

Tratamiento de Señales

Version 2022-I

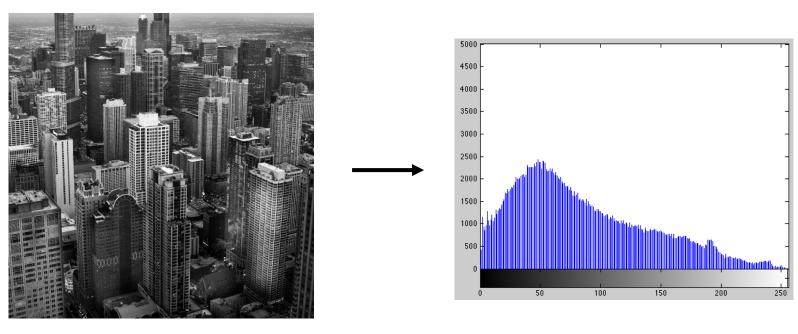
Histogramas

[Capítulo 3]

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Representation that gives the number of pixels of the image for each grayvalue.



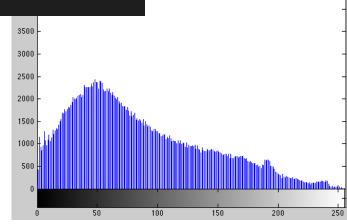
Representation image for each

X

def imhist(X):
(N,M) = X.shape
n = 256
h = np.zeros((256,))
for i in range(N):
 for j in range(M):
 x = X[i,j]
 h[x] = h[x]+1
plt.plot(range(n),h[0:n])
plt.show()

ixels of the



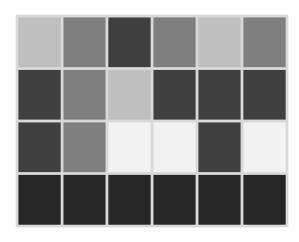


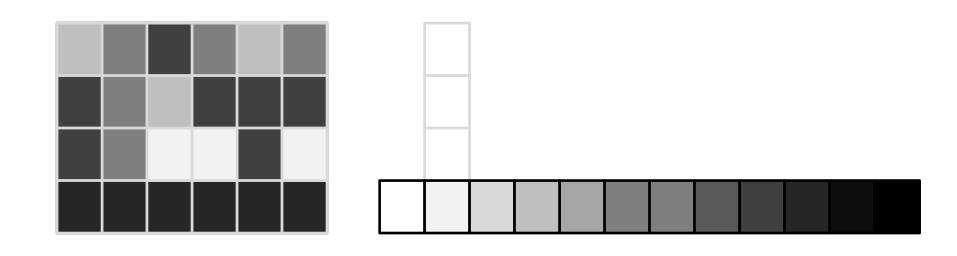
[IMAGE]

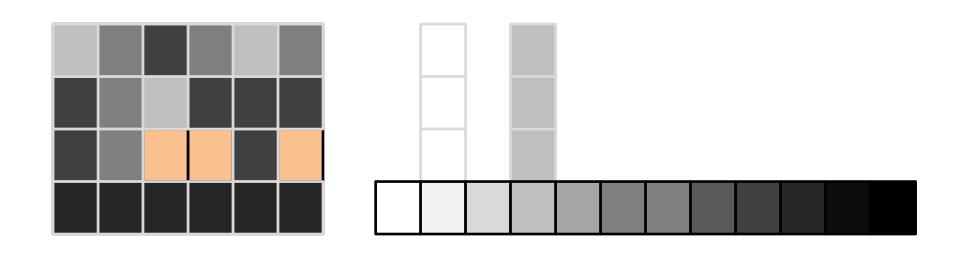
[HISTOGRAM]

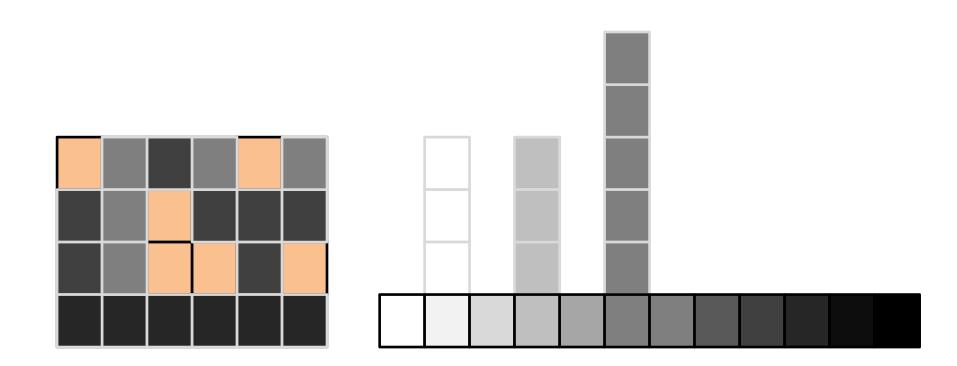
Example:

