```
custom-yolov4-detector
layer     filters    size                input
output
    0 Couldn't find activation function mish, going with
ReLU
conv      32  3 x 3 / 1   416 x 416 x   3   ->   416 x 416 x
32  0.299 BFLOPs
    1 Couldn't find activation function mish, going with
ReLU
conv      64  3 x 3 / 2   416 x 416 x  32   ->   208 x 208 x
64  1.595 BFLOPs
    2 Couldn't find activation function mish, going with
ReLU
conv      64  1 x 1 / 1   208 x 208 x  64   ->   208 x 208 x
64  0.354 BFLOPs
    3 route  1
    4 Couldn't find activation function mish, going with
ReLU
conv      64  1 x 1 / 1   208 x 208 x  64   ->   208 x 208 x
64  0.354 BFLOPs
    5 Couldn't find activation function mish, going with
ReLU
conv      32  1 x 1 / 1   208 x 208 x  64   ->   208 x 208 x
32  0.177 BFLOPs
    6 Couldn't find activation function mish, going with
ReLU
conv      64  3 x 3 / 1   208 x 208 x  32   ->   208 x 208 x
64  1.595 BFLOPs
    7 res    4                   208 x 208 x  64   ->   208 x
208 x  64
    8 Couldn't find activation function mish, going with
ReLU
conv      64  1 x 1 / 1   208 x 208 x  64   ->   208 x 208 x
64  0.354 BFLOPs
    9 route  8 2
   10 Couldn't find activation function mish, going with
ReLU
conv      64  1 x 1 / 1   208 x 208 x 128   ->   208 x 208 x
64  0.709 BFLOPs
   11 Couldn't find activation function mish, going with
ReLU
```

```
conv      128   3 x 3 / 2    208 x 208 x  64    ->    104 x 104 x
128   1.595 BFLOPs
   12 Couldn't find activation function mish, going with
ReLU
conv       64   1 x 1 / 1    104 x 104 x 128    ->    104 x 104 x
64   0.177 BFLOPs
   13 route   11
   14 Couldn't find activation function mish, going with
ReLU
conv       64   1 x 1 / 1    104 x 104 x 128    ->    104 x 104 x
64   0.177 BFLOPs
   15 Couldn't find activation function mish, going with
ReLU
conv       64   1 x 1 / 1    104 x 104 x  64    ->    104 x 104 x
64   0.089 BFLOPs
   16 Couldn't find activation function mish, going with
ReLU
conv       64   3 x 3 / 1    104 x 104 x  64    ->    104 x 104 x
64   0.797 BFLOPs
   17 res   14                        104 x 104 x  64    ->    104 x
104 x  64
   18 Couldn't find activation function mish, going with
ReLU
conv       64   1 x 1 / 1    104 x 104 x  64    ->    104 x 104 x
64   0.089 BFLOPs
   19 Couldn't find activation function mish, going with
ReLU
conv       64   3 x 3 / 1    104 x 104 x  64    ->    104 x 104 x
64   0.797 BFLOPs
   20 res   17                        104 x 104 x  64    ->    104 x
104 x  64
   21 Couldn't find activation function mish, going with
ReLU
conv       64   1 x 1 / 1    104 x 104 x  64    ->    104 x 104 x
64   0.089 BFLOPs
   22 route   21 12
   23 Couldn't find activation function mish, going with
ReLU
conv      128   1 x 1 / 1    104 x 104 x 128    ->    104 x 104 x
128   0.354 BFLOPs
   24 Couldn't find activation function mish, going with
```

```
ReLU
conv     256  3 x 3 / 2   104 x 104 x 128   ->    52 x  52 x
256  1.595 BFLOPs
   25 Couldn't find activation function mish, going with
ReLU
conv     128  1 x 1 / 1    52 x  52 x 256   ->    52 x  52 x
128  0.177 BFLOPs
   26 route  24
   27 Couldn't find activation function mish, going with
ReLU
conv     128  1 x 1 / 1    52 x  52 x 256   ->    52 x  52 x
128  0.177 BFLOPs
   28 Couldn't find activation function mish, going with
ReLU
conv     128  1 x 1 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.089 BFLOPs
