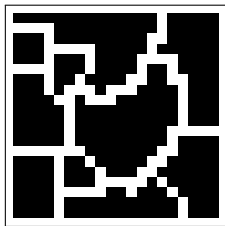


# MC920: Introdução ao Processamento de Imagem Digital

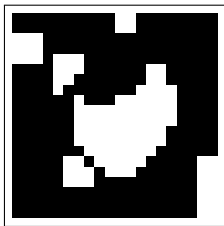
Martin de Oliveira (118077)    Rafael Hermano (121286)

27 de maio de 2014

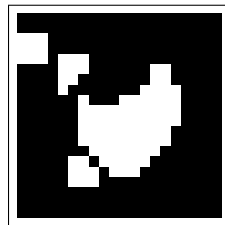
$$\delta_X^1(Y) = \delta_B(Y) \cap X$$
$$\delta_X^n(Y) = \delta_X^1(\delta_X^1(\dots \delta_X^1(Y)))$$



(a) Original



(b) Máscara



(c) Dilatação geodésica

$$\delta_f^1(g) = \min(\delta_1(g), f)$$

$$\delta_f^n(g) = \delta_f^1(\delta_f^1(\dots \delta_f^1(g)))$$

máscara  $\rightarrow f = [ 0 \ 0 \ 1 \ 3 \ 3 \ 7 \ 7 \ 7 \ 7 \ 5 \ 2 \ 1 \ 1 ]$

marcador  $\rightarrow g = [ 0 \ 0 \ 1 \ 2 \ 2 \ 2 \ 5 \ 2 \ 2 \ 2 \ 2 \ 1 \ 1 ]$

$$\delta_f^1(g) = [ 0 \ 0 \ 1 \ 3 \ 3 \ 3 \ 6 \ 3 \ 3 \ 3 \ 2 \ 1 \ 1 ]$$

$$\delta_f^2(g) = [ 0 \ 0 \ 1 \ 3 \ 3 \ 3 \ 6 \ 3 \ 3 \ 3 \ 2 \ 1 \ 1 ]$$

# Segmentação morfológica

