

#### Tratamiento de Señales

Version 2022-I

### **Region Growing**

[ Capítulo 7 ]

#### Dr. José Ramón Iglesias

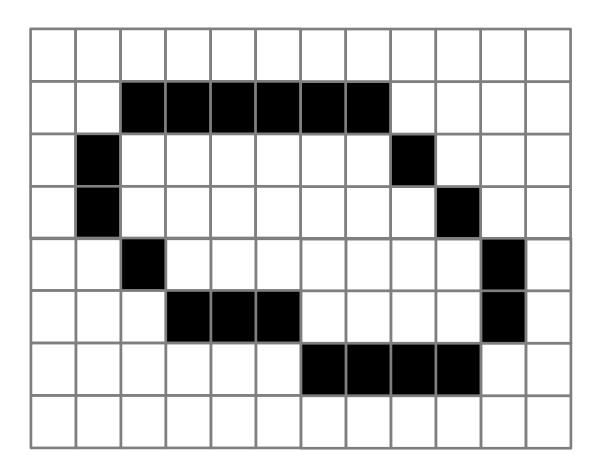
DSP-ÁSIC BUILDER GROUP Director Semillero TRIAC Ingenieria Electronica Universidad Popular del Cesar

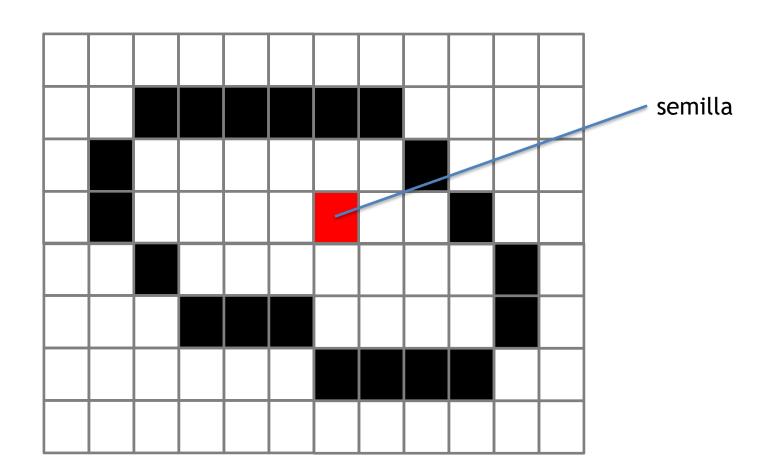
### **Region Growing**

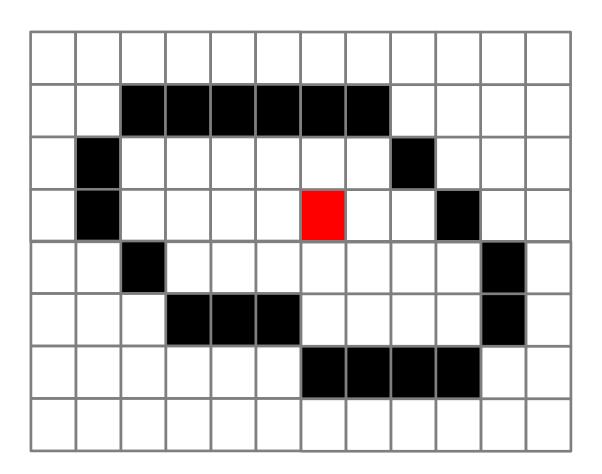
Se inicia la segmentación con una semilla que se dilata de manera iterativa siempre y cuando cumpla con determinadas condiciones de pertenencia.

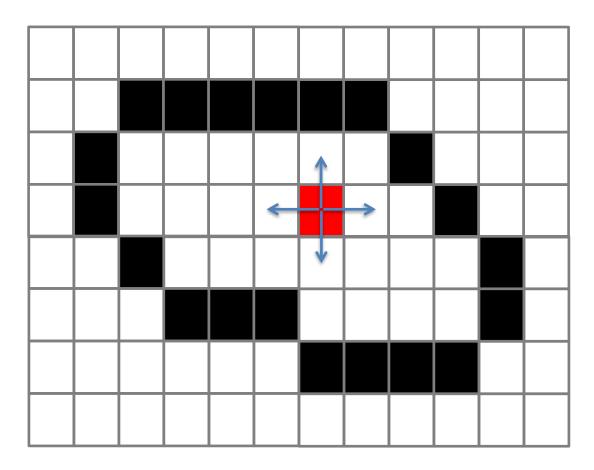
Existen algoritmos para imágenes binarias, en tonos de gris y a color.

