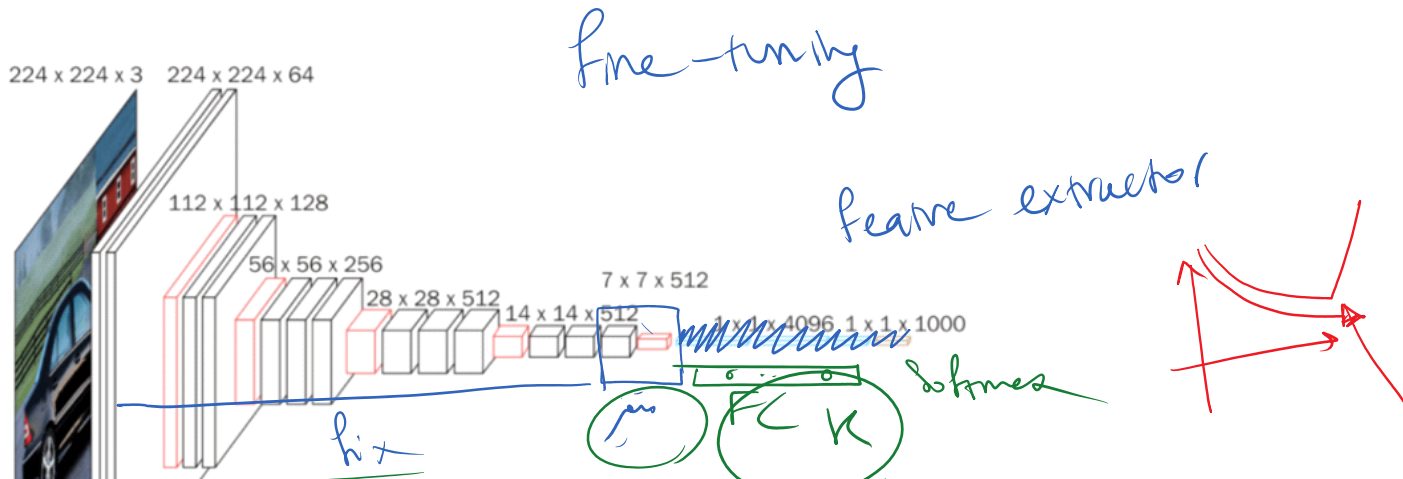
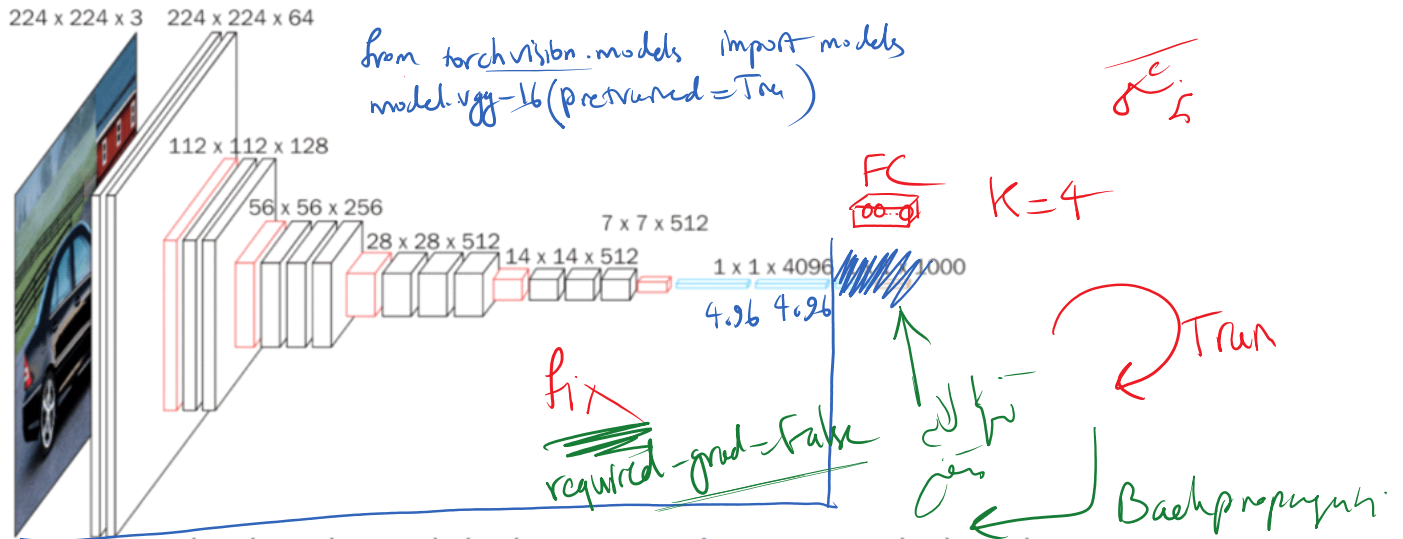