   29 Couldn't find activation function mish, going with
ReLU
conv     128  3 x 3 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.797 BFLOPs
   30 res   27                  52 x  52 x 128   ->    52 x
52 x 128
   31 Couldn't find activation function mish, going with
ReLU
conv     128  1 x 1 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.089 BFLOPs
   32 Couldn't find activation function mish, going with
ReLU
conv     128  3 x 3 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.797 BFLOPs
   33 res   30                  52 x  52 x 128   ->    52 x
52 x 128
   34 Couldn't find activation function mish, going with
ReLU
conv     128  1 x 1 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.089 BFLOPs
   35 Couldn't find activation function mish, going with
ReLU
conv     128  3 x 3 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.797 BFLOPs
   36 res   33                  52 x  52 x 128   ->    52 x
```

```
52 x 128
   37 Couldn't find activation function mish, going with
ReLU
conv    128  1 x 1 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.089 BFLOPs
   38 Couldn't find activation function mish, going with
ReLU
conv    128  3 x 3 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.797 BFLOPs
   39 res    36                 52 x  52 x 128   ->    52 x
52 x 128
   40 Couldn't find activation function mish, going with
ReLU
conv    128  1 x 1 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.089 BFLOPs
   41 Couldn't find activation function mish, going with
ReLU
conv    128  3 x 3 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.797 BFLOPs
   42 res    39                 52 x  52 x 128   ->    52 x
52 x 128
   43 Couldn't find activation function mish, going with
ReLU
conv    128  1 x 1 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.089 BFLOPs
   44 Couldn't find activation function mish, going with
ReLU
conv    128  3 x 3 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.797 BFLOPs
   45 res    42                 52 x  52 x 128   ->    52 x
52 x 128
   46 Couldn't find activation function mish, going with
ReLU
conv    128  1 x 1 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.089 BFLOPs
   47 Couldn't find activation function mish, going with
ReLU
conv    128  3 x 3 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.797 BFLOPs
   48 res    45                 52 x  52 x 128   ->    52 x
52 x 128
```

```
   49 Couldn't find activation function mish, going with
ReLU
conv    128  1 x 1 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.089 BFLOPs
   50 Couldn't find activation function mish, going with
ReLU
conv    128  3 x 3 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.797 BFLOPs
   51 res   48                     52 x  52 x 128   ->    52 x
52 x 128
   52 Couldn't find activation function mish, going with
ReLU
conv    128  1 x 1 / 1    52 x  52 x 128   ->    52 x  52 x
128  0.089 BFLOPs
   53 route  52 25
   54 Couldn't find activation function mish, going with
ReLU
conv    256  1 x 1 / 1    52 x  52 x 256   ->    52 x  52 x
256  0.354 BFLOPs
   55 Couldn't find activation function mish, going with
ReLU
conv    512  3 x 3 / 2    52 x  52 x 256   ->    26 x  26 x
512  1.595 BFLOPs
   56 Couldn't find activation function mish, going with
ReLU
conv    256  1 x 1 / 1    26 x  26 x 512   ->    26 x  26 x
256  0.177 BFLOPs
   57 route  55
   58 Couldn't find activation function mish, going with
ReLU
conv    256  1 x 1 / 1    26 x  26 x 512   ->    26 x  26 x
