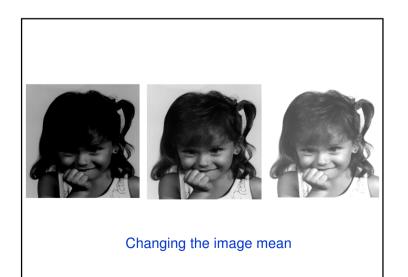
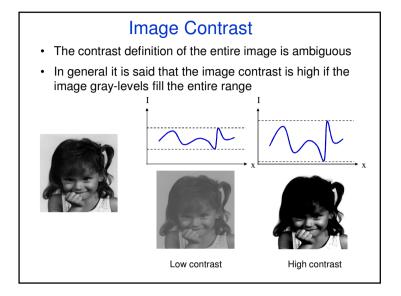


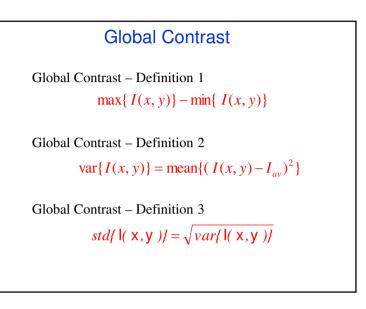
1

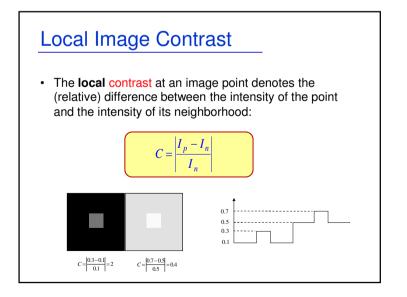
Image Characteristics

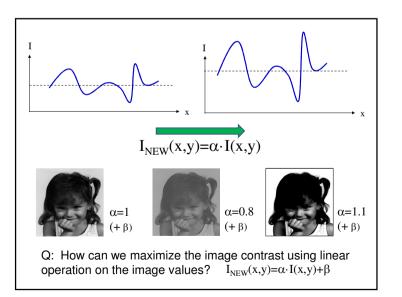


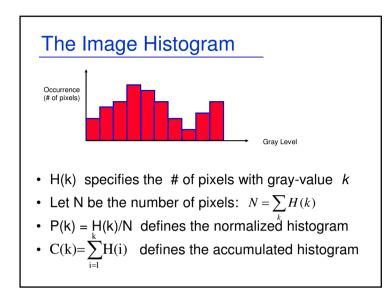


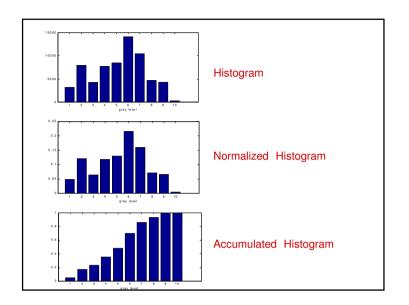


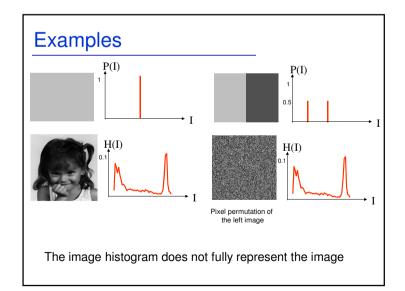


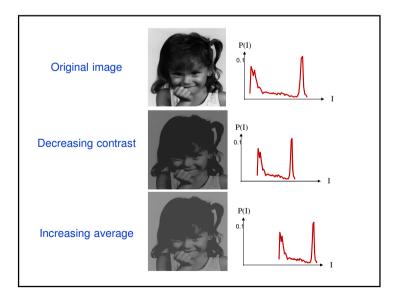


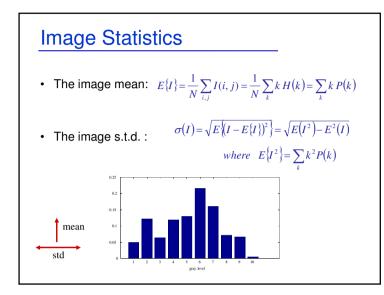


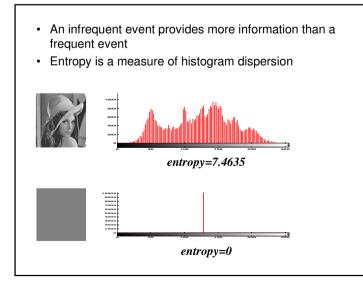


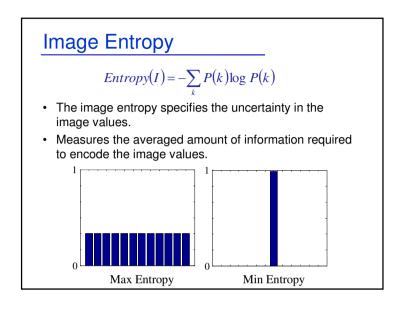


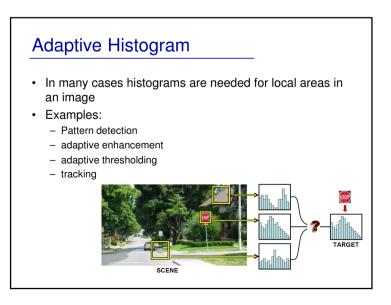