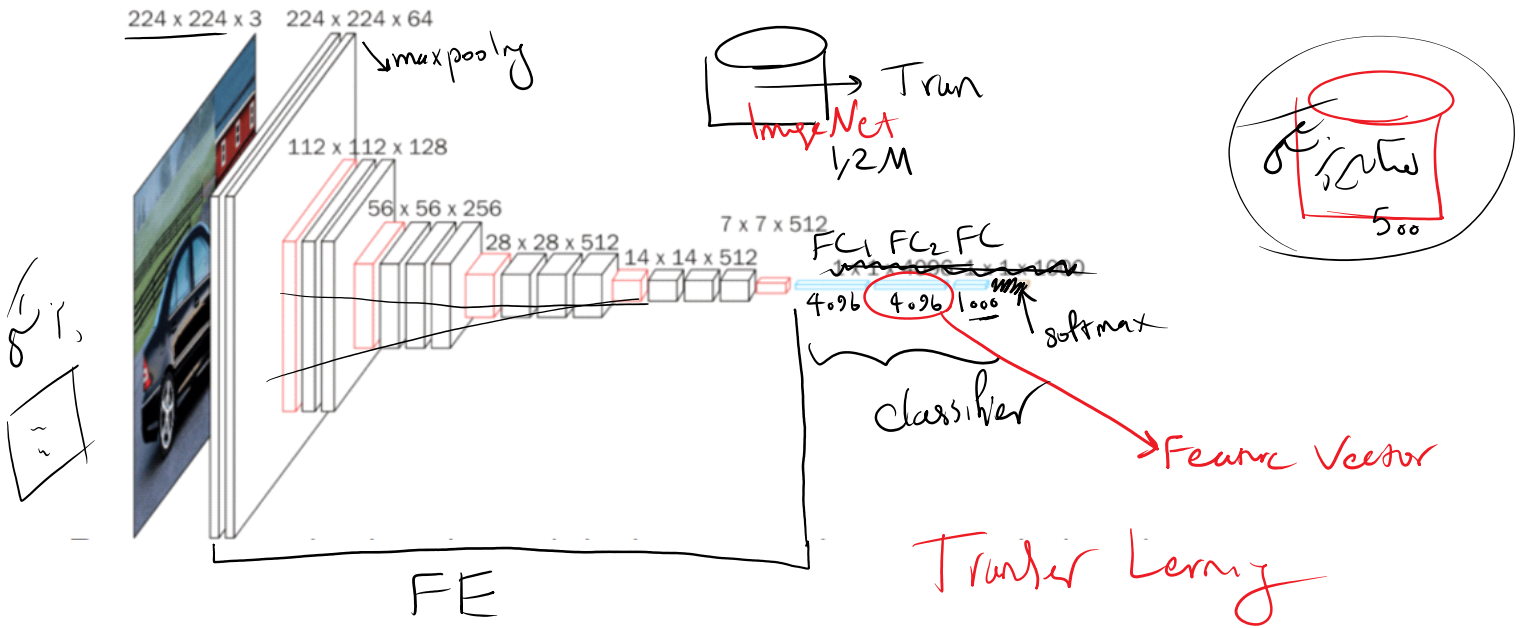


