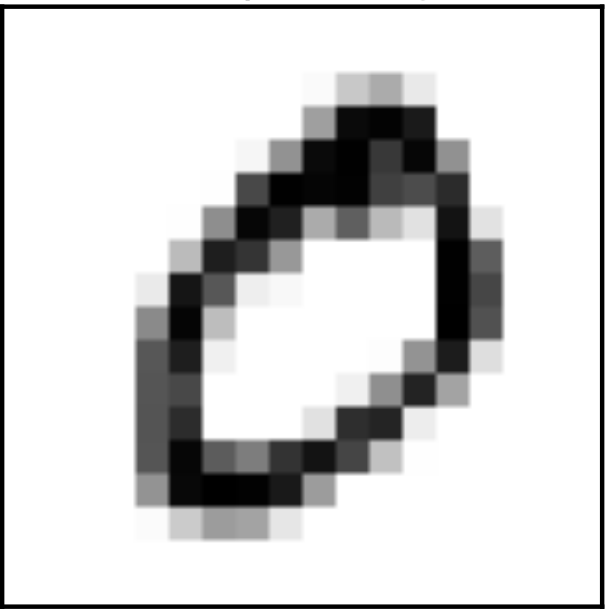
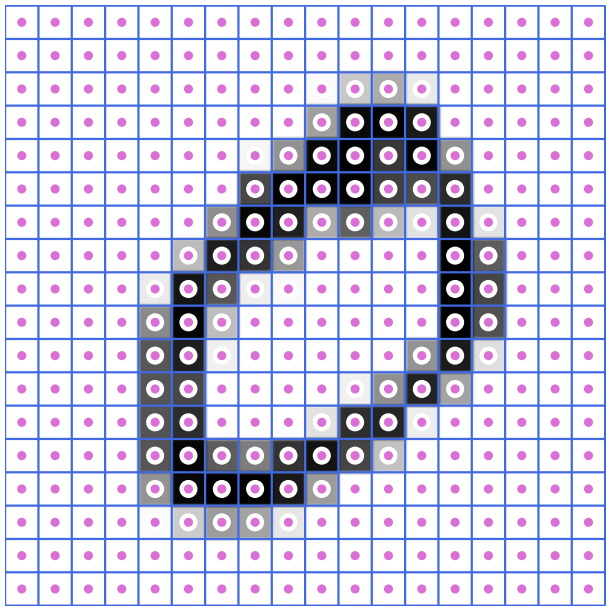
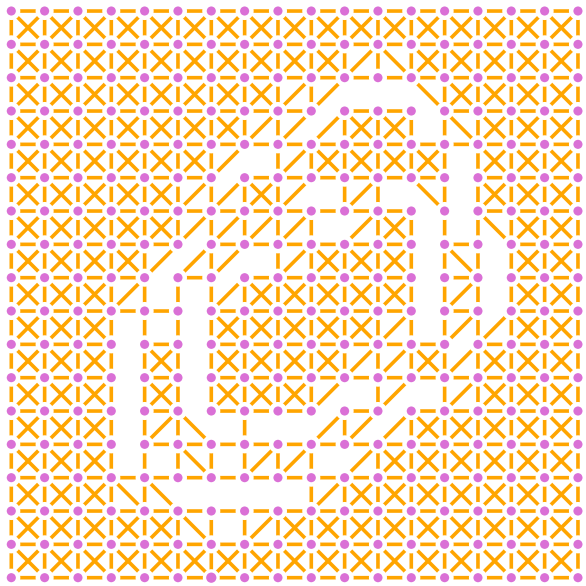
(a) Input Image



(b) Add nodes for each pixel



(c) Add edges between pixels



(d) Each pixel adds edges to nearby pixels to reflect the similarity of intensity values

Add weighted edge (u,v) if d(u,v) is small and w(u,v) is large s

$$\begin{cases} d(u,v) = ||x_u - x_v||^2 + ||y_u - y_v||^2 \leq r & \text{Distance is small} \\ w(u,v) = e^{-\frac{(I_u - I_v)^2}{\sigma_I^2} - \frac{d(u,v)^2}{\sigma_d^2}} \geq s & \text{Intensity and distance are close} \end{cases}$$