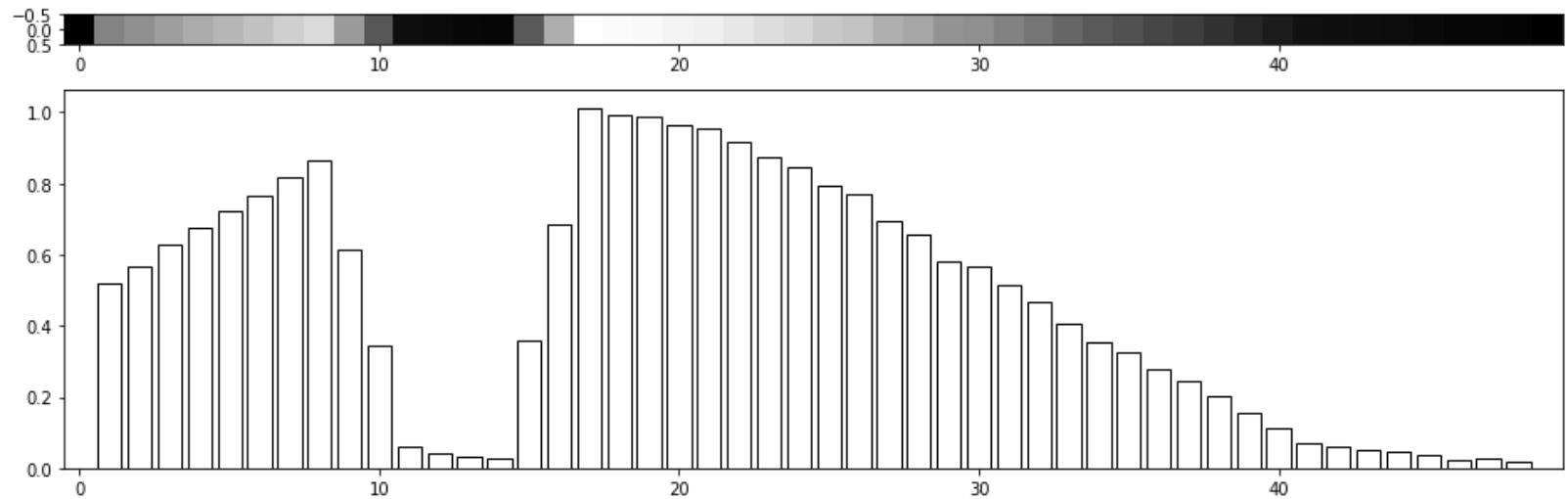
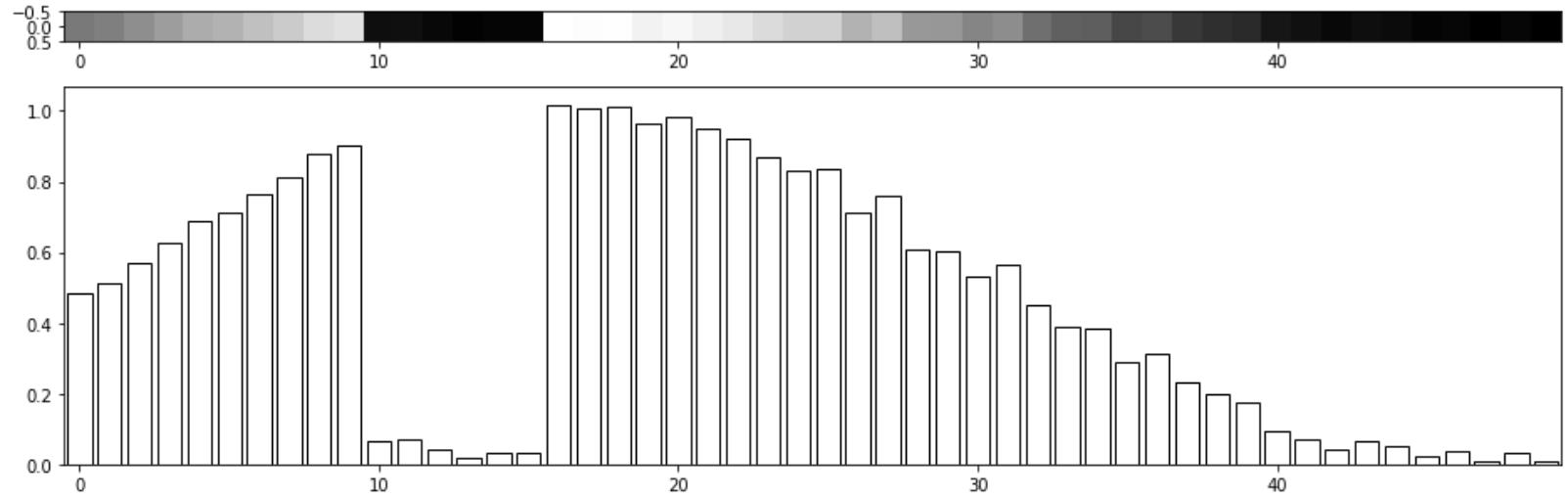