256  0.177 BFLOPs
   59 Couldn't find activation function mish, going with
ReLU
conv    256  1 x 1 / 1    26 x  26 x 256   ->    26 x  26 x
256  0.089 BFLOPs
   60 Couldn't find activation function mish, going with
ReLU
conv    256  3 x 3 / 1    26 x  26 x 256   ->    26 x  26 x
256  0.797 BFLOPs
   61 res   58                     26 x  26 x 256   ->    26 x
```

```
26 x 256
    62 Couldn't find activation function mish, going with
ReLU
conv     256  1 x 1 / 1     26 x  26 x 256    ->     26 x  26 x
256  0.089 BFLOPs
    63 Couldn't find activation function mish, going with
ReLU
conv     256  3 x 3 / 1     26 x  26 x 256    ->     26 x  26 x
256  0.797 BFLOPs
    64 res    61                      26 x  26 x 256    ->     26 x
26 x 256
    65 Couldn't find activation function mish, going with
ReLU
conv     256  1 x 1 / 1     26 x  26 x 256    ->     26 x  26 x
256  0.089 BFLOPs
    66 Couldn't find activation function mish, going with
ReLU
conv     256  3 x 3 / 1     26 x  26 x 256    ->     26 x  26 x
256  0.797 BFLOPs
    67 res    64                      26 x  26 x 256    ->     26 x
26 x 256
    68 Couldn't find activation function mish, going with
ReLU
conv     256  1 x 1 / 1     26 x  26 x 256    ->     26 x  26 x
256  0.089 BFLOPs
    69 Couldn't find activation function mish, going with
ReLU
conv     256  3 x 3 / 1     26 x  26 x 256    ->     26 x  26 x
256  0.797 BFLOPs
    70 res    67                      26 x  26 x 256    ->     26 x
26 x 256
    71 Couldn't find activation function mish, going with
ReLU
conv     256  1 x 1 / 1     26 x  26 x 256    ->     26 x  26 x
256  0.089 BFLOPs
    72 Couldn't find activation function mish, going with
ReLU
conv     256  3 x 3 / 1     26 x  26 x 256    ->     26 x  26 x
256  0.797 BFLOPs
    73 res    70                      26 x  26 x 256    ->     26 x
26 x 256
```

```
  74 Couldn't find activation function mish, going with
ReLU
conv     256  1 x 1 / 1    26 x  26 x 256    ->     26 x  26 x
256  0.089 BFLOPs
  75 Couldn't find activation function mish, going with
ReLU
conv     256  3 x 3 / 1    26 x  26 x 256    ->     26 x  26 x
256  0.797 BFLOPs
  76 res    73                        26 x  26 x 256    ->     26 x
26 x 256
  77 Couldn't find activation function mish, going with
ReLU
conv     256  1 x 1 / 1    26 x  26 x 256    ->     26 x  26 x
256  0.089 BFLOPs
  78 Couldn't find activation function mish, going with
ReLU
conv     256  3 x 3 / 1    26 x  26 x 256    ->     26 x  26 x
256  0.797 BFLOPs
  79 res    76                        26 x  26 x 256    ->     26 x
26 x 256
  80 Couldn't find activation function mish, going with
ReLU
conv     256  1 x 1 / 1    26 x  26 x 256    ->     26 x  26 x
256  0.089 BFLOPs
  81 Couldn't find activation function mish, going with
ReLU
conv     256  3 x 3 / 1    26 x  26 x 256    ->     26 x  26 x
256  0.797 BFLOPs
  82 res    79                        26 x  26 x 256    ->     26 x
26 x 256
  83 Couldn't find activation function mish, going with
ReLU
conv     256  1 x 1 / 1    26 x  26 x 256    ->     26 x  26 x
256  0.089 BFLOPs
  84 route  83 56
  85 Couldn't find activation function mish, going with
ReLU
conv     512  1 x 1 / 1    26 x  26 x 512    ->     26 x  26 x
512  0.354 BFLOPs
  86 Couldn't find activation function mish, going with
ReLU
```

```
conv    1024   3 x 3 / 2     26 x  26 x 512    ->     13 x  13
x1024   1.595 BFLOPs
   87 Couldn't find activation function mish, going with