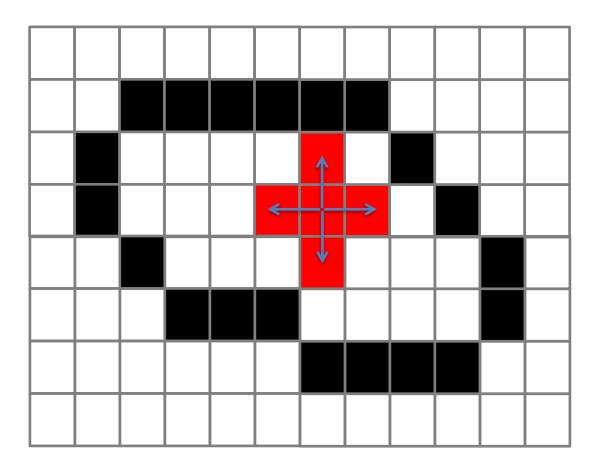
## Region Growing Binario

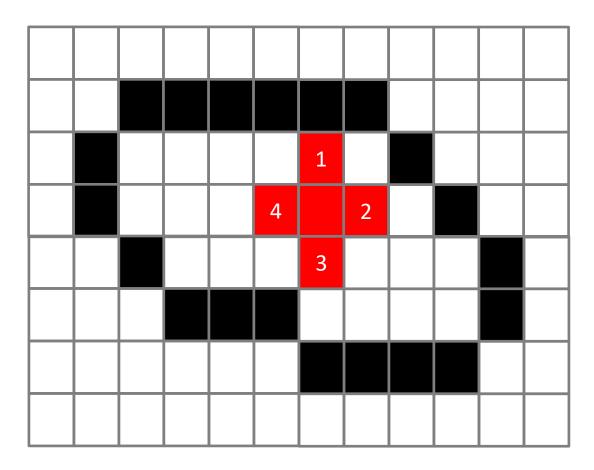


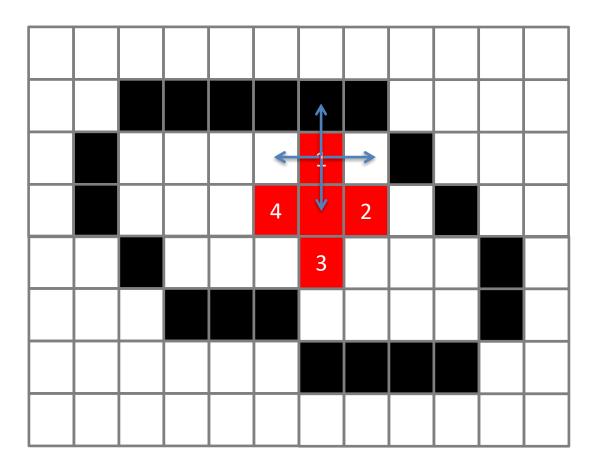


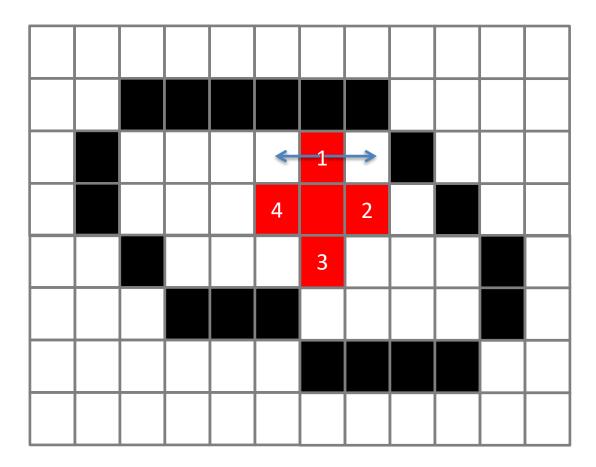