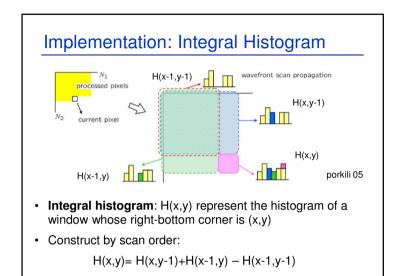


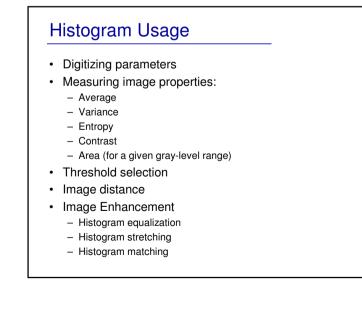


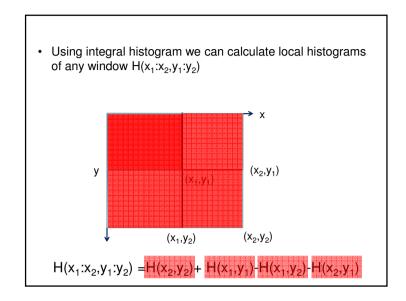








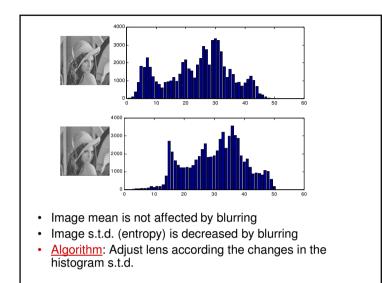


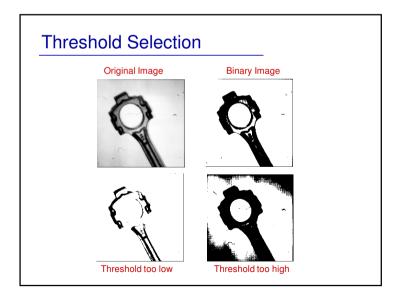


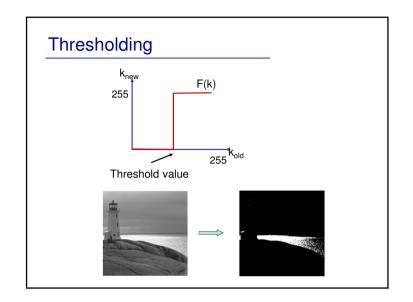
Example: Auto-Focus

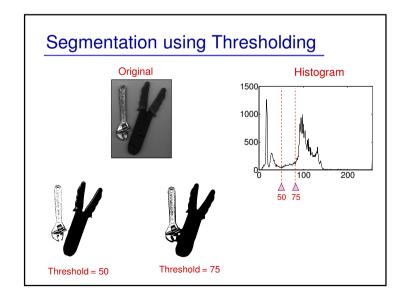
- In some optical equipment (e.g. slide projectors) inappropriate lens position creates a blurred ("out-offocus") image
- · We would like to automatically adjust the lens
- · How can we measure the amount of blurring?

