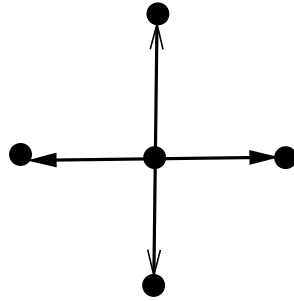
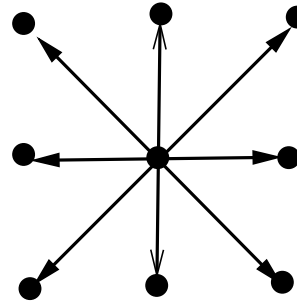


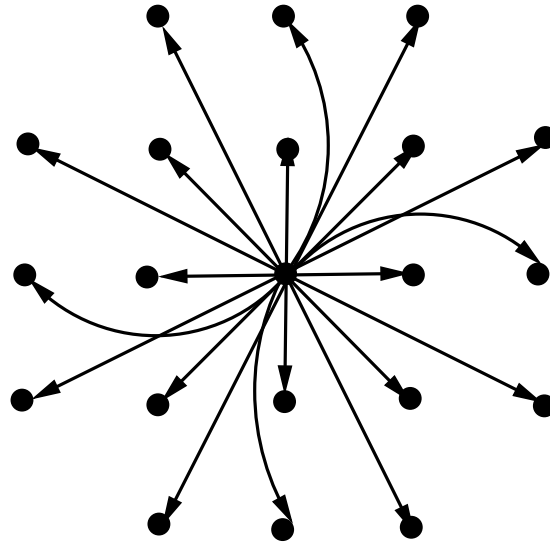
# Adjacency Relation



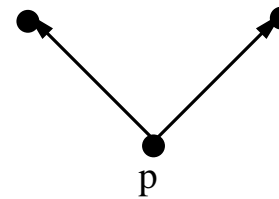
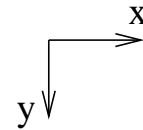
(a)



(b)

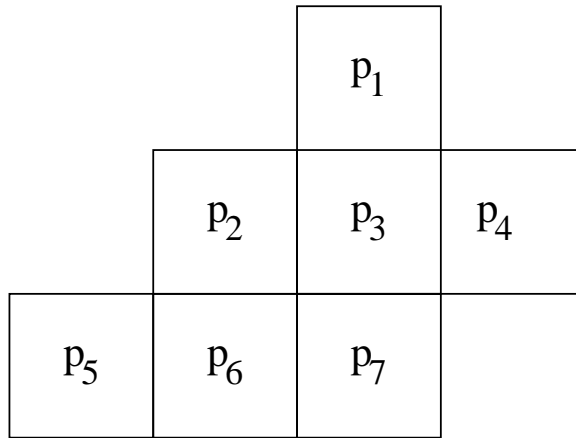


(c)

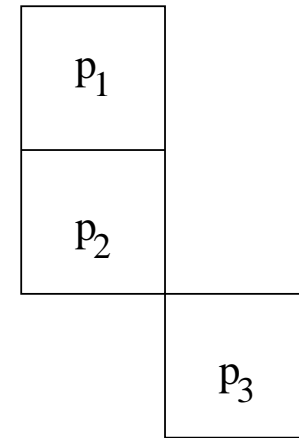


(d)

# Connectivity Relation

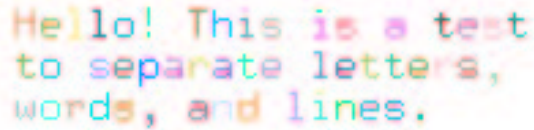


4-connected component



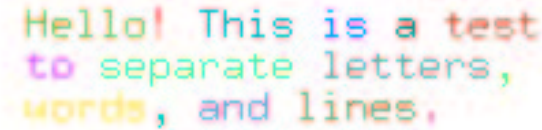
8-connected component

# Labeling of Components



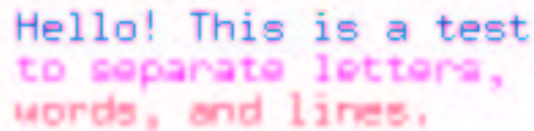
Hello! This is a test  
to separate letters,  
words, and lines.

(a)



Hello! This is a test  
to separate letters,  
words, and lines.

(b)



Hello! This is a test  
to separate letters,  
words, and lines.

(c)

Figura 1: Text labeled with circular adjacency of radius (a)  $\sqrt{2}$ , and (b) 5, and (c) with box adjacency of size  $30 \times 5$  pixels.

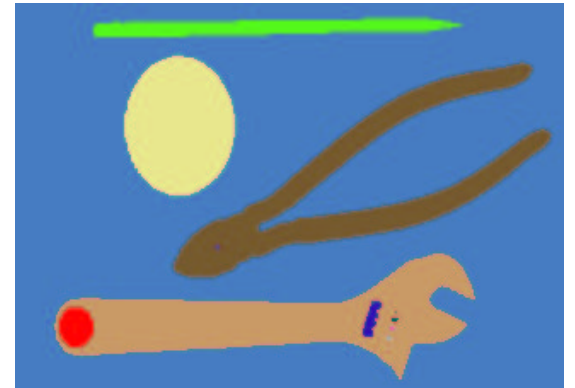
# Labeling of Components



(a)



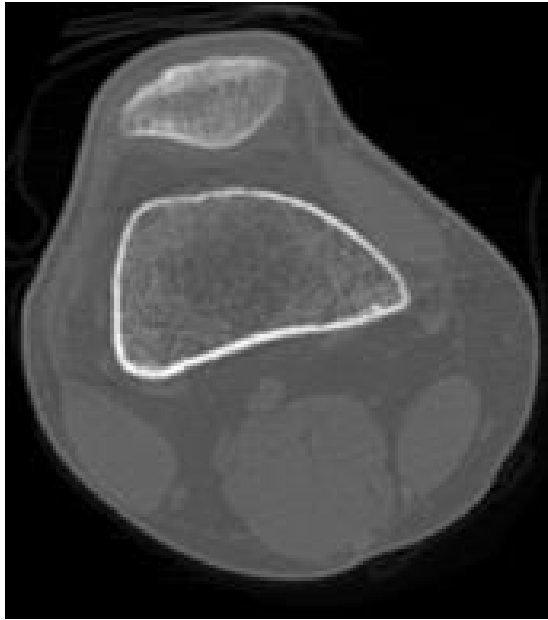
(b)



(c)

Figura 2: Image labeled with constrained and circular adjacency of radius (a)  $\sqrt{2}$  and (b) 15, and (c) with bounded and circular adjacency of radius  $\sqrt{2}$  and threshold 0.

# Labeling of Components



(a)



(b)



(c)

Figura 3: (a) CT Knee. Image labeled with bounded and circular adjacency of radius  $\sqrt{2}$  and thresholds (b) 5 and (c) 10.

# Object

