

```

#Improved-YOLOv5 code
# Parameters
nc: 3 # number of classes
depth_multiple: 0.33 # model depth multiple
width_multiple: 0.50 # layer channel multiple
anchors:
  - [6,12, 9,18, 12,30] # P3/8
  - [16,45, 22,60, 24,38] # P4/16
  - [34,71, 53,96, 107,145] # P5/32

# YOLOv5 backbone
backbone:
  # [from, number, module, args]
  [[-1, 1, Conv, [64, 6, 2, 2]], # 0
   [-1, 1, Conv, [128, 3, 2]], # 1
   [-1, 3, C3, [128]], # 2
   [-1, 1, Conv, [256, 3, 2]], # 3
   [-1, 6, C3, [256]], # 4
   [-1, 1, Conv, [512, 3, 2]], # 5
   [-1, 9, C3, [512]], # 6
   [-1, 1, Conv, [1024, 3, 2]], # 7
   [-1, 3, C3, [1024]], # 8
   [-1, 1, SPPF, [1024, 5]], # 9
   [-1, 1, CBAM, [1024]], # 10
  ]
# YOLOv5 head
head:
  [[-1, 1, GhostConv, [512, 1, 1]], # 11
   [-1, 1, nn.Upsample, [None, 2, 'nearest']], # 12
   [6, 1, CBAM, [512]], # 13
   [[-1, 12], 1, Concat, [1]], # cat backbone 14
   [-1, 3, C3Ghost, [512, False]], # 15

   [-1, 1, GhostConv, [256, 1, 1]], # 16
   [-1, 1, nn.Upsample, [None, 2, 'nearest']], # 17
   [4, 1, CBAM, [256]], # 18
   [[-1, 17], 1, Concat, [1]], # cat backbone P3 19
   [[-1, 4], 1, Concat, [1]],
   [-1, 3, C3Ghost, [256, False]], # 20 (P3/8-small)

   [-1, 1, GhostConv, [256, 3, 2]], # 21
   [[-1, 15], 1, Concat, [1]], # cat head P4 22
   [[-1, 6], 1, Concat, [1]],
   [-1, 3, C3Ghost, [512, False]], # 23 (P4/16-medium)

```

```
[-1, 1, GhostConv, [512, 3, 2]], #24
[[-1, 11], 1, Concat, [1]], # cat head P5 25
[[-1, 8], 1, Concat, [1]],
[-1, 3, C3Ghost, [1024, False]], # 26 (P5/32-large)

[[21, 25, 29], 1, Detect, [nc, anchors]], # Detect(P3, P4, P5)
]
```