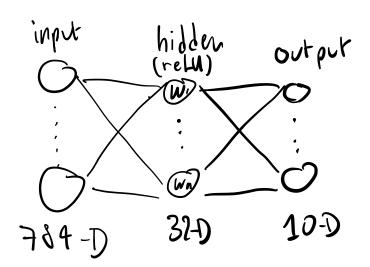
MLP



Number of parameters:

Input - Wolder: 784.32 = 25088

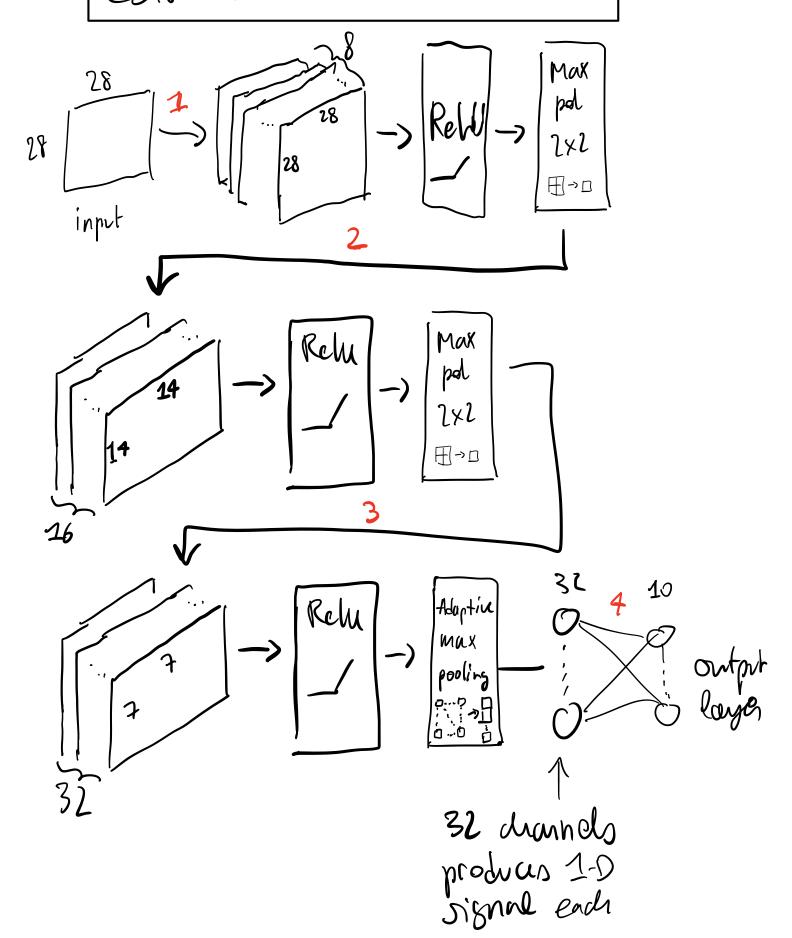
15+ layer Bors: 32 = 32

h: 1der - output: 32.10 = 320

out put Boids : 10

total: 25450

CONVOLUTIONAL NETWORK



parameters

for a simple convolutional layer

 $1: 8 \cdot (3.3.1+1) = 80$

Blos

2: 16.(3.3.8+1) = 1168

3: 32. (3.3.16+1) = 4640

4: 32.10 (fully connected) + 10 (Bias)

= 330

total # parameters = 6218

the number of parameters depends on how the layers are libred. each next layer channel will be connected to all precedent (input) channels. Each channels is represented by a kernel and 50 each element of each channel should must be connected to each elements of each elements of each input to channels be used planets of each input to channels.

as each went filter (one for each channel) must agnostic of patein translations.