src/detector.c:579:21: warning: statement with no effect [-Wunused-value]
    for (k; buf[k + n] != '\0'; k++)
    ^~~
./src/detector.c: In function 'validate_detector':
./src/detector.c:700:13: warning: unused variable 'mkd2' [-Wunused-variable]
    int mkd2 = make_directory(buff2, 0777);
    ^~~~~
./src/detector.c:698:13: warning: unused variable 'mkd' [-Wunused-variable]
    int mkd = make_directory(buff, 0777);
    ^~~
./src/detector.c: In function 'validate_detector_map':
./src/detector.c:1315:24: warning: variable 'cur_prob' set but not used [-Wunused-but-set
-variable]
    double cur_prob = 0;
           ^~~~~~
./src/detector.c:1336:15: warning: unused variable 'class_recall' [-Wunused-variable]
    float class_recall = (float)tp_for_thresh_per_class[i] / ((float)tp_for_thresh_p
er_class[i] + (float)(truth_classes_count[i] - tp_for_thresh_per_class[i]));
    ^~~~~~
./src/detector.c:1335:15: warning: unused variable 'class_precision' [-Wunused-variable]
    float class_precision = (float)tp_for_thresh_per_class[i] / ((float)tp_for_thres
h_per_class[i] + (float)fp_for_thresh_per_class[i]);
    ^~~~~~
./src/detector.c: In function 'draw_object':
./src/detector.c:1871:19: warning: unused variable 'inv_loss' [-Wunused-variable]
    float inv_loss = 1.0 / max_val_cmp(0.01, avg_loss);
    ^~~~~~
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/layer.c -o obj/layer.o
./src/layer.c: In function 'free_layer_custom':
./src/layer.c:208:68: warning: suggest parentheses around '&&' within '||' [-Wparenthese
s]
    if (l.delta_gpu && (l.optimized_memory < 1 || l.keep_delta_gpu && l.optimized_memory
< 3)) cuda_free(l.delta_gpu), l.delta_gpu = NULL;
~~~~~^~~~~~
~~~~~
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/compare.c -o obj/compare.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/classifier.c -o obj/classifier
.o
./src/classifier.c: In function 'train_classifier':
./src/classifier.c:146:9: warning: unused variable 'count' [-Wunused-variable]
    int count = 0;
    ^~~~~
./src/classifier.c: In function 'predict_classifier':
./src/classifier.c:855:13: warning: unused variable 'time' [-Wunused-variable]
    clock_t time;
    ^~~
./src/classifier.c: In function 'demo_classifier':
./src/classifier.c:1287:49: warning: unused variable 'tval_result' [-Wunused-variable]
    struct timeval tval_before, tval_after, tval_result;
                ^~~~~~
./src/classifier.c:1287:37: warning: unused variable 'tval_after' [-Wunused-variable]
    struct timeval tval_before, tval_after, tval_result;
                ^~~~~~

```

```

gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/local_layer.c -o obj/local_lay
er.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/swag.c -o obj/swag.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/shortcut_layer.c -o obj/shortc
ut_layer.o
./src/shortcut_layer.c: In function 'make_shortcut_layer':
./src/shortcut_layer.c:55:15: warning: unused variable 'scale' [-Wunused-variable]
    float scale = sqrt(2. / 1.nweights);
        ^~~~~
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/representation_layer.c -o obj/
representation_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/activation_layer.c -o obj/acti
vation_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/rnn_layer.c -o obj/rnn_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/gru_layer.c -o obj/gru_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/rnn.c -o obj/rnn.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/rnn_vid.c -o obj/rnn_vid.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/crnn_layer.c -o obj/crnn_layer
.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/demo.c -o obj/demo.o
./src/demo.c: In function 'detect_in_thread':
./src/demo.c:101:15: warning: unused variable 'l' [-Wunused-variable]
    layer l = net.layers[net.n - 1];
        ^
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/tag.c -o obj/tag.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/cifar.c -o obj/cifar.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/go.c -o obj/go.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wal
l -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU

```