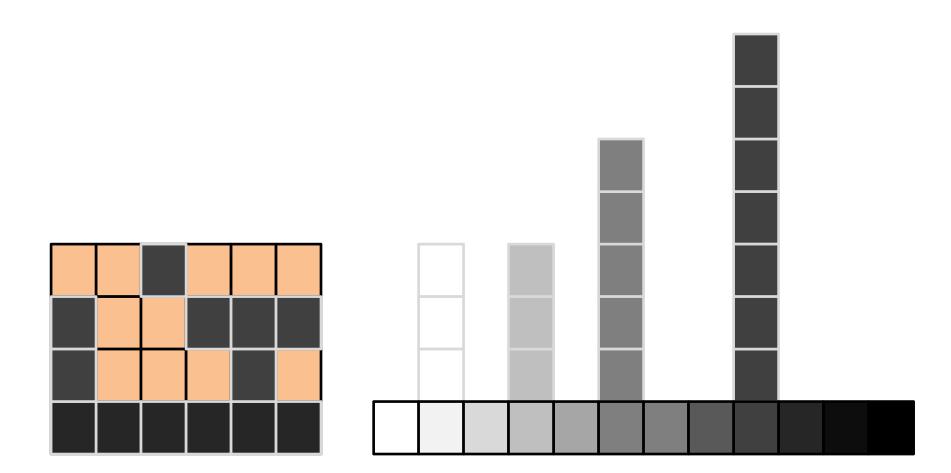
Image with 4x6 pixels and a grayscale with 12 grayvalues.