A

Saturday, June 4, 2022 6:20 PM

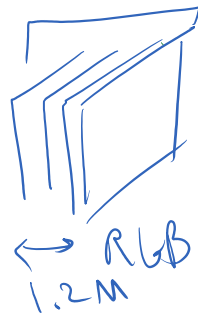
# AlexNet (2012) VGG-16 (2014)





fix

$\mu$   $\sigma$   $FC$   $K$



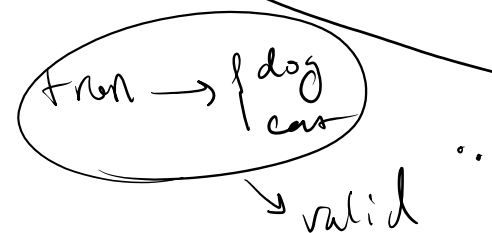
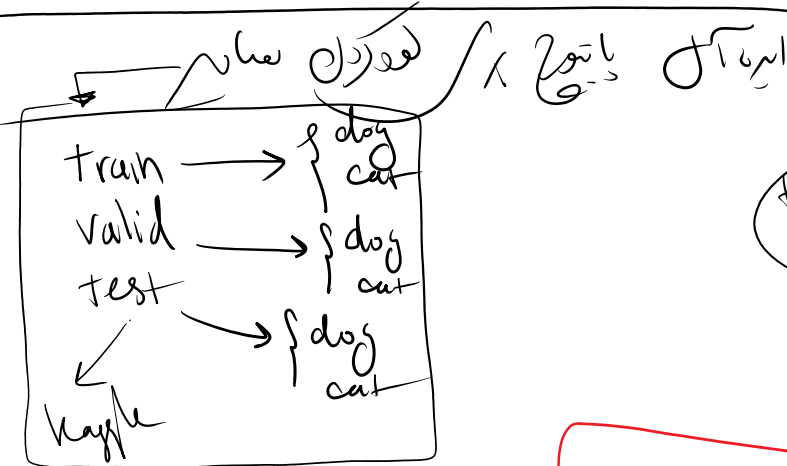
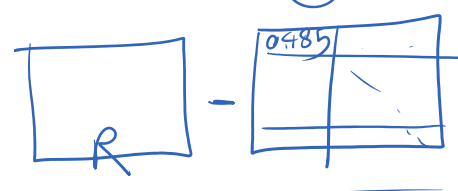
$R$  mean = 0.485

std = 0.229

$H \times W \times 3$   $3 \times 1$   
 $X \rightarrow (0, 0, 0)$

std  $(0, 0, 0)$

Broadcasting



Dataset

Dataloader

label, indices ops

dataset [0]   
 --get-item--

Sequential Sampler

iterator   
 batch

wrap

list = [0, ..., 1.6k]

0, ..., Ndata = 1.6k

[500, 2000]

shuffle

sampler

sampler

batch-size=3

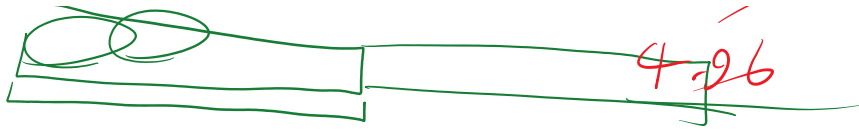
0, 10, 20, 30,

0-10 20-

custom indices

sampler = Sequential(range(len(dataset)))





0, 1, 2, 3, 4, ...

0, 1, ...

4.26 ~~MOD~~ demand [5]

10k  
demand [10k]

1	2
3	4

1	0	2	0
0	0	0	0
3	0	4	0
0	0	0	0

Bed of nails

OK, In case nearest neighbour  
bicubic  
cubic spline


Transposed Con