```

DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/batchnorm_layer.c -o obj/batchnorm_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/art.c -o obj/art.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/region_layer.c -o obj/region_layer.o
./src/region_layer.c: In function 'resize_region_layer':
./src/region_layer.c:63:9: warning: unused variable 'old_h' [-Wunused-variable]
    int old_h = l->h;
      ^~~~~~
./src/region_layer.c:62:9: warning: unused variable 'old_w' [-Wunused-variable]
    int old_w = l->w;
      ^~~~~~
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/reorg_layer.c -o obj/reorg_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/reorg_old_layer.c -o obj/reorg_old_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/super.c -o obj/super.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/voxel.c -o obj/voxel.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/tree.c -o obj/tree.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/yolo_layer.c -o obj/yolo_layer.o
./src/yolo_layer.c: In function 'make_yolo_layer':
./src/yolo_layer.c:68:38: warning: passing argument 1 of 'cudaHostAlloc' from incompatible pointer type [-Wincompatible-pointer-types]
    if (cudaSuccess == cudaHostAlloc(&l.output, batch*l.outputs*sizeof(float), cudaHostRegisteredMapped)) l.output_pinned = 1;
                                   ^
In file included from /usr/local/cuda/include/cuda_runtime.h:96:0,
                 from include/darknet.h:41,
                 from ./src/activations.h:3,
                 from ./src/layer.h:4,
                 from ./src/yolo_layer.h:5,
                 from ./src/yolo_layer.c:1:
/usr/local/cuda/include/cuda_runtime_api.h:4707:39: note: expected 'void **' but argument is of type 'float **'
    extern __host__ cudaError_t CUDARTAPI cudaHostAlloc(void **pHost, size_t size, unsigned int flags);
                                         ^~~~~~
./src/yolo_layer.c:75:38: warning: passing argument 1 of 'cudaHostAlloc' from incompatible pointer type [-Wincompatible-pointer-types]
    if (cudaSuccess == cudaHostAlloc(&l.delta, batch*l.outputs*sizeof(float), cudaHostRegisteredMapped)) l.delta_pinned = 1;
                                   ^
In file included from /usr/local/cuda/include/cuda_runtime.h:96:0,
                 from include/darknet.h:41,
                 from ./src/activations.h:3,
                 from ./src/layer.h:4,
                 from ./src/yolo_layer.h:5,

```

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        from ./src/yolo_layer.c:1:
/usr/local/cuda/include/cuda_runtime_api.h:4707:39: note: expected 'void **' but argument
is of type 'float **'
    extern __host__ cudaError_t CUDARTAPI cudaHostAlloc(void **pHost, size_t size, unsigned
int flags);
                                ^~~~~~

./src/yolo_layer.c: In function 'resize_yolo_layer':
./src/yolo_layer.c:106:42: warning: passing argument 1 of 'cudaHostAlloc' from incompatib
le pointer type [-Wincompatible-pointer-types]
    if (cudaSuccess != cudaHostAlloc(&l->output, l->batch*l->outputs * sizeof(float)
, cudaHostRegisterMapped)) {
                                ^

In file included from /usr/local/cuda/include/cuda_runtime.h:96:0,
                 from include/darknet.h:41,
                 from ./src/activations.h:3,
                 from ./src/layer.h:4,
                 from ./src/yolo_layer.h:5,
                 from ./src/yolo_layer.c:1:
/usr/local/cuda/include/cuda_runtime_api.h:4707:39: note: expected 'void **' but argument
is of type 'float **'
    extern __host__ cudaError_t CUDARTAPI cudaHostAlloc(void **pHost, size_t size, unsigned
int flags);
                                ^~~~~~

./src/yolo_layer.c:115:42: warning: passing argument 1 of 'cudaHostAlloc' from incompatib
le pointer type [-Wincompatible-pointer-types]
    if (cudaSuccess != cudaHostAlloc(&l->delta, l->batch*l->outputs * sizeof(float),
cudaHostRegisterMapped)) {
                                ^

In file included from /usr/local/cuda/include/cuda_runtime.h:96:0,
                 from include/darknet.h:41,
                 from ./src/activations.h:3,
                 from ./src/layer.h:4,
                 from ./src/yolo_layer.h:5,
                 from ./src/yolo_layer.c:1:
/usr/local/cuda/include/cuda_runtime_api.h:4707:39: note: expected 'void **' but argument
is of type 'float **'
    extern __host__ cudaError_t CUDARTAPI cudaHostAlloc(void **pHost, size_t size, unsigned
int flags);
                                ^~~~~~

./src/yolo_layer.c: In function 'process_batch':
./src/yolo_layer.c:426:25: warning: variable 'best_match_t' set but not used [-Wunused-bu
t-set-variable]
    int best_match_t = 0;
        ^~~~~~

./src/yolo_layer.c: In function 'forward_yolo_layer':
./src/yolo_layer.c:707:11: warning: unused variable 'avg_anyobj' [-Wunused-variable]
    float avg_anyobj = 0;
        ^~~~~~

./src/yolo_layer.c:706:11: warning: unused variable 'avg_obj' [-Wunused-variable]
    float avg_obj = 0;
        ^~~~~~

./src/yolo_layer.c:705:11: warning: unused variable 'avg_cat' [-Wunused-variable]
    float avg_cat = 0;
        ^~~~~~

./src/yolo_layer.c:704:11: warning: unused variable 'recall75' [-Wunused-variable]
    float recall75 = 0;
        ^~~~~~

./src/yolo_layer.c:703:11: warning: unused variable 'recall' [-Wunused-variable]
    float recall = 0;
        ^~~~~~

./src/yolo_layer.c:702:11: warning: unused variable 'tot_ciou_loss' [-Wunused-variable]
    float tot_ciou_loss = 0;
        ^~~~~~

./src/yolo_layer.c:701:11: warning: unused variable 'tot_diou_loss' [-Wunused-variable]
    float tot_diou_loss = 0;
        ^~~~~~

./src/yolo_layer.c:698:11: warning: unused variable 'tot_ciou' [-Wunused-variable]
    float tot_ciou = 0;
        ^~~~~~

./src/yolo_layer.c:697:11: warning: unused variable 'tot_diou' [-Wunused-variable]
    float tot_diou = 0;
        ^~~~~~