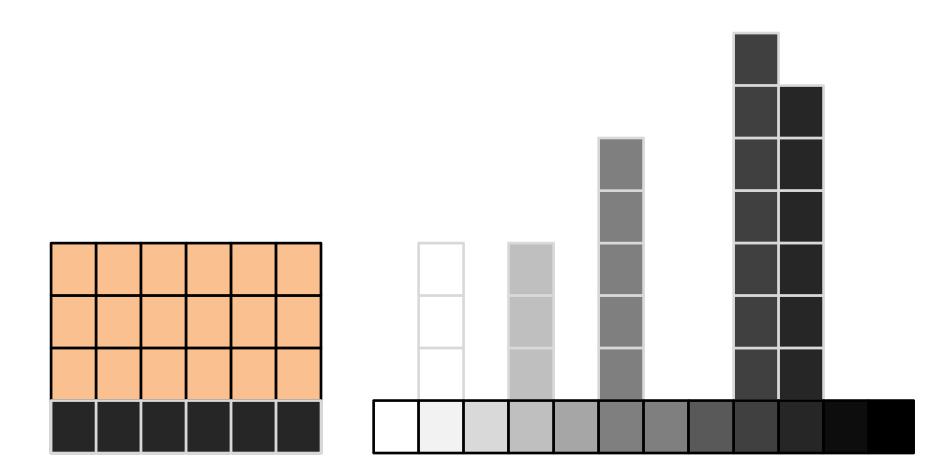


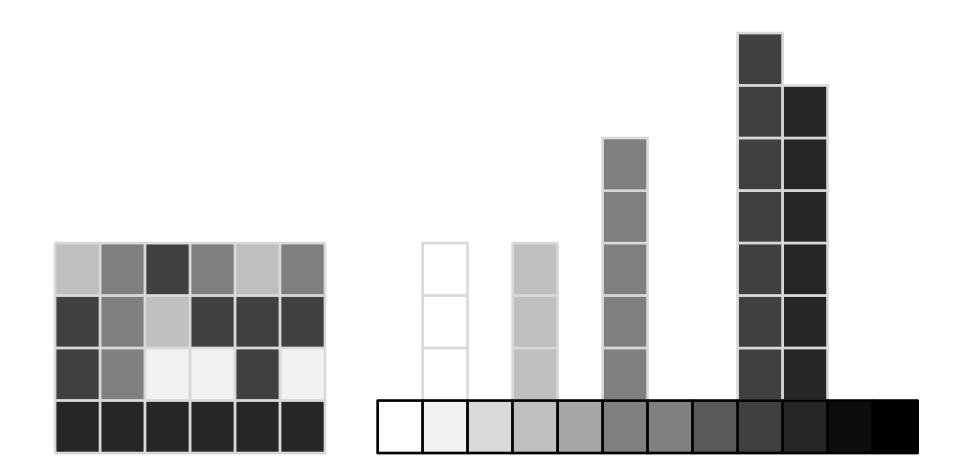


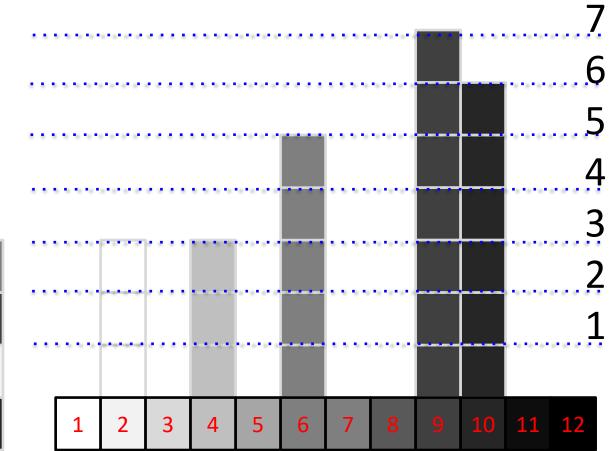


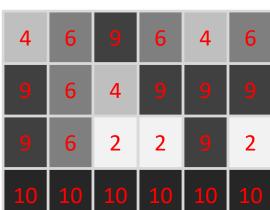




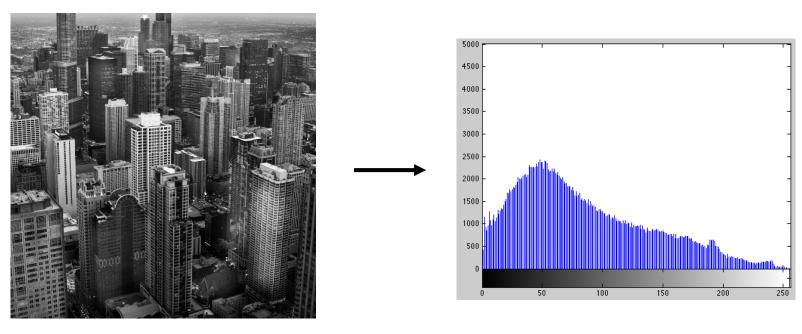




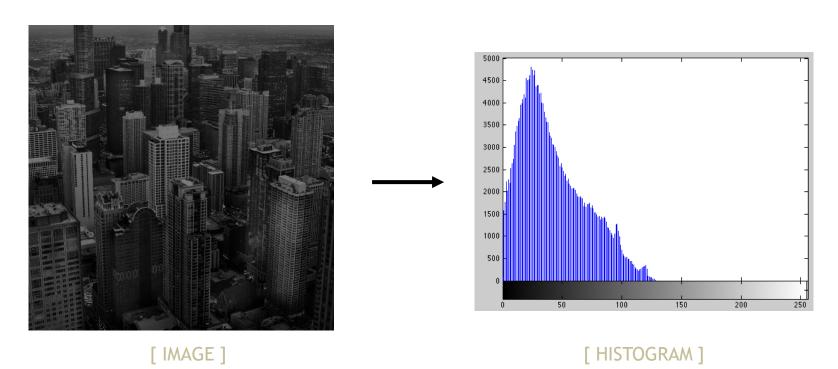




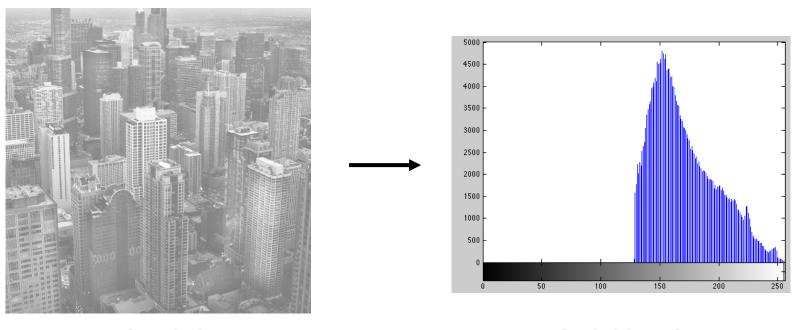
Representation that gives the number of pixels of the image for each grayvalue.



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