



Two Dimensional:

 The partial derivatives of Two dimensional functions represent direction of most rapid change in the intensity.

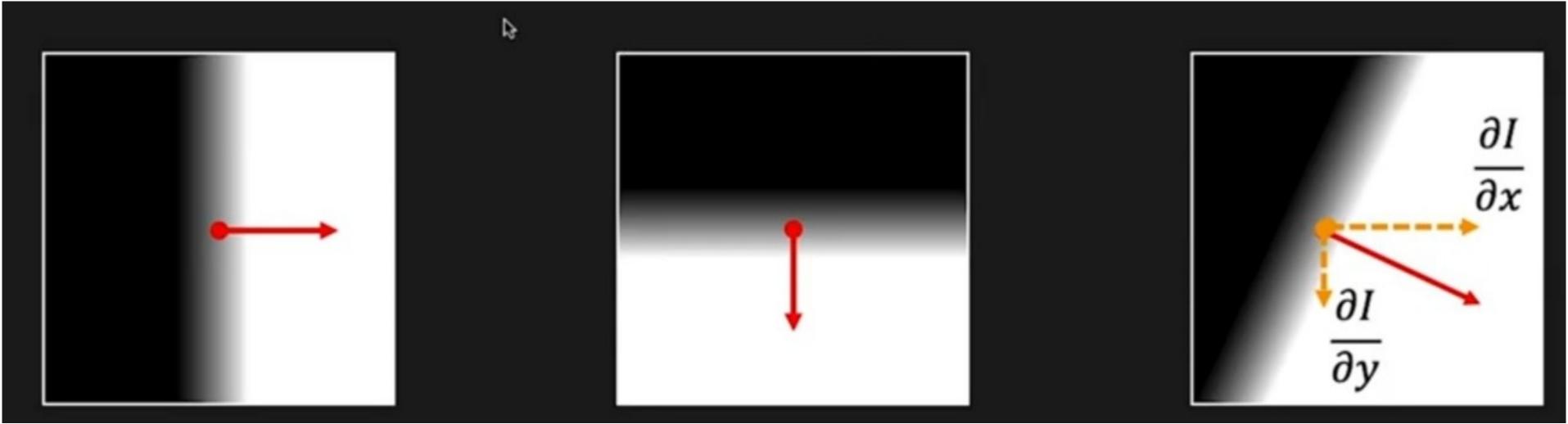
• THE PARTIAL DERIVATES ARE REPRESENTED BY GRADIENT "Π"



Edge

Edge

• $\nabla I = [0, x6/16] = |\nabla$







The resultant vector ∇I represents the direction of change in intensity