INTRODUCTION AUX RÉSEAUX DE NEURONES

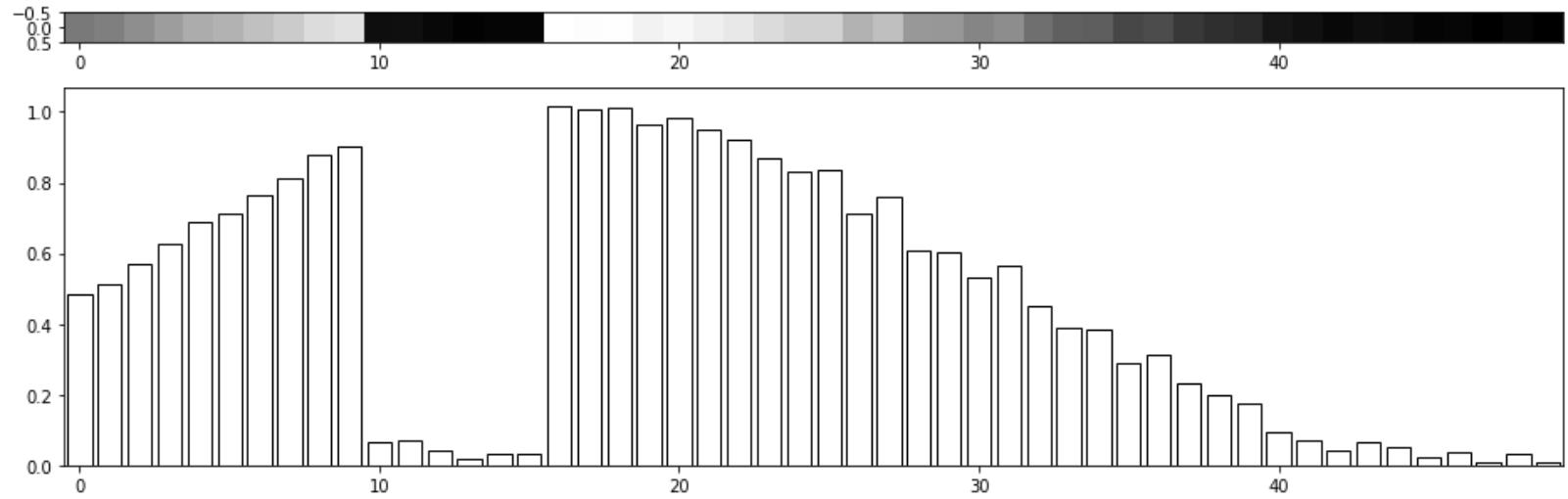
Réseaux de neurones convolutifs **[bis]**
(«CNN» : *Convolutional neural networks*)
Quelques illustrations en une dimension