```

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./src/yolo_layer.c:696:11: warning: unused variable 'tot_giou' [-Wunused-variable]
    float tot_giou = 0;
        ^~~~~~

./src/yolo_layer.c:668:12: warning: unused variable 'n' [-Wunused-variable]
    int b, n;
        ^

gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall
-Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU
DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/gaussian_yolo_layer.c -o obj/g
aussian_yolo_layer.o
./src/gaussian_yolo_layer.c: In function 'make_gaussian_yolo_layer':
./src/gaussian_yolo_layer.c:72:38: warning: passing argument 1 of 'cudaHostAlloc' from in
compatible pointer type [-Wincompatible-pointer-types]
    if (cudaSuccess == cudaHostAlloc(&l.output, batch*l.outputs * sizeof(float), cudaHos
tRegisterMapped)) l.output_pinned = 1;
                                   ^

In file included from /usr/local/cuda/include/cuda_runtime.h:96:0,
                 from include/darknet.h:41,
                 from ./src/gaussian_yolo_layer.h:5,
                 from ./src/gaussian_yolo_layer.c:7:
/usr/local/cuda/include/cuda_runtime_api.h:4707:39: note: expected 'void **' but argument
is of type 'float **'
    extern __host__ cudaError_t CUDARTAPI cudaHostAlloc(void **pHost, size_t size, unsigned
int flags);
                                   ^~~~~~

./src/gaussian_yolo_layer.c:79:38: warning: passing argument 1 of 'cudaHostAlloc' from in
compatible pointer type [-Wincompatible-pointer-types]
    if (cudaSuccess == cudaHostAlloc(&l.delta, batch*l.outputs * sizeof(float), cudaHost
RegisterMapped)) l.delta_pinned = 1;
                                   ^

In file included from /usr/local/cuda/include/cuda_runtime.h:96:0,
                 from include/darknet.h:41,
                 from ./src/gaussian_yolo_layer.h:5,
                 from ./src/gaussian_yolo_layer.c:7:
/usr/local/cuda/include/cuda_runtime_api.h:4707:39: note: expected 'void **' but argument
is of type 'float **'
    extern __host__ cudaError_t CUDARTAPI cudaHostAlloc(void **pHost, size_t size, unsigned
int flags);
                                   ^~~~~~

./src/gaussian_yolo_layer.c: In function 'resize_gaussian_yolo_layer':
./src/gaussian_yolo_layer.c:111:42: warning: passing argument 1 of 'cudaHostAlloc' from i
ncompatible pointer type [-Wincompatible-pointer-types]
    if (cudaSuccess != cudaHostAlloc(&l->output, l->batch*l->outputs * sizeof(float)
, cudaHostRegisterMapped)) {
                                   ^

In file included from /usr/local/cuda/include/cuda_runtime.h:96:0,
                 from include/darknet.h:41,
                 from ./src/gaussian_yolo_layer.h:5,
                 from ./src/gaussian_yolo_layer.c:7:
/usr/local/cuda/include/cuda_runtime_api.h:4707:39: note: expected 'void **' but argument
is of type 'float **'
    extern __host__ cudaError_t CUDARTAPI cudaHostAlloc(void **pHost, size_t size, unsigned
int flags);
                                   ^~~~~~

./src/gaussian_yolo_layer.c:120:42: warning: passing argument 1 of 'cudaHostAlloc' from i
ncompatible pointer type [-Wincompatible-pointer-types]
    if (cudaSuccess != cudaHostAlloc(&l->delta, l->batch*l->outputs * sizeof(float),
cudaHostRegisterMapped)) {
                                   ^

In file included from /usr/local/cuda/include/cuda_runtime.h:96:0,
                 from include/darknet.h:41,
                 from ./src/gaussian_yolo_layer.h:5,
                 from ./src/gaussian_yolo_layer.c:7:
/usr/local/cuda/include/cuda_runtime_api.h:4707:39: note: expected 'void **' but argument
is of type 'float **'
    extern __host__ cudaError_t CUDARTAPI cudaHostAlloc(void **pHost, size_t size, unsigned
int flags);
                                   ^~~~~~

gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null
|| pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall
-Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCU

```



```

DNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/upsample_layer.c -o obj/upsample_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/lstm_layer.c -o obj/lstm_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/conv_lstm_layer.c -o obj/conv_lstm_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/scale_channels_layer.c -o obj/scale_channels_layer.o
gcc -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -c ./src/sam_layer.c -o obj/sam_layer.o
nvcc -gencode arch=compute_35,code=sm_35 -gencode arch=compute_50,code=[sm_50,compute_50] -gencode arch=compute_52,code=[sm_52,compute_52] -gencode arch=compute_61,code=[sm_61,compute_61] -gencode arch=compute_70,code=[sm_70,compute_70] -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF --compiler-options "-Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC" -c ./src/convolutional_kernels.cu -o obj/convolutional_kernels.o
nvcc warning : The 'compute_35', 'compute_37', 'compute_50', 'sm_35', 'sm_37' and 'sm_50' architectures are deprecated, and may be removed in a future release (Use -Wno-deprecated-gpu-targets to suppress warning).
nvcc -gencode arch=compute_35,code=sm_35 -gencode arch=compute_50,code=[sm_50,compute_50] -gencode arch=compute_52,code=[sm_52,compute_52] -gencode arch=compute_61,code=[sm_61,compute_61] -gencode arch=compute_70,code=[sm_70,compute_70] -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF --compiler-options "-Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC" -c ./src/activation_kernels.cu -o obj/activation_kernels.o
nvcc warning : The 'compute_35', 'compute_37', 'compute_50', 'sm_35', 'sm_37' and 'sm_50' architectures are deprecated, and may be removed in a future release (Use -Wno-deprecated-gpu-targets to suppress warning).
./src/activation_kernels.cu(263): warning: variable "MISH_THRESHOLD" was declared but never referenced