ReLU
conv     512   1 x 1 / 1     13 x  13 x1024    ->     13 x  13 x
512   0.177 BFLOPs
   88 route  86
   89 Couldn't find activation function mish, going with
ReLU
conv     512   1 x 1 / 1     13 x  13 x1024    ->     13 x  13 x
512   0.177 BFLOPs
   90 Couldn't find activation function mish, going with
ReLU
conv     512   1 x 1 / 1     13 x  13 x 512    ->     13 x  13 x
512   0.089 BFLOPs
   91 Couldn't find activation function mish, going with
ReLU
conv     512   3 x 3 / 1     13 x  13 x 512    ->     13 x  13 x
512   0.797 BFLOPs
   92 res    89                        13 x  13 x 512    ->     13 x
13 x 512
   93 Couldn't find activation function mish, going with
ReLU
conv     512   1 x 1 / 1     13 x  13 x 512    ->     13 x  13 x
512   0.089 BFLOPs
   94 Couldn't find activation function mish, going with
ReLU
conv     512   3 x 3 / 1     13 x  13 x 512    ->     13 x  13 x
512   0.797 BFLOPs
   95 res    92                        13 x  13 x 512    ->     13 x
13 x 512
   96 Couldn't find activation function mish, going with
ReLU
conv     512   1 x 1 / 1     13 x  13 x 512    ->     13 x  13 x
512   0.089 BFLOPs
   97 Couldn't find activation function mish, going with
ReLU
conv     512   3 x 3 / 1     13 x  13 x 512    ->     13 x  13 x
512   0.797 BFLOPs
   98 res    95                        13 x  13 x 512    ->     13 x
13 x 512
```

```
   99 Couldn't find activation function mish, going with
ReLU
conv    512  1 x 1 / 1    13 x  13 x 512    ->    13 x  13 x
512  0.089 BFLOPs
  100 Couldn't find activation function mish, going with
ReLU
conv    512  3 x 3 / 1    13 x  13 x 512    ->    13 x  13 x
512  0.797 BFLOPs
  101 res    98                 13 x  13 x 512    ->    13 x
13 x 512
  102 Couldn't find activation function mish, going with
ReLU
conv    512  1 x 1 / 1    13 x  13 x 512    ->    13 x  13 x
512  0.089 BFLOPs
  103 route  102 87
  104 Couldn't find activation function mish, going with
ReLU
conv   1024  1 x 1 / 1    13 x  13 x1024    ->    13 x  13
x1024  0.354 BFLOPs
  105 conv    512  1 x 1 / 1    13 x  13 x1024    ->    13 x
13 x 512  0.177 BFLOPs
  106 conv   1024  3 x 3 / 1    13 x  13 x 512    ->    13 x
13 x1024  1.595 BFLOPs
  107 conv    512  1 x 1 / 1    13 x  13 x1024    ->    13 x
13 x 512  0.177 BFLOPs
  108 max          5 x 5 / 1    13 x  13 x 512    ->    13 x
13 x 512
  109 route  107
  110 max          9 x 9 / 1    13 x  13 x 512    ->    13 x
13 x 512
  111 route  107
  112 max         13 x 13 / 1    13 x  13 x 512    ->     13
x  13 x 512
  113 route  112 110 108 107
  114 conv    512  1 x 1 / 1    13 x  13 x2048    ->    13 x
13 x 512  0.354 BFLOPs
  115 conv   1024  3 x 3 / 1    13 x  13 x 512    ->    13 x
13 x1024  1.595 BFLOPs
  116 conv    512  1 x 1 / 1    13 x  13 x1024    ->    13 x
13 x 512  0.177 BFLOPs
  117 conv    256  1 x 1 / 1    13 x  13 x 512    ->    13 x
```

```
13 x 256  0.044 BFLOPs
  118 upsample              2x      13 x  13 x 256    ->     26 x
26 x 256
  119 route  85
  120 conv    256  1 x 1 / 1    26 x  26 x 512    ->     26 x
26 x 256  0.177 BFLOPs
  121 route  120 118
  122 conv    256  1 x 1 / 1    26 x  26 x 512    ->     26 x
26 x 256  0.177 BFLOPs
  123 conv    512  3 x 3 / 1    26 x  26 x 256    ->     26 x
26 x 512  1.595 BFLOPs
  124 conv    256  1 x 1 / 1    26 x  26 x 512    ->     26 x
26 x 256  0.177 BFLOPs
  125 conv    512  3 x 3 / 1    26 x  26 x 256    ->     26 x
26 x 512  1.595 BFLOPs
