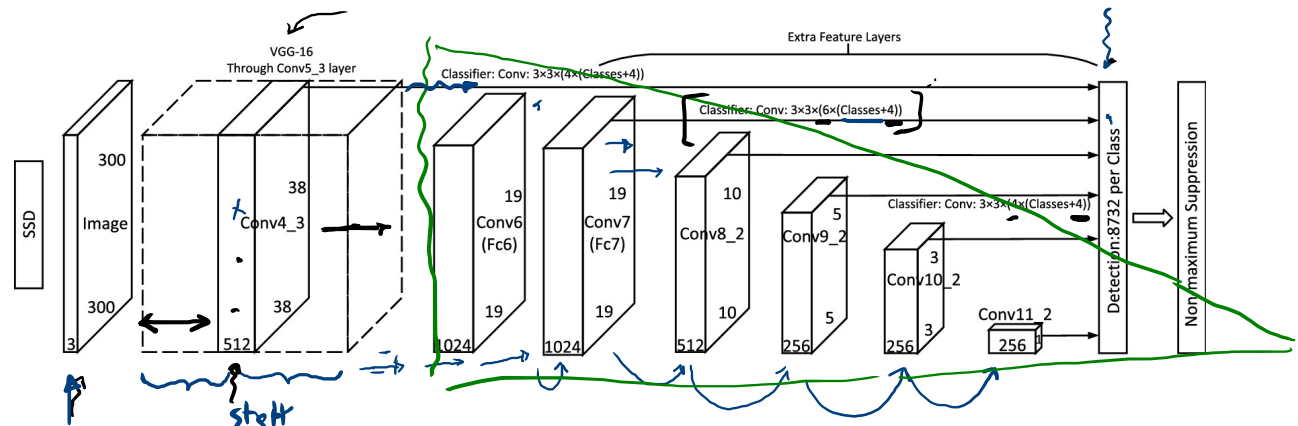
SSD

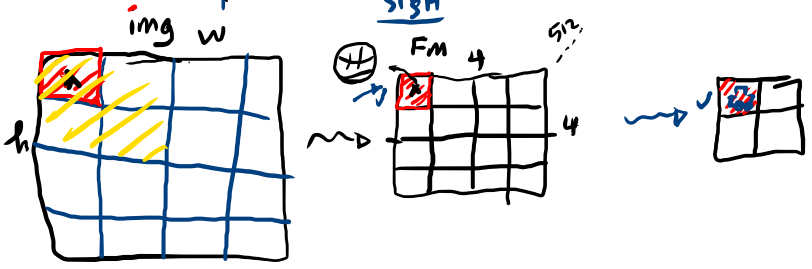
a Single shot Detector and Single shot multibox Detector.

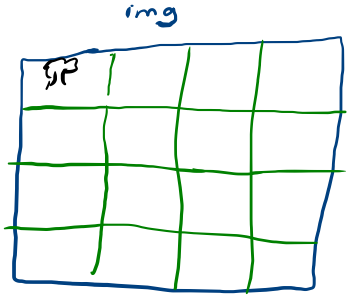
Low resolution → 300 x 300
512 x 512



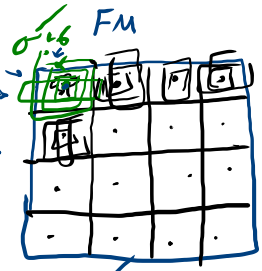
Cone

stage 4





conv



in 1 cell → 6 box → 4 coordinates. $(\Delta c_x, \Delta c_y, \Delta w, \Delta h)$

→ $[c_1, c_2, c_3, \dots, c_n, c_b]$

number of classes.