Pascal Germain, 2018

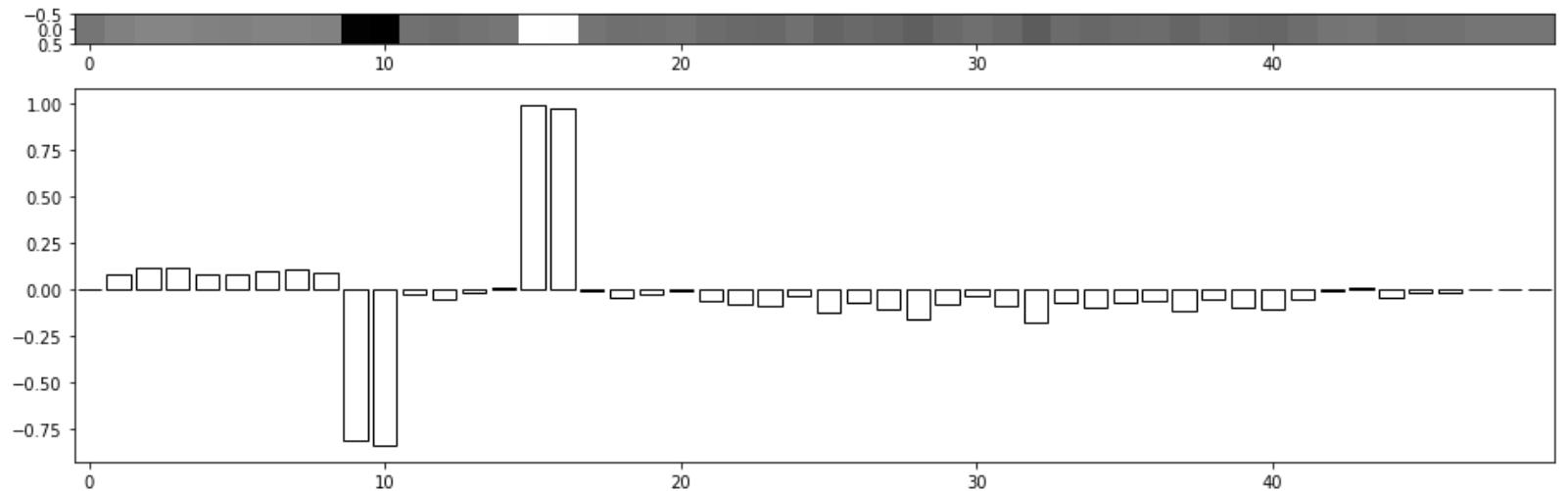
χ



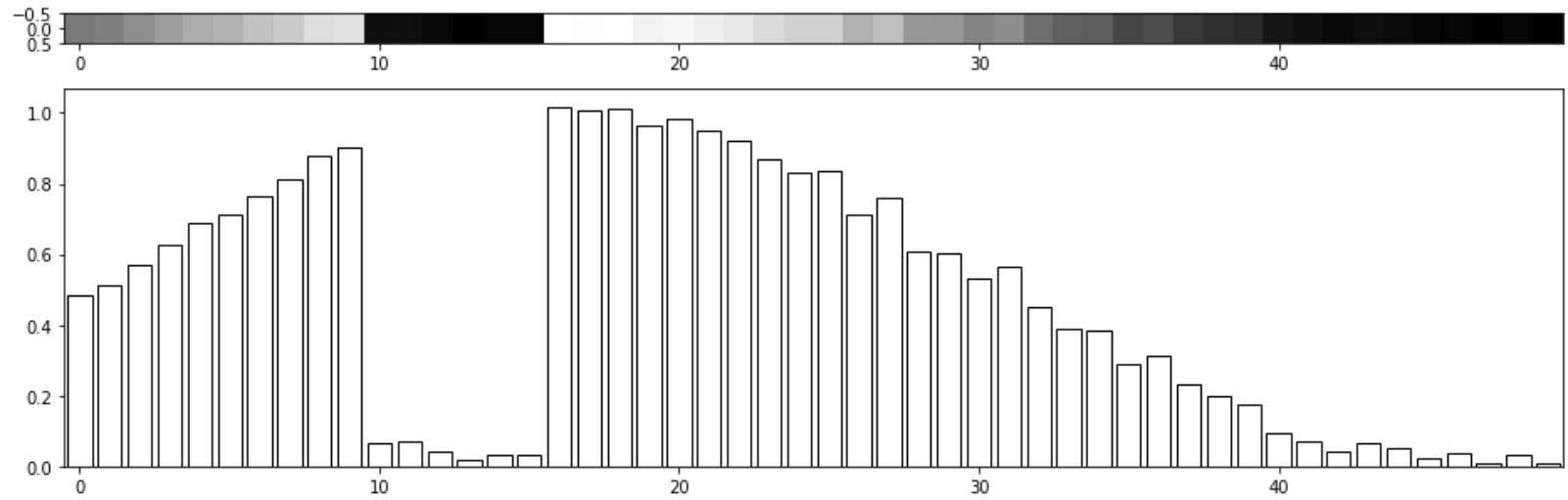
Filtre :
[1/3, 1/3, 1/3]