  126 conv    256  1 x 1 / 1    26 x  26 x 512    ->     26 x
26 x 256  0.177 BFLOPs
  127 conv    128  1 x 1 / 1    26 x  26 x 256    ->     26 x
26 x 128  0.044 BFLOPs
  128 upsample              2x      26 x  26 x 128    ->     52 x
52 x 128
  129 route  54
  130 conv    128  1 x 1 / 1    52 x  52 x 256    ->     52 x
52 x 128  0.177 BFLOPs
  131 route  130 128
  132 conv    128  1 x 1 / 1    52 x  52 x 256    ->     52 x
52 x 128  0.177 BFLOPs
  133 conv    256  3 x 3 / 1    52 x  52 x 128    ->     52 x
52 x 256  1.595 BFLOPs
  134 conv    128  1 x 1 / 1    52 x  52 x 256    ->     52 x
52 x 128  0.177 BFLOPs
  135 conv    256  3 x 3 / 1    52 x  52 x 128    ->     52 x
52 x 256  1.595 BFLOPs
  136 conv    128  1 x 1 / 1    52 x  52 x 256    ->     52 x
52 x 128  0.177 BFLOPs
  137 conv    256  3 x 3 / 1    52 x  52 x 128    ->     52 x
52 x 256  1.595 BFLOPs
  138 conv     21  1 x 1 / 1    52 x  52 x 256    ->     52 x
52 x  21  0.029 BFLOPs
  139 yolo
Unused field: 'scale_x_y = 1.2'
```

```
Unused field: 'iou_thresh = 0.213'
Unused field: 'cls_normalizer = 1.0'
Unused field: 'iou_normalizer = 0.07'
Unused field: 'iou_loss = ciou'
Unused field: 'nms_kind = greedynms'
Unused field: 'beta_nms = 0.6'
Unused field: 'max_delta = 5'
  140 route  136
  141 conv    256  3 x 3 / 2    52 x  52 x 128   ->    26 x
26 x 256  0.399 BFLOPs
  142 route  141 126
  143 conv    256  1 x 1 / 1    26 x  26 x 512   ->    26 x
26 x 256  0.177 BFLOPs
  144 conv    512  3 x 3 / 1    26 x  26 x 256   ->    26 x
26 x 512  1.595 BFLOPs
  145 conv    256  1 x 1 / 1    26 x  26 x 512   ->    26 x
26 x 256  0.177 BFLOPs
  146 conv    512  3 x 3 / 1    26 x  26 x 256   ->    26 x
26 x 512  1.595 BFLOPs
  147 conv    256  1 x 1 / 1    26 x  26 x 512   ->    26 x
26 x 256  0.177 BFLOPs
  148 conv    512  3 x 3 / 1    26 x  26 x 256   ->    26 x
26 x 512  1.595 BFLOPs
  149 conv     21  1 x 1 / 1    26 x  26 x 512   ->    26 x
26 x  21  0.015 BFLOPs
  150 yolo
Unused field: 'scale_x_y = 1.1'
Unused field: 'iou_thresh = 0.213'
Unused field: 'cls_normalizer = 1.0'
Unused field: 'iou_normalizer = 0.07'
Unused field: 'iou_loss = ciou'
Unused field: 'nms_kind = greedynms'
Unused field: 'beta_nms = 0.6'
Unused field: 'max_delta = 5'
  151 route  147
  152 conv    512  3 x 3 / 2    26 x  26 x 256   ->    13 x
13 x 512  0.399 BFLOPs
  153 route  152 116
  154 conv    512  1 x 1 / 1    13 x  13 x1024   ->    13 x
13 x 512  0.177 BFLOPs
  155 conv   1024  3 x 3 / 1    13 x  13 x 512   ->    13 x
```

```
13 x1024   1.595 BFLOPs
  156 conv     512  1 x 1 / 1    13 x  13 x1024    ->    13 x
13 x 512   0.177 BFLOPs
  157 conv    1024  3 x 3 / 1    13 x  13 x 512    ->    13 x
13 x1024   1.595 BFLOPs
  158 conv     512  1 x 1 / 1    13 x  13 x1024    ->    13 x
13 x 512   0.177 BFLOPs
  159 conv    1024  3 x 3 / 1    13 x  13 x 512    ->    13 x
13 x1024   1.595 BFLOPs
  160 conv      21  1 x 1 / 1    13 x  13 x1024    ->    13 x
13 x  21   0.007 BFLOPs
  161 yolo
Unused field: 'scale_x_y = 1.05'
Unused field: 'iou_thresh = 0.213'
Unused field: 'cls_normalizer = 1.0'
Unused field: 'iou_normalizer = 0.07'
Unused field: 'iou_loss = ciou'
Unused field: 'nms_kind = greedynms'
Unused field: 'beta_nms = 0.6'
Unused field: 'max_delta = 5'
Loading weights from yolov4.conv.137...Done!
Learning Rate: 0.001, Momentum: 0.949, Decay: 0.0005
Resizing
608
Couldn't open file: data/obj/
labelsImage_jpg.rf.65322d152e11c328217e630364f8e5f5.txt
```