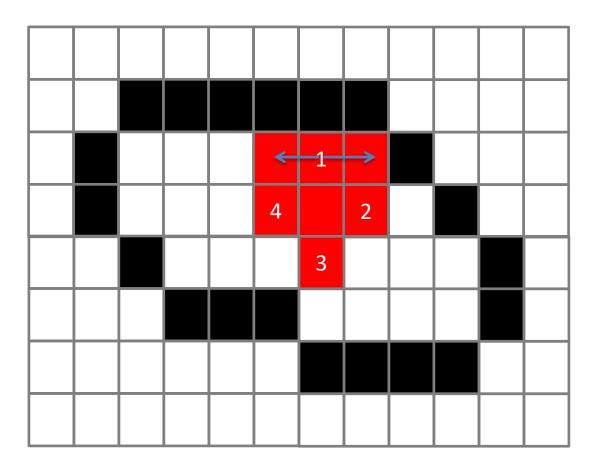


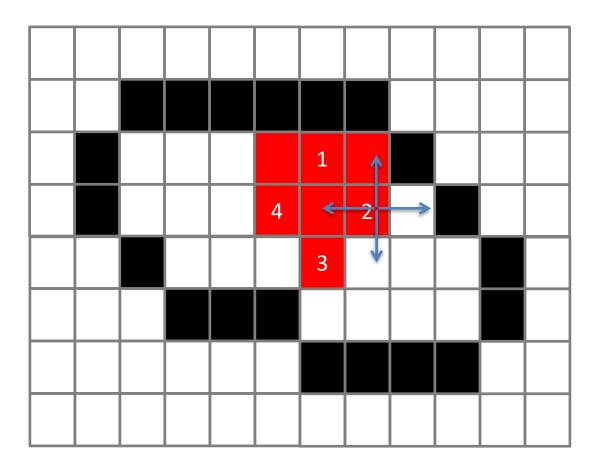


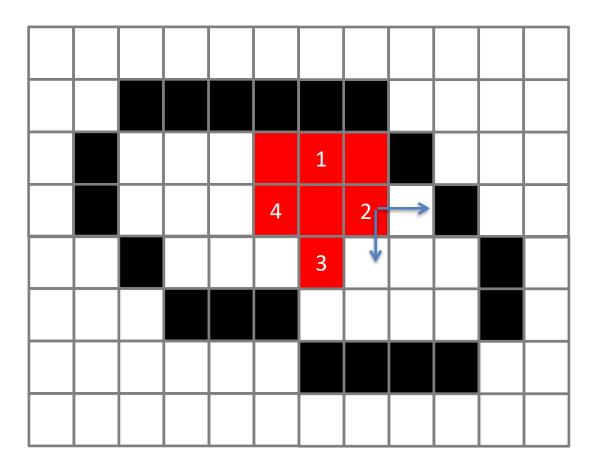


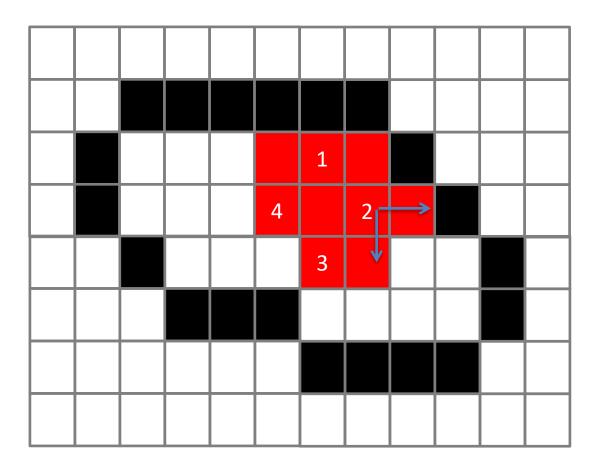


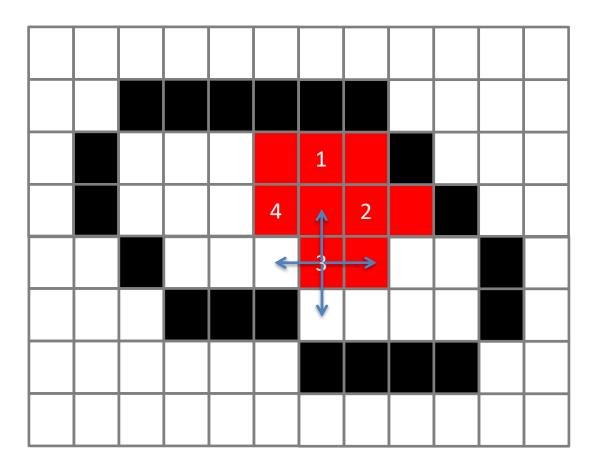