χ 

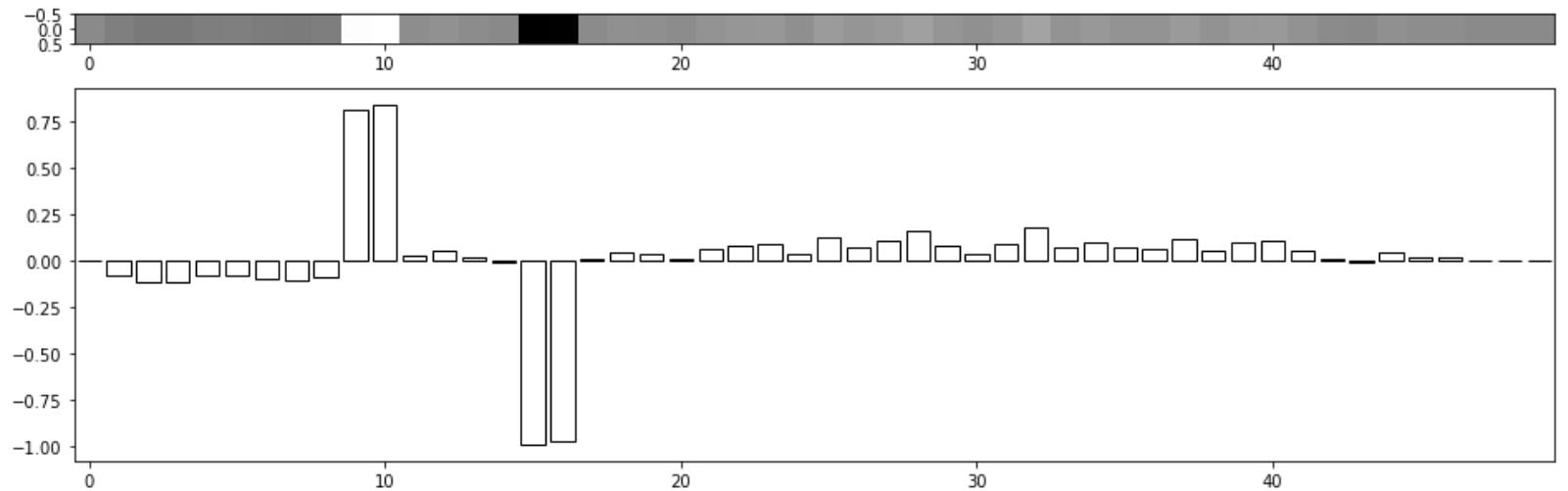
Filtre :
[-1, 0, 1]



χ

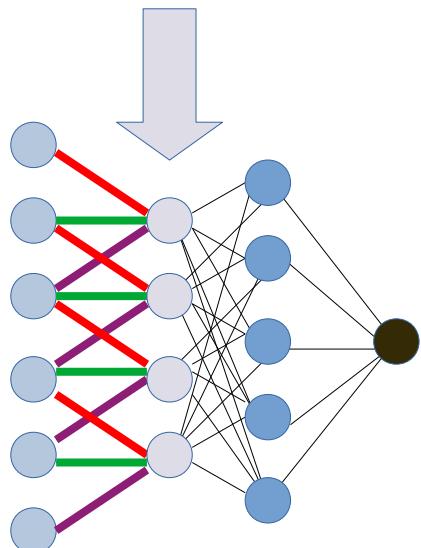


Filtre :
[1, 0, -1]

