

$$I_1 = [50, 2, 5, 1] \quad I_2 = [40, 6, 2, 2]$$

SD  $\rightarrow 50 - 40 = 10$   
 $2 - 6 = -4$   
 $5 - 2 = 3$   
 $1 - 2 = -1$

$10 + (-4) + 3 + (-1) = 8$  SD

$$I_1 = [50, 2, 5, 1] \quad I_2 = [40, 6, 5, 2]$$

SD  $\rightarrow 50 - 40 = 10$   
 $2 - 6 = -4$   
 $5 - 5 = 0$   
 $1 - 2 = -1$

$\rightarrow (-4) + (-1) + 10 = 5$  SD

SSD = Sum squared differences

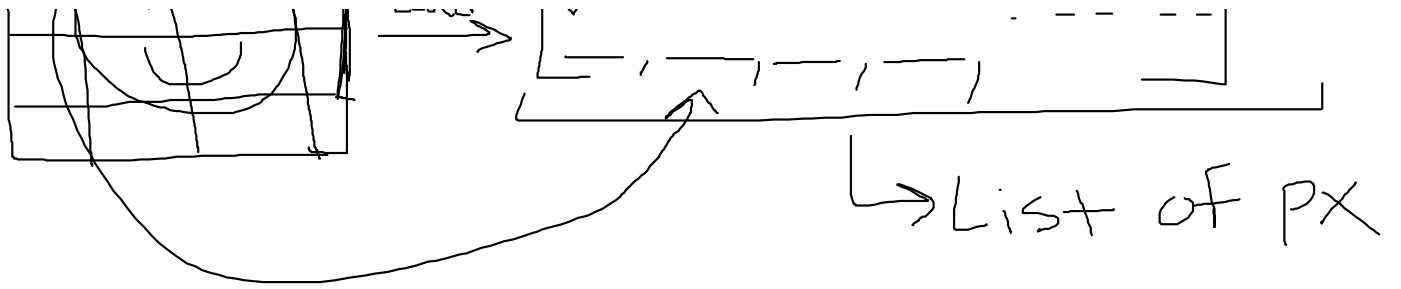
$$I_1 = [50, 2, 5, 1] \quad I_2 = [40, 6, 5, 2]$$

SSD  $\rightarrow (50 - 40)^2 = 10^2 = 100$   
 $(2 - 6)^2 = (-4)^2 = 16$   
 $(5 - 5)^2 = 0^2 = 0$   
 $(1 - 2)^2 = (-1)^2 = 1$

$100 + 16 + 0 + 1$   
 $= 117$

$\sqrt{117} = 10.8$





brightness(px)  $\rightarrow$  0-255