













































Given an error metric: d(I(x,y),b(x,y))

example: $d(I,b) = \Sigma((I(x,y)-b(x,y))^2)$

 $\begin{array}{l} \mbox{Initialize binary image b(x,y) (example - choose random binary image). \\ \mbox{Randomly chose a pixel } (x_0,y_0) \mbox{ in } b(x,y) \mbox{ if } d(I,\widetilde{b}) < d(I,b) \mbox{ then assign } b = \widetilde{b} \mbox{ where } \widetilde{b} \mbox{ is } b \mbox{ except for } \widetilde{b}(x_0,y_0) = 1 \mbox{-} b(x_0,y_0) \\ \mbox{Repeat last step until } |d(I,b) \mbox{ -} d(I,b)| \mbox{ is "small"}. \end{array}$

Error metric can be "smart" for example based on Human Visual System.







































