

Gradient as Edge Detector:

- Gradient Magnitude

$$\nabla I^2 = (\delta I / \delta x)^2 + (\delta I / \delta y)^2$$

- Gradient Magnitude represents the strength of Edge
- Gradient Orientation

$$\Theta = \tan^{-1} \left((\partial I / \partial x) / (\partial I / \partial y) \right)$$



