Date 14.2.4 computing the negative image In film-based photography a negative image was obtained when the film was developed, and then a Positive image was created from the negative. We can easyly Simulate this and compute a negative digital image. Suppose we have a grey-level image P=(Pi, 1) in with intensity Values in the interval [0,1]. Here intensity value of corregads to black and one corresponds to white. To obtain the negative image we Sust have to replace an intensity P by its' miror value 1-P 14.2.5 Increasing to contrast A common Problem with images is that the contrast often is not good enogh. This tipically means that alarge ProPortion of the grey values are concentrated in a rather small subintervall of [0:1]. The obvios Solution to this Problem is to Somehow spread obout values. This can be accompalised by applying a function f to the intensity volves be new intensity values are computed by the formula Pi, J = F (Pi, ))

for 1 and 1. If we choose f so that is derivative is large In the area where many intensity values are concentrated , we obstain the desired.