./src/activation_kernels.cu(263): warning: variable "MISH_THRESHOLD" was declared but never referenced

./src/activation_kernels.cu(263): warning: variable "MISH_THRESHOLD" was declared but never referenced

./src/activation_kernels.cu(263): warning: variable "MISH_THRESHOLD" was declared but never referenced

./src/activation_kernels.cu(263): warning: variable "MISH_THRESHOLD" was declared but never referenced

nvcc -gencode arch=compute_35,code=sm_35 -gencode arch=compute_50,code=[sm_50,compute_50] -gencode arch=compute_52,code=[sm_52,compute_52] -gencode arch=compute_61,code=[sm_61,compute_61] -gencode arch=compute_70,code=[sm_70,compute_70] -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF --compiler-options "-Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC" -c ./src/im2col_kernels.cu -o obj/im2col_kernels.o
nvcc warning : The 'compute_35', 'compute_37', 'compute_50', 'sm_35', 'sm_37' and 'sm_50' architectures are deprecated, and may be removed in a future release (Use -Wno-deprecated-gpu-targets to suppress warning).
nvcc -gencode arch=compute_35,code=sm_35 -gencode arch=compute_50,code=[sm_50,compute_50] -gencode arch=compute_52,code=[sm_52,compute_52] -gencode arch=compute_61,code=[sm_61,compute_61] -gencode arch=compute_70,code=[sm_70,compute_70] -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU

```

```

U -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF --compiler-options "-Wall -Wfatal-error
s -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/loca
l/cudnn/include -DCUDNN_HALF -fPIC" -c ./src/col2im_kernels.cu -o obj/col2im_kernels.o
nvcc warning : The 'compute_35', 'compute_37', 'compute_50', 'sm_35', 'sm_37' and 'sm_50'
architectures are deprecated, and may be removed in a future release (Use -Wno-deprecated
-gpu-targets to suppress warning).
nvcc -gencode arch=compute_35,code=sm_35 -gencode arch=compute_50,code=[sm_50,compute_50]
-gencode arch=compute_52,code=[sm_52,compute_52] -gencode arch=compute_61,code=[sm_61,com
pute_61] -gencode arch=compute_70,code=[sm_70,compute_70] -Iinclude/ -I3rdparty/stb/inclu
de -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGP
U -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF --compiler-options "-Wall -Wfatal-error
s -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/loca
l/cudnn/include -DCUDNN_HALF -fPIC" -c ./src/blas_kernels.cu -o obj/blas_kernels.o
nvcc warning : The 'compute_35', 'compute_37', 'compute_50', 'sm_35', 'sm_37' and 'sm_50'
architectures are deprecated, and may be removed in a future release (Use -Wno-deprecated
-gpu-targets to suppress warning).
./src/blas_kernels.cu(1086): warning: variable "out_index" was declared but never referen
ced

./src/blas_kernels.cu(1130): warning: variable "step" was set but never used

./src/blas_kernels.cu(1736): warning: variable "stage_id" was declared but never referenc
ed

./src/blas_kernels.cu(1086): warning: variable "out_index" was declared but never referen
ced

./src/blas_kernels.cu(1130): warning: variable "step" was set but never used

./src/blas_kernels.cu(1736): warning: variable "stage_id" was declared but never referenc
ed

./src/blas_kernels.cu(1086): warning: variable "out_index" was declared but never referen
ced

./src/blas_kernels.cu(1130): warning: variable "step" was set but never used

./src/blas_kernels.cu(1736): warning: variable "stage_id" was declared but never referenc
ed

./src/blas_kernels.cu(1086): warning: variable "out_index" was declared but never referen
ced

./src/blas_kernels.cu(1130): warning: variable "step" was set but never used

./src/blas_kernels.cu(1736): warning: variable "stage_id" was declared but never referenc
ed

./src/blas_kernels.cu(1086): warning: variable "out_index" was declared but never referen
ced

./src/blas_kernels.cu(1130): warning: variable "step" was set but never used

./src/blas_kernels.cu(1736): warning: variable "stage_id" was declared but never referenc
ed

