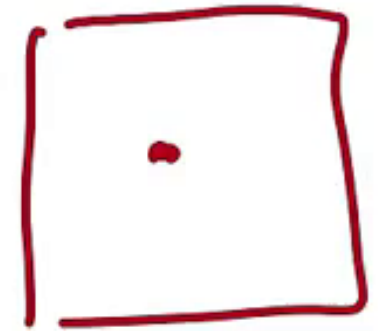
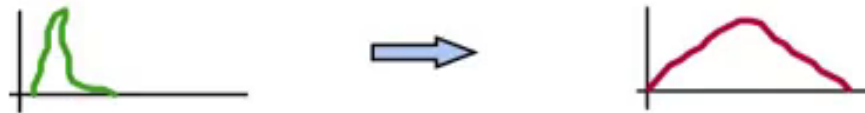


Contrast Enhancement

□ Contrast enhancement via image deformations

- Approach: Histogram modification



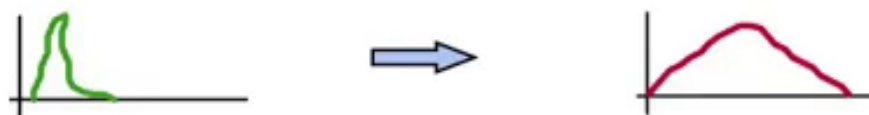
$$\bigcirc \quad \underline{\underline{=}} \quad \frac{\partial I(x,y)}{\partial t} = I(x,y) - (\# \text{pixels of value } \geq I(x,y))$$

●

Contrast Enhancement

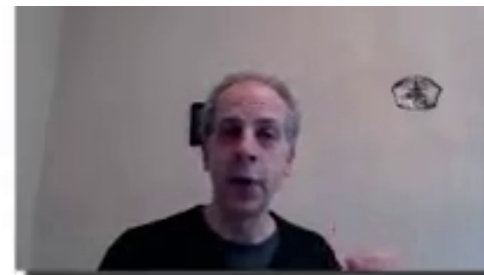
□ Contrast enhancement via image deformations

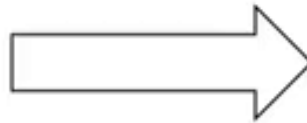
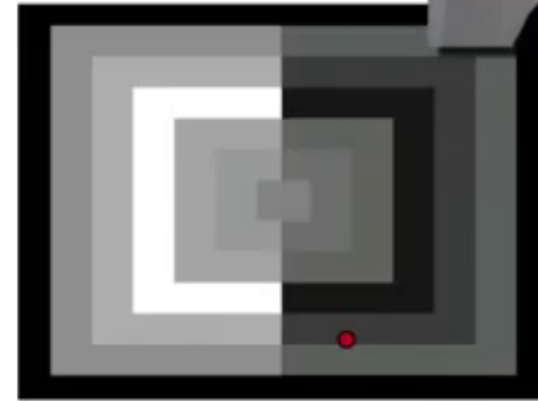
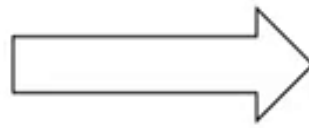
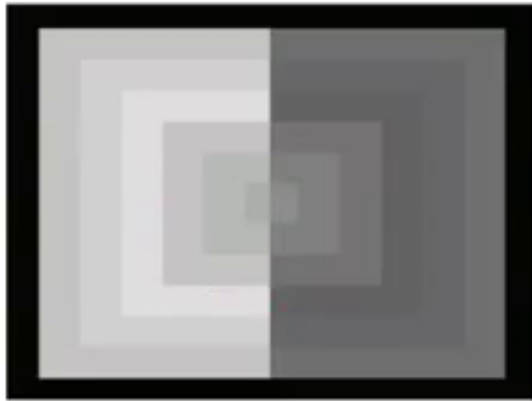
- Approach: Histogram modification



$$\frac{\partial I(x,y)}{\partial t} = I(x,y) - (\# \text{pixels of value } \geq I(x,y))$$

$$U(I) = \frac{1}{2} \int [I(\vec{x}) - 1/2]^2 d\vec{x} - \frac{1}{4} \iint [I(\vec{x}) - I(\vec{z})] d\vec{x} d\vec{z}$$





• Images courtesy JDE and IEEE