

Computer Science 375 Assignment 1

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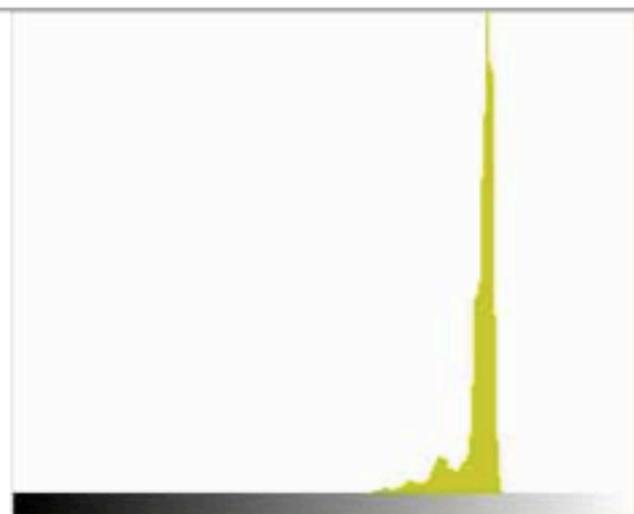
Coursework 1.2

The program part is a Microsoft Visual C++ project. After it is opened, it can be compiled and run by typing the "F5" key on the keyboard. Then, the specific values of the current pixel and window will be shown when the mouse is over the image.

Question 1.2(iv):

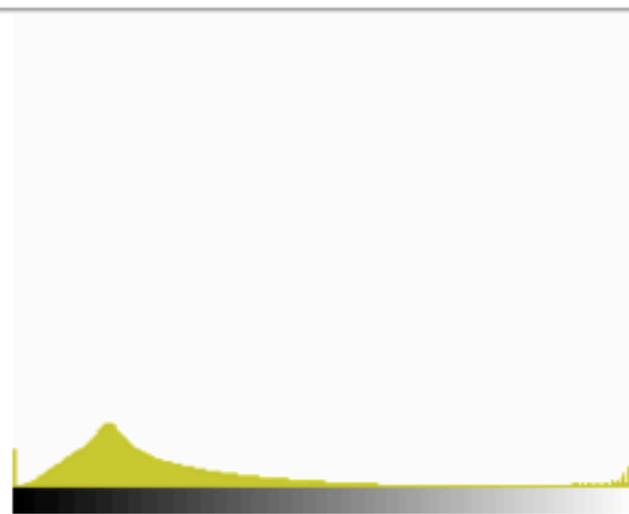
I define "homogeneous" is the intensities of the $n*n$ pixels in the window which are very close. The values of the pixels are very close to the mean value, such that the variance value of these pixels is low enough (for example 10), then these $n*n$ pixels are considered to be "homogeneous". Otherwise, they are "inhomogeneous".

If the values are concentrated on a small zone of the histograms, then the $n*n$ pixels in the window can be considered as "homogeneous". And if the values are distributed over a large zone of the histograms, then the $n*n$ pixels can be considered as "inhomogeneous".



Homogeneous

The values are concentrated on a small zone.



Inhomogeneous

The values are distributed over a large zone.