./src/blas_kernels.cu: In function 'void backward_shortcut_multilayer_gpu(int, int, int,
int*, float**, float*, float*, float*, float*, float*, int, float*, float**, WEIGHTS_NORMA
LIZATION_T)':
./src/blas_kernels.cu:1130:5: warning: variable 'step' set but not used [-Wun
used-but-set-variable]
    int step = 0;
    ^~~~
nvcc -gencode arch=compute_35,code=sm_35 -gencode arch=compute_50,code=[sm_50,compute_50]
-gencode arch=compute_52,code=[sm_52,compute_52] -gencode arch=compute_61,code=[sm_61,com
pute_61] -gencode arch=compute_70,code=[sm_70,compute_70] -Iinclude/ -I3rdparty/stb/inclu
de -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGP
U -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF --compiler-options "-Wall -Wfatal-error
s -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/loca
l/cudnn/include -DCUDNN_HALF -fPIC" -c ./src/crop_layer_kernels.cu -o obj/crop_layer_kern
els.o
nvcc warning: The 'compute_35', 'compute_37', 'compute_50', 'sm_35', 'sm_37' and 'sm_50'

```

architectures are deprecated, and may be removed in a future release (Use -Wno-deprecated-gpu-targets to suppress warning).

```
nvcc -gencode arch=compute_35,code=sm_35 -gencode arch=compute_50,code=[sm_50,compute_50]
-gencode arch=compute_52,code=[sm_52,compute_52] -gencode arch=compute_61,code=[sm_61,com
pute_61] -gencode arch=compute_70,code=[sm_70,compute_70] -Iinclude/ -I3rdparty/stb/inclu
de -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGP
U -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF --compiler-options "-Wall -Wfatal-error
s -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/loca
l/cudnn/include -DCUDNN_HALF -fPIC" -c ./src/dropout_layer_kernels.cu -o obj/dropout_laye
r_kernels.o
```

nvcc warning : The 'compute_35', 'compute_37', 'compute_50', 'sm_35', 'sm_37' and 'sm_50' architectures are deprecated, and may be removed in a future release (Use -Wno-deprecated-gpu-targets to suppress warning).

```
nvcc -gencode arch=compute_35,code=sm_35 -gencode arch=compute_50,code=[sm_50,compute_50]
-gencode arch=compute_52,code=[sm_52,compute_52] -gencode arch=compute_61,code=[sm_61,com
pute_61] -gencode arch=compute_70,code=[sm_70,compute_70] -Iinclude/ -I3rdparty/stb/inclu
de -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGP
U -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF --compiler-options "-Wall -Wfatal-error
s -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/loca
l/cudnn/include -DCUDNN_HALF -fPIC" -c ./src/maxpool_layer_kernels.cu -o obj/maxpool_laye
r_kernels.o
```

nvcc warning : The 'compute_35', 'compute_37', 'compute_50', 'sm_35', 'sm_37' and 'sm_50' architectures are deprecated, and may be removed in a future release (Use -Wno-deprecated-gpu-targets to suppress warning).

```
nvcc -gencode arch=compute_35,code=sm_35 -gencode arch=compute_50,code=[sm_50,compute_50]
-gencode arch=compute_52,code=[sm_52,compute_52] -gencode arch=compute_61,code=[sm_61,com
pute_61] -gencode arch=compute_70,code=[sm_70,compute_70] -Iinclude/ -I3rdparty/stb/inclu
de -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGP
U -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF --compiler-options "-Wall -Wfatal-error
s -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/loca
l/cudnn/include -DCUDNN_HALF -fPIC" -c ./src/network_kernels.cu -o obj/network_kernels.o
```

nvcc warning : The 'compute_35', 'compute_37', 'compute_50', 'sm_35', 'sm_37' and 'sm_50' architectures are deprecated, and may be removed in a future release (Use -Wno-deprecated-gpu-targets to suppress warning).

./src/network_kernels.cu(379): warning: variable "l" was declared but never referenced

./src/network_kernels.cu(379): warning: variable "l" was declared but never referenced

./src/network_kernels.cu(379): warning: variable "l" was declared but never referenced

./src/network_kernels.cu(379): warning: variable "l" was declared but never referenced

./src/network_kernels.cu(379): warning: variable "l" was declared but never referenced

./src/network_kernels.cu: In function 'float train_network_datum_gpu(network, float*, flo
at*)':

./src/network_kernels.cu:379:7: **warning:** variable 'l' set but not used [-Wunused-but-set-
variable]

layer l = net.layers[net.n - 1];

```
nvcc -gencode arch=compute_35,code=sm_35 -gencode arch=compute_50,code=[sm_50,compute_50]
-gencode arch=compute_52,code=[sm_52,compute_52] -gencode arch=compute_61,code=[sm_61,com
pute_61] -gencode arch=compute_70,code=[sm_70,compute_70] -Iinclude/ -I3rdparty/stb/inclu
de -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags opencv` -DGP
U -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF --compiler-options "-Wall -Wfatal-error
s -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/loca
l/cudnn/include -DCUDNN_HALF -fPIC" -c ./src/avgpool_layer_kernels.cu -o obj/avgpool_laye
r_kernels.o
```

nvcc warning : The 'compute_35', 'compute_37', 'compute_50', 'sm_35', 'sm_37' and 'sm_50' architectures are deprecated, and may be removed in a future release (Use -Wno-deprecated-gpu-targets to suppress warning).

