[net]

# Testing

# batch=1

# subdivisions=1

# Training

batch=64

subdivisions=16

width=608

height=608

channels=3

momentum=0.9

decay=0.0005

angle=0

saturation = 1.5

exposure = 1.5

hue=.1

learning\_rate=0.001

burn\_in=10

max\_batches = 500

policy=steps

steps=400,450

scales=.1,.1

[convolutional]

batch\_normalize=1

filters=32

size=3

stride=1

pad=1

activation=leaky

# Downsample

[convolutional]

batch\_normalize=1

filters=64

size=3

stride=2

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=32

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=64

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

# Downsample

[convolutional]

batch\_normalize=1

filters=128

size=3

stride=2

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=64

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=128

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=64

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=128

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

# Downsample

[convolutional]

batch\_normalize=1

filters=256

size=3

stride=2

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=256

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=256

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=256

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=256

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=256

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=256

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=256

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=256

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

# Downsample

[convolutional]

batch\_normalize=1

filters=512

size=3

stride=2

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=512

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=512

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=512

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=512

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=512

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=512

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=512

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=512

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

# Downsample

[convolutional]

batch\_normalize=1

filters=1024

size=3

stride=2

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=512

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=1024

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=512

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=1024

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=512

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=1024

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

[convolutional]

batch\_normalize=1

filters=512

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

filters=1024

size=3

stride=1

pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

######################

[convolutional]

batch\_normalize=1

filters=512

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

size=3

stride=1

pad=1

filters=1024

activation=leaky

[convolutional]

batch\_normalize=1

filters=512

size=1

stride=1

pad=1

activation=leaky

### SPP ###

[maxpool]

stride=1

size=5

[route]

layers=-2

[maxpool]

stride=1

size=9

[route]

layers=-4

[maxpool]

stride=1

size=13

[route]

layers=-1,-3,-5,-6

### End SPP ###

[convolutional]

batch\_normalize=1

filters=512

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

size=3

stride=1

pad=1

filters=1024

activation=leaky

[convolutional]

batch\_normalize=1

filters=512

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

size=3

stride=1

pad=1

filters=1024

activation=leaky

[convolutional]

size=1

stride=1

pad=1

filters=18

activation=linear

[yolo]

mask = 6,7,8

anchors = 10,13, 16,30, 33,23, 30,61, 62,45, 59,119, 116,90, 156,198, 373,326

classes=1

num=9

jitter=.3

ignore\_thresh = .7

truth\_thresh = 1

random=1

[route]

layers = -4

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[upsample]

stride=2

[route]

layers = -1, 61

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

size=3

stride=1

pad=1

filters=512

activation=leaky

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

size=3

stride=1

pad=1

filters=512

activation=leaky

[convolutional]

batch\_normalize=1

filters=256

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

size=3

stride=1

pad=1

filters=512

activation=leaky

[convolutional]

size=1

stride=1

pad=1

filters=18

activation=linear

[yolo]

mask = 3,4,5

anchors = 10,13, 16,30, 33,23, 30,61, 62,45, 59,119, 116,90, 156,198, 373,326

classes=1

num=9

jitter=.3

ignore\_thresh = .7

truth\_thresh = 1

random=1

[route]

layers = -4

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[upsample]

stride=2

[route]

layers = -1, 36

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

size=3

stride=1

pad=1

filters=256

activation=leaky

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

size=3

stride=1

pad=1

filters=256

activation=leaky

[convolutional]

batch\_normalize=1

filters=128

size=1

stride=1

pad=1

activation=leaky

[convolutional]

batch\_normalize=1

size=3

stride=1

pad=1

filters=256

activation=leaky

[convolutional]

size=1

stride=1

pad=1

filters=18

activation=linear

[yolo]

mask = 0,1,2

anchors = 10,13, 16,30, 33,23, 30,61, 62,45, 59,119, 116,90, 156,198, 373,326

classes=1

num=9

jitter=.3

ignore\_thresh = .7

truth\_thresh = 1

random=1