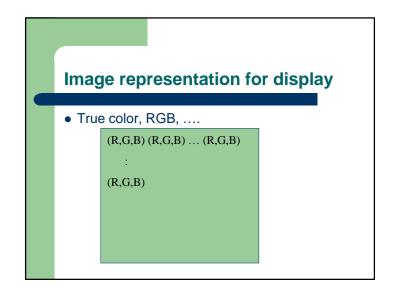
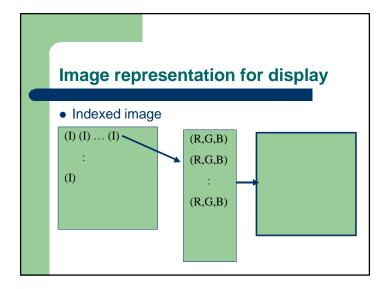
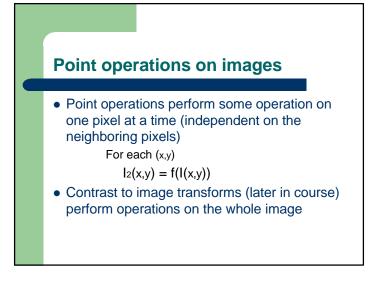


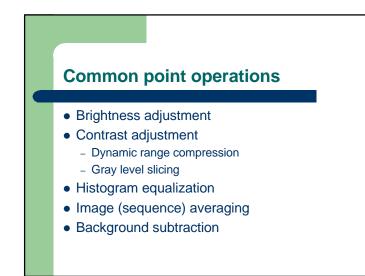
3 bytes

Mathematical / Computational image models • Continuous mathematical: I = f(x,y) • Discrete (in computer) adressable 2D array: I = matrix(i,j) • Discrete (in file) e.g. ascii or binary sequence: 023 233 132 232 125 134 134 212









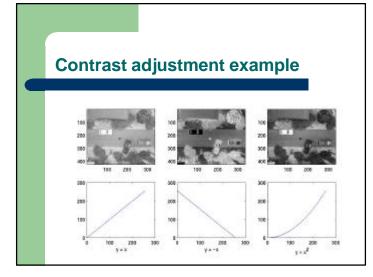
Linear brightness and contrast adjustment

 $I_2(x,y) = const^*I(x,y)$

- As seen on TV!
- Brightness For each (x,y) I₂(x,y) = I(x,y)+const



Contrast



Special purpose contrast adjustments

- Dynamic range limitation
 l₂(x,y) = sqrt(l(x,y))
 l₂(x,y) = log(l(x,y))
- Inverted image
 - $I_2(x,y) = 1 I(x,y)$
- Gray level slicing