```
g++ -std=c++11 -std=c++11 -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags
opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCU
DNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofas
t -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC obj/image_opencv.o
obj/http_stream.o obj/gemm.o obj/utils.o obj/dark_cuda.o obj/convolutional_layer.o obj/li
st.o obj/image.o obj/activations.o obj/im2col.o obj/col2im.o obj/blas.o obj/crop_layer.o
obj/dropout_layer.o obj/maxpool_layer.o obj/softmax_layer.o obj/data.o obj/matrix.o obj/n
etwork.o obj/connected_layer.o obj/cost_layer.o obj/parser.o obj/option_list.o obj/darkne
t.o obj/detection_layer.o obj/captcha.o obj/route_layer.o obj/writing.o obj/box.o obj/nig
htmare.o obj/normalization_layer.o obj/avgpool_layer.o obj/coco.o obj/dice.o obj/yolo.o o
bj/detector.o obj/layer.o obj/compare.o obj/classifier.o obj/local_layer.o obj/swag.o obj
```

```

/shortcut_layer.o obj/representation_layer.o obj/activation_layer.o obj/rnn_layer.o obj/g
ru_layer.o obj/rnn.o obj/rnn_vid.o obj/crnn_layer.o obj/demo.o obj/tag.o obj/cifar.o obj/
go.o obj/batchnorm_layer.o obj/art.o obj/region_layer.o obj/reorg_layer.o obj/reorg_old_l
ayer.o obj/super.o obj/voxel.o obj/tree.o obj/yolo_layer.o obj/gaussian_yolo_layer.o obj/
upsample_layer.o obj/lstm_layer.o obj/conv_lstm_layer.o obj/scale_channels_layer.o obj/sa
m_layer.o obj/convolutional_kernels.o obj/activation_kernels.o obj/im2col_kernels.o obj/c
ol2im_kernels.o obj/blas_kernels.o obj/crop_layer_kernels.o obj/dropout_layer_kernels.o o
bj/maxpool_layer_kernels.o obj/network_kernels.o obj/avgpool_layer_kernels.o -o darknet -
lm -pthread `pkg-config --libs opencv4 2> /dev/null || pkg-config --libs opencv` -L/usr/l
ocal/cuda/lib64 -lcuda -lcudart -lcublas -lcurand -L/usr/local/cudnn/lib64 -lcudnn -lstdc
++
g++ -std=c++11 -shared -std=c++11 -fvisibility=hidden -DLIB_EXPORTS -Iinclude/ -I3rdparty
/stb/include -DOPENCV `pkg-config --cflags opencv4 2> /dev/null || pkg-config --cflags op
encv` -DGPU -I/usr/local/cuda/include/ -DCUDNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unu
sed-result -Wno-unknown-pragmas -fPIC -Ofast -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/in
clude -DCUDNN_HALF -fPIC ./obj/image_opencv.o ./obj/http_stream.o ./obj/gemm.o ./obj/util
s.o ./obj/dark_cuda.o ./obj/convolutional_layer.o ./obj/list.o ./obj/image.o ./obj/activa
tions.o ./obj/im2col.o ./obj/col2im.o ./obj/blas.o ./obj/crop_layer.o ./obj/dropout_layer
.o ./obj/maxpool_layer.o ./obj/softmax_layer.o ./obj/data.o ./obj/matrix.o ./obj/network.
o ./obj/connected_layer.o ./obj/cost_layer.o ./obj/parser.o ./obj/option_list.o ./obj/dar
knet.o ./obj/detection_layer.o ./obj/captcha.o ./obj/route_layer.o ./obj/writing.o ./obj/
box.o ./obj/nightmare.o ./obj/normalization_layer.o ./obj/avgpool_layer.o ./obj/coco.o ./
obj/dice.o ./obj/yolo.o ./obj/detector.o ./obj/layer.o ./obj/compare.o ./obj/classifier.o
./obj/local_layer.o ./obj/swag.o ./obj/shortcut_layer.o ./obj/representation_layer.o ./ob
j/activation_layer.o ./obj/rnn_layer.o ./obj/gru_layer.o ./obj/rnn.o ./obj/rnn_vid.o ./ob
j/crnn_layer.o ./obj/demo.o ./obj/tag.o ./obj/cifar.o ./obj/go.o ./obj/batchnorm_layer.o
./obj/art.o ./obj/region_layer.o ./obj/reorg_layer.o ./obj/reorg_old_layer.o ./obj/super.
o ./obj/voxel.o ./obj/tree.o ./obj/yolo_layer.o ./obj/gaussian_yolo_layer.o ./obj/upsampl
e_layer.o ./obj/lstm_layer.o ./obj/conv_lstm_layer.o ./obj/scale_channels_layer.o ./obj/s
am_layer.o ./obj/convolutional_kernels.o ./obj/activation_kernels.o ./obj/im2col_kernels.
o ./obj/col2im_kernels.o ./obj/blas_kernels.o ./obj/crop_layer_kernels.o ./obj/dropout_la
yer_kernels.o ./obj/maxpool_layer_kernels.o ./obj/network_kernels.o ./obj/avgpool_layer_k
ernels.o src/yolo_v2_class.cpp -o libdarknet.so -lm -pthread `pkg-config --libs opencv4 2
> /dev/null || pkg-config --libs opencv` -L/usr/local/cuda/lib64 -lcuda -lcudart -lcublas
-lcurand -L/usr/local/cudnn/lib64 -lcudnn -lstdc++
In file included from src/yolo_v2_class.cpp:2:0:
include/yolo_v2_class.hpp: In member function 'void track_kalman_t::clear_old_states()':
include/yolo_v2_class.hpp:878:50: warning: comparison between signed and unsigned integer
expressions [-Wsign-compare]
        if ((result_vec_pred[state_id].x > img_size.width) ||
include/yolo_v2_class.hpp:879:50: warning: comparison between signed and unsigned integer
expressions [-Wsign-compare]
        (result_vec_pred[state_id].y > img_size.height))
include/yolo_v2_class.hpp: In member function 'track_kalman_t::tst_t track_kalman_t::get_
state_id(bbox_t, std::vector<bool>&)':
include/yolo_v2_class.hpp:899:30: warning: comparison between signed and unsigned integer
expressions [-Wsign-compare]
        for (size_t i = 0; i < max_objects; ++i)
            ~~~~~^~~~~~
include/yolo_v2_class.hpp: In member function 'std::vector<bbox_t> track_kalman_t::predic
t()':
include/yolo_v2_class.hpp:989:30: warning: comparison between signed and unsigned integer
expressions [-Wsign-compare]
        for (size_t i = 0; i < max_objects; ++i)
            ~~~~~^~~~~~
include/yolo_v2_class.hpp: In member function 'std::vector<bbox_t> track_kalman_t::correc
t(std::vector<bbox_t>)':
include/yolo_v2_class.hpp:1024:30: warning: comparison between signed and unsigned intege
r expressions [-Wsign-compare]
        for (size_t i = 0; i < max_objects; ++i)
            ~~~~~^~~~~~
src/yolo_v2_class.cpp: In member function 'std::vector<bbox_t> Detector::tracking_id(std:
:vector<bbox_t>, bool, int, int)':
src/yolo_v2_class.cpp:370:40: warning: comparison between signed and unsigned integer exp
ressions [-Wsign-compare]
        if (prev_bbox_vec_deque.size() > frames_story) prev_bbox_vec_deque.pop_back();
            ~~~~~^~~~~~
src/yolo_v2_class.cpp:385:34: warning: comparison between signed and unsigned integer exp
ressions [-Wsign-compare]
        if (cur_dist < max_dist && (k.track_id == 0 || dist_vec[m] > cur_dis
t)) {
            ~~~~~^~~~~~

```