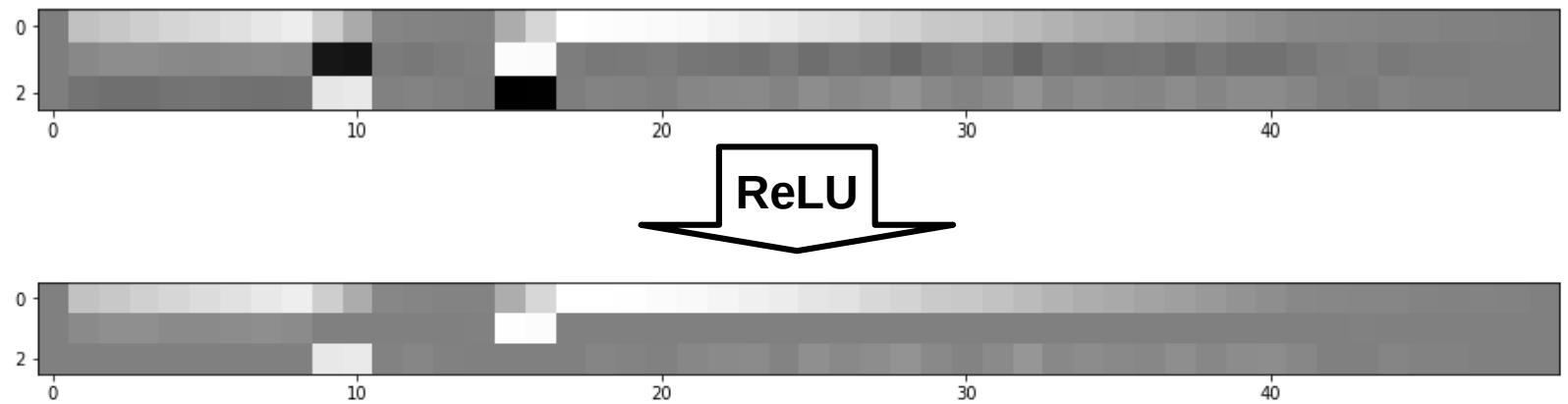
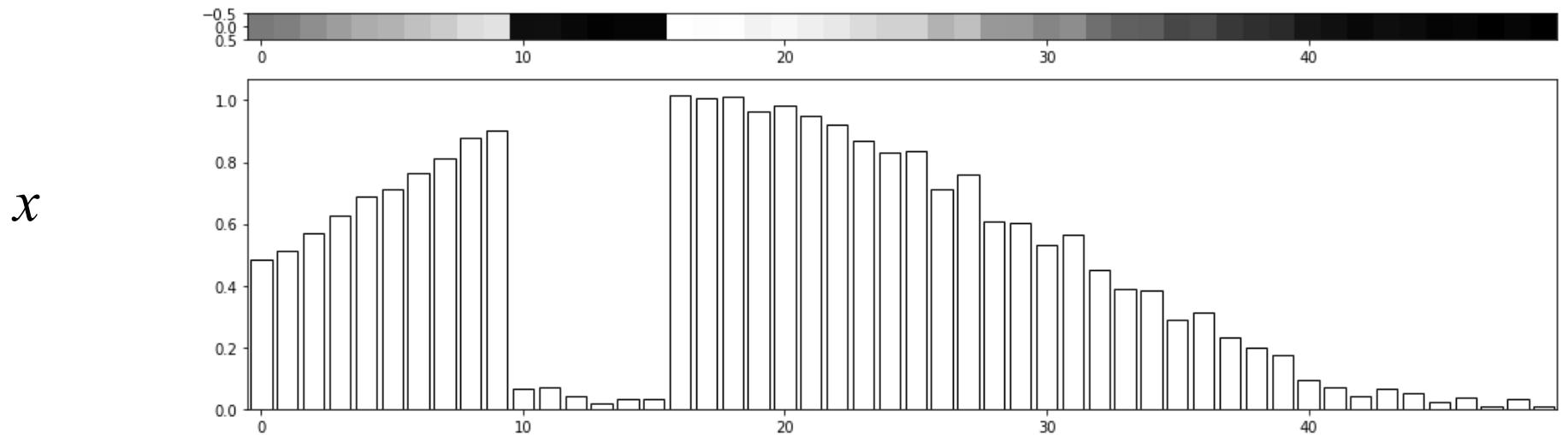


Couche de convolution

Filtre : [w_1 , w_2 , w_3]



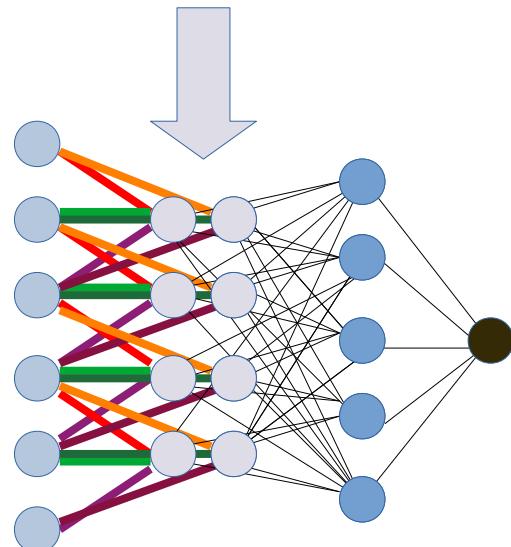
Couche
pleinement
connectée



Couche
de convolution

Filtre 1 : [w_{11} , w_{12} , w_{13}]

Filtre 2 : [w_{12} , w_{22} , w_{23}]



Couche
pleinement
connectée