$4 \times 4 \times 6$

96

$w \times H \times 6$

$w \times H \times 4$

$(w\text{-}Fm \times H\text{-}Fm) \times 6 \times [\Delta c_x, \Delta c_y, \Delta w, \Delta H, c_1, \dots, c_N, c_b]$

4

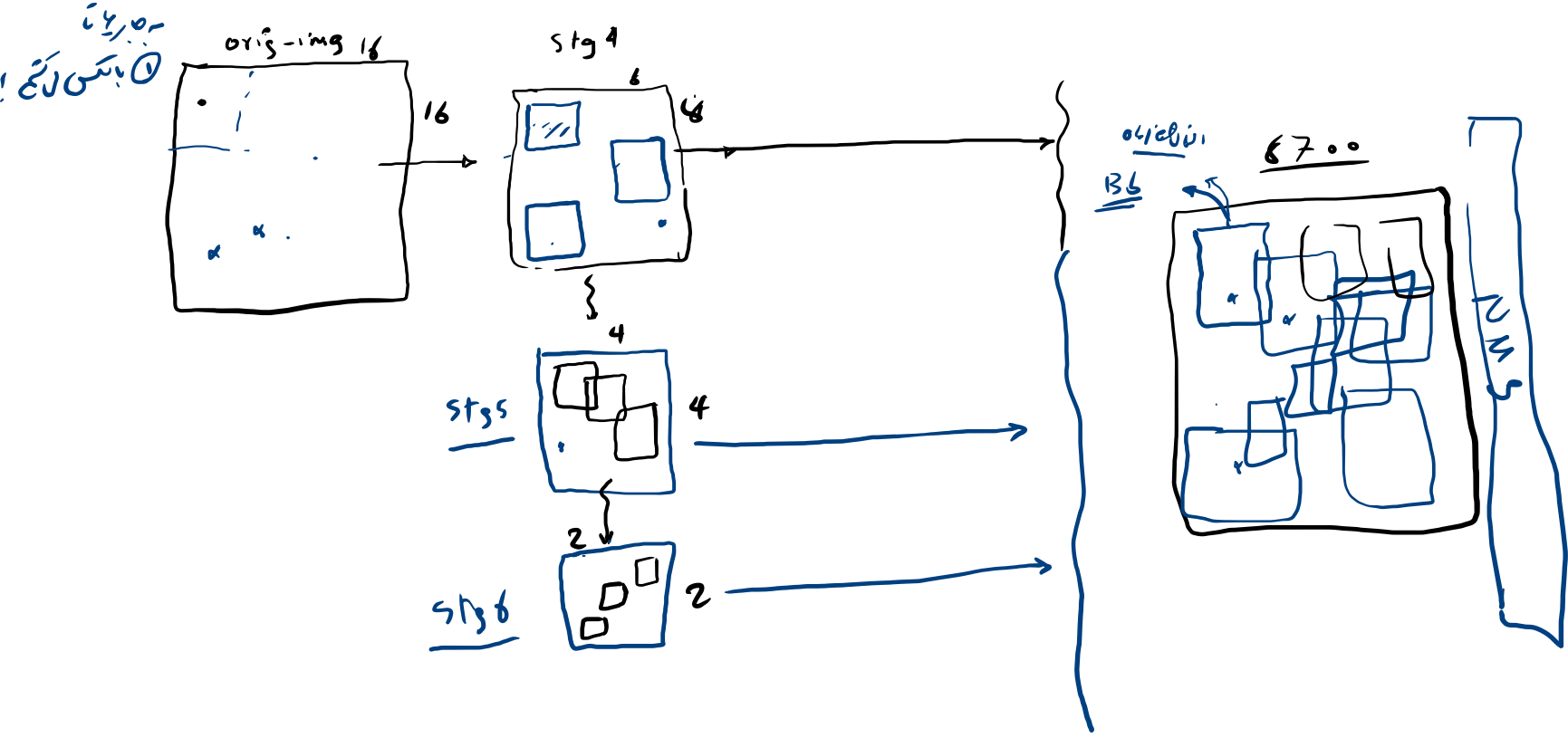
تعداد کلاس ها!

+1

برای هر سلول $[\Delta c_x, \Delta c_y, \Delta w, \Delta H, c_1, c_2, \dots, c_N, c_b]$

در هر stage

system	mAP	FPS	Number of boxes	Input Resolution
Faster RCNN VGG(16)	73,2	7	~ 6000	~ 1000 x 600
yolo	63,4	45	~ 98	~ 448 x 448
SSD300	77,2	46	~ 8732	~ 300 x 300
SSD 512	79,8	19	~ 24564	~ 512 x 512



orig-img 16
16
stg 4
6
4
4
stg5
4
2
stg6
2
6700

The End

la fine