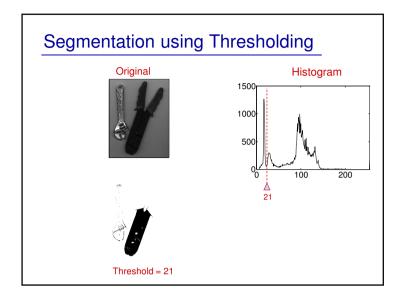






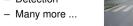


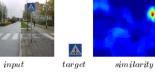




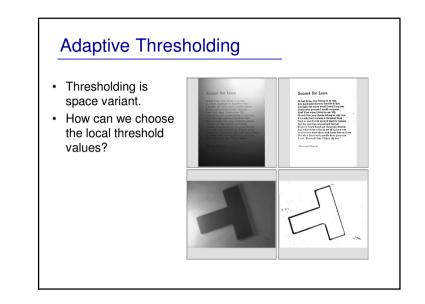
Histogram based image distance

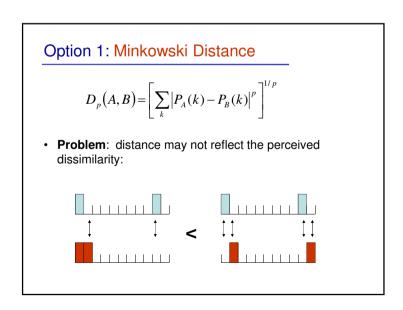
- **Problem**: Given two images A and B whose (normalized) histogram are P_A and P_B define the distance D(A,B) between the images.
- Example Usage:
 - Tracking
 - Image retrieval
 - Registration
 - Detection

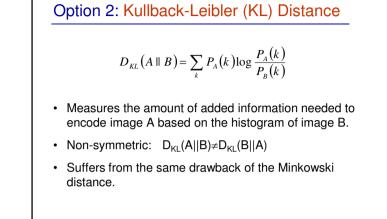


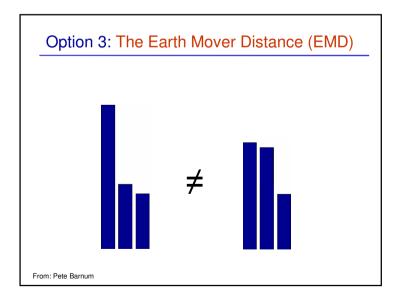


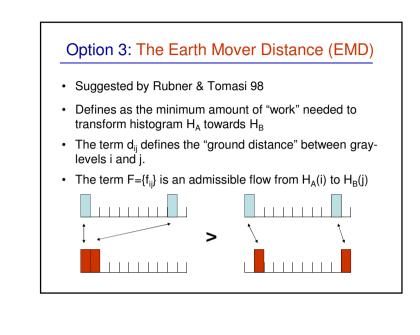
Porkili 05

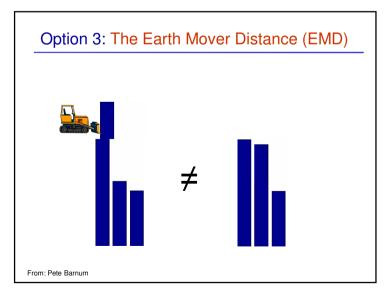


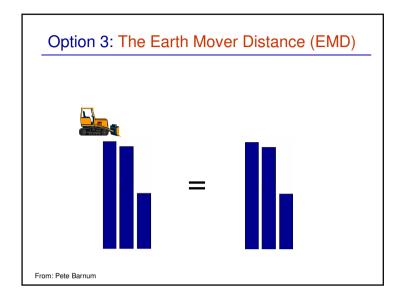


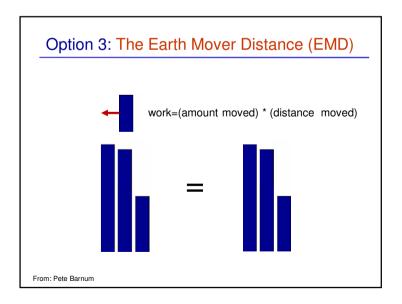


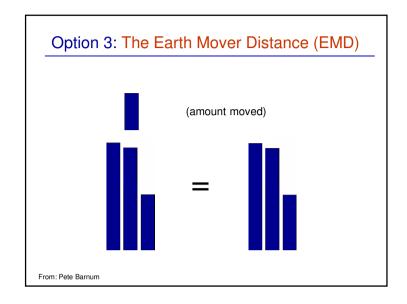












- Can be solved using Linear Programming
- Can be applied in high dim. histograms (color).

