Exospe fila extlogiq estimu  $32\times32$  pixels be xonfiaziký avanapisoras. RGD. Fila zur rafivofinoù zous be 5 kazupapies bas diverai benediktuko divado pe ta efin enineda: CONV (8 pitzpa, F=6, S=2, P=1), POOL (F=3, S=2), FC (32), softmax (5). Ynologiste zou apidhio napafierpur zou diktioù.

Input:  $32 \times 32 \times 37$  rgb

Towca unologifu to # layers be kide good.

Lin=32, Lout =  $\frac{\text{Lin-F} + 2.P}{S} + L = \frac{32-6+2}{2} + L = 15$  (Conv)

Apa letà la conv. filters naipler roueis 15×15×8

Tipa Lin=15, Lout=  $\frac{\text{Lin-F}}{\text{S}} + 1 = \frac{15-3}{2} + 1 = 7$  (POOL)

Apa però zo pooling accipre carcis 7x7x8

Flattening ~ 7x 7x8 = 392

Baser avrivs:

Input: 0 parameters  $\frac{1}{5}$  bias  $\frac{1}{5}$  bias  $\frac{1}{5}$  conv:  $\frac{6\times6\times3}{5}$  =  $\frac{108}{5}$ ,  $\frac{1}{5}$  =  $\frac{109}{5}$  =  $\frac{8}{5}$  parameters

POOL. O parameters

Fc: (392+1) ×32 = 12,576 parameters

Softwax: (32+1)×5 = 165 parameters

Inalici: 872+ 12.576+ 165 = 13.613 parometers