```

src/yolo_v2_class.cpp:409:40: warning: comparison between signed and unsigned integer exp
ressions [-Wsign-compare]
    if (prev_bbox_vec_deque.size() > frames_story) prev_bbox_vec_deque.pop_back();
        ~~~~~^~~~~~
g++ -std=c++11 -std=c++11 -Iinclude/ -I3rdparty/stb/include -DOPENCV `pkg-config --cflags
opencv4 2> /dev/null || pkg-config --cflags opencv` -DGPU -I/usr/local/cuda/include/ -DCU
DNN -DCUDNN_HALF -Wall -Wfatal-errors -Wno-unused-result -Wno-unknown-pragmas -fPIC -Ofas
t -DOPENCV -DGPU -DCUDNN -I/usr/local/cudnn/include -DCUDNN_HALF -fPIC -o uselib src/yolo
_console_dll.cpp -lm -pthread `pkg-config --libs opencv4 2> /dev/null || pkg-config --lib
s opencv` -L/usr/local/cuda/lib64 -lcuda -lcudart -lcublas -lcublas -L/usr/local/cudnn/li
b64 -lcudnn -lstdc++ -L ./ -l:libdarknet.so
In file included from src/yolo_console_dll.cpp:23:0:
include/yolo_v2_class.hpp: In member function 'void track_kalman_t::clear_old_states()':
include/yolo_v2_class.hpp:878:50: warning: comparison between signed and unsigned integer
expressions [-Wsign-compare]
    if ((result_vec_pred[state_id].x > img_size.width) ||
        (result_vec_pred[state_id].y > img_size.height))
include/yolo_v2_class.hpp:879:50: warning: comparison between signed and unsigned integer
expressions [-Wsign-compare]
    (result_vec_pred[state_id].y > img_size.height))
include/yolo_v2_class.hpp: In member function 'track_kalman_t::tst_t track_kalman_t::get_
state_id(bbox_t, std::vector<bool>&)' :
include/yolo_v2_class.hpp:899:30: warning: comparison between signed and unsigned integer
expressions [-Wsign-compare]
    for (size_t i = 0; i < max_objects; ++i)
        ~~~~~^~~~~~
include/yolo_v2_class.hpp: In member function 'std::vector<bbox_t> track_kalman_t::predic
t()' :
include/yolo_v2_class.hpp:989:30: warning: comparison between signed and unsigned integer
expressions [-Wsign-compare]
    for (size_t i = 0; i < max_objects; ++i)
        ~~~~~^~~~~~
include/yolo_v2_class.hpp: In member function 'std::vector<bbox_t> track_kalman_t::correc
t(std::vector<bbox_t>)' :
include/yolo_v2_class.hpp:1024:30: warning: comparison between signed and unsigned intege
r expressions [-Wsign-compare]
    for (size_t i = 0; i < max_objects; ++i)
        ~~~~~^~~~~~
src/yolo_console_dll.cpp: In function 'void draw_boxes(cv::Mat, std::vector<bbox_t>, std:
:vector<std::__cxx11::basic_string<char>, int, int)' :
src/yolo_console_dll.cpp:192:46: warning: comparison between signed and unsigned integer
expressions [-Wsign-compare]
    int max_width = (text_size.width > i.w + 2) ? text_size.width : (i.w + 2);
        ~~~~~^~~~~~
src/yolo_console_dll.cpp:201:62: warning: comparison between signed and unsigned integer
expressions [-Wsign-compare]
    int const max_width_3d = (text_size_3d.width > i.w + 2) ? text_size_3d.
width : (i.w + 2);
        ~~~~~^~~~~~
src/yolo_console_dll.cpp:183:15: warning: unused variable 'colors' [-Wunused-variable]
    int const colors[6][3] = { { 1,0,1 }, { 0,0,1 }, { 0,1,1 }, { 0,1,0 }, { 1,1,0 }, { 1,0,0
} };
        ~~~~~^~~~~~

```

In [11]:

```

[!] wget https://github.com/AlexyAB/darknet/releases/download/darknet_yolo_v3_optional/yolo
v4.weights

```

```

--2021-07-18 09:33:06-- https://github.com/AlexyAB/darknet/releases/download/darknet_yol
o_v3_optional/yolov4.weights
Resolving github.com (github.com)... 140.82.114.4
Connecting to github.com (github.com)|140.82.114.4|:443... connected.
HTTP request sent, awaiting response... 404 Not Found
2021-07-18 09:33:06 ERROR 404: Not Found.

```

In [12]:

```

[!] chmod +x ./darknet

```

In [13]:


```
python process.py
```

python3: can't open file 'process.py': [Errno 2] No such file or directory

In [14]:

```
./darknet detector train data/obj.data cfg/yolov4-custom.cfg yolov4.conv.137 -dont_show  
-map
```

CUDA status Error: file: ./src/dark_cuda.c : () : line: 39 : build time: Jul 18 2021 - 09 :27:51

CUDA Error: no CUDA-capable device is detected
Darknet error location: ./src/dark_cuda.c, check_error, line #70
CUDA Error: no CUDA-capable device is detected: Bad file descriptor

In [15]:

```
%cd cfg  
sed -i 's/batch=64/batch=1/' yolov4-custom.cfg  
sed -i 's/subdivisions=16/subdivisions=1/' yolov4-custom.cfg  
%cd ..
```

```
/content/darknet/cfg  
/content/darknet
```

In [16]:

```
# define helper functions  
def imShow(path):  
    import cv2  
    import matplotlib.pyplot as plt  
    %matplotlib inline  
  
    image = cv2.imread(path)  
    height, width = image.shape[:2]  
    resized_image = cv2.resize(image, (3*width, 3*height), interpolation = cv2.INTER_CUBIC)  
  
    fig = plt.gcf()  
    fig.set_size_inches(18, 10)  
    plt.axis("off")  
    plt.imshow(cv2.cvtColor(resized_image, cv2.COLOR_BGR2RGB))  
    plt.show()  
  
# use this to upload files  
def upload():  
    from google.colab import files  
    uploaded = files.upload()  
    for name, data in uploaded.items():  
        with open(name, 'wb') as f:  
            f.write(data)  
            print ('saved file', name)  
  
# use this to download a file  
def download(path):  
    from google.colab import files  
    files.download(path)
```

In [17]:

```
./darknet detector test data/obj.data cfg/yolov4-custom.cfg /mydrive/yolov4/training/yolov4-custom_best.weights /mydrive/mask_test_images/image1.jpg -thresh 0.3
```

CUDA status Error: file: ./src/dark_cuda.c : () : line: 39 : build time: Jul 18 2021 - 09 :27:51

CUDA Error: no CUDA-capable device is detected
Darknet error location: ./src/dark_cuda.c, check_error, line #70
CUDA Error: no CUDA-capable device is detected: Bad file descriptor

In [18]:

```
from google.colab import files
upload = files.upload()
```

Choose File

No file selected

Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

Saving sample.png to sample.png

In [19]:

```
imshow('sample.png')
```



In [21]:

```
!./darknet detector test data/obj.data cfg/yolov4-custom.cfg /My Drive/yolov4/training/yolov4-custom_best.weights /My Drive/yolov4/test.jpg -thresh 0.3
imshow('sample.png')
```

CUDA status Error: file: ./src/dark_cuda.c : () : line: 39 : build time: Jul 18 2021 - 09 :27:51

CUDA Error: no CUDA-capable device is detected
Darknet error location: ./src/dark_cuda.c, check_error, line #70
CUDA Error: no CUDA-capable device is detected: Bad file descriptor