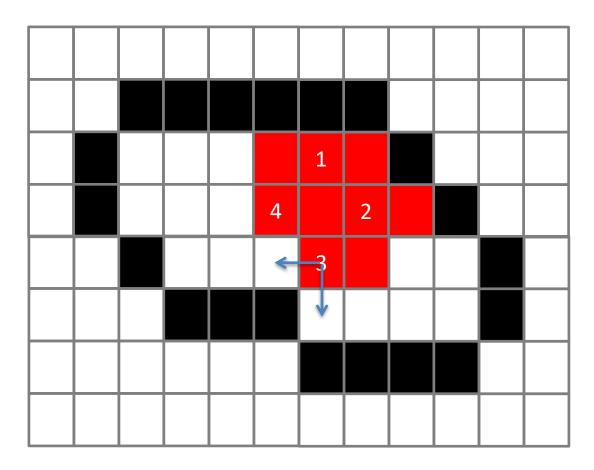


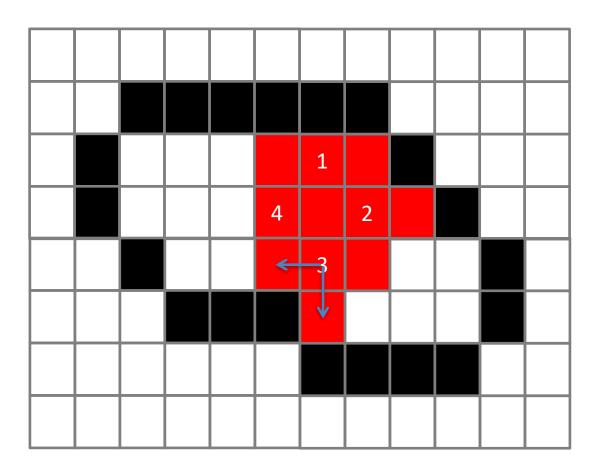


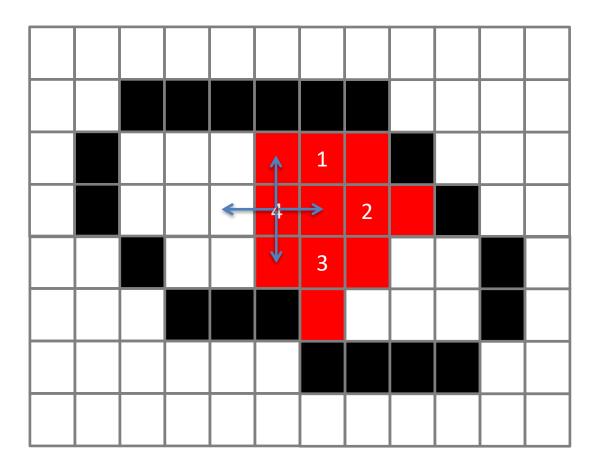


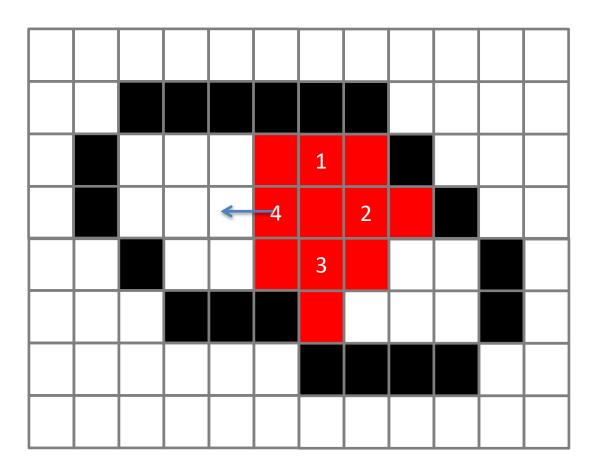


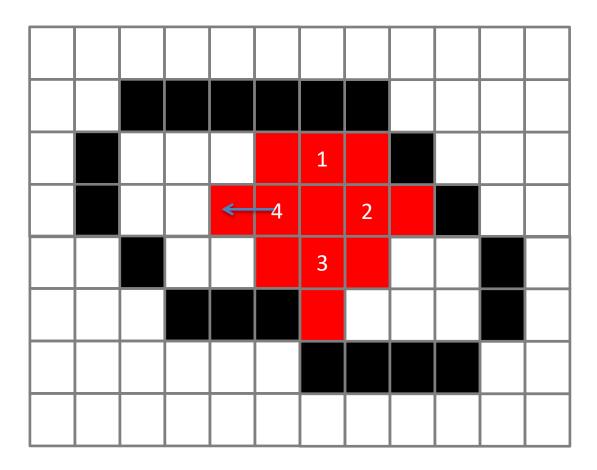


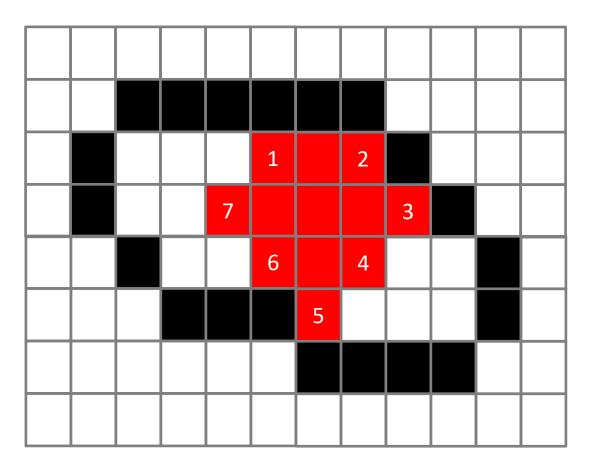


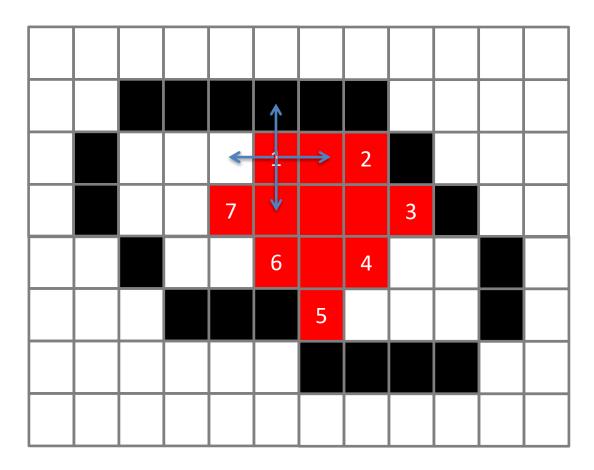


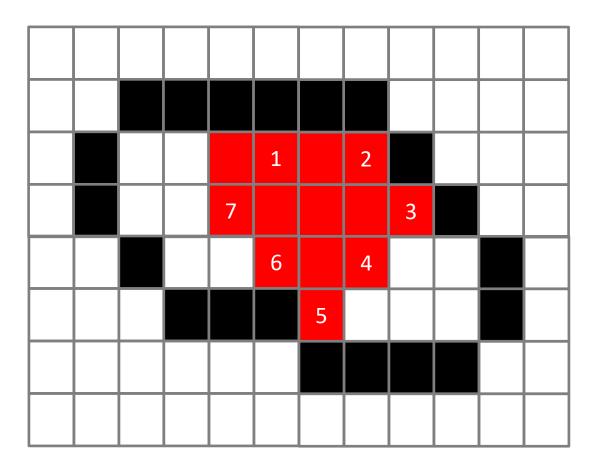


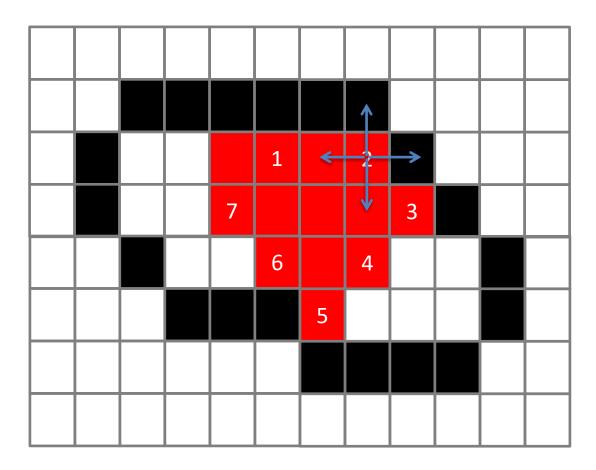


