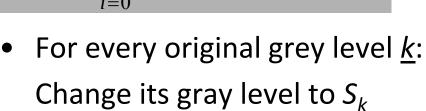
Histogram Equalization

Compute Cumulative Histogram

N Pixels, greylevels O.. K

 n_i = # pixels at greylevel i

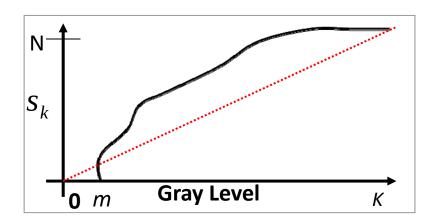
$$S_k = \sum_{i=0}^k n_i$$

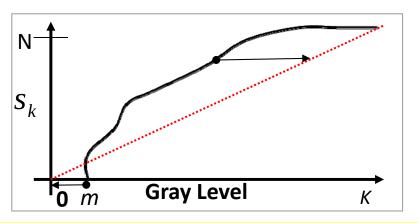


 Stretch (linear) new gray levels back to [0 .. K]

$$-S_m \rightarrow 0; S_K \rightarrow K$$

• $\underline{k} \rightarrow K(S_{\underline{k}} - S_m) / (S_K - S_m)$





m is the first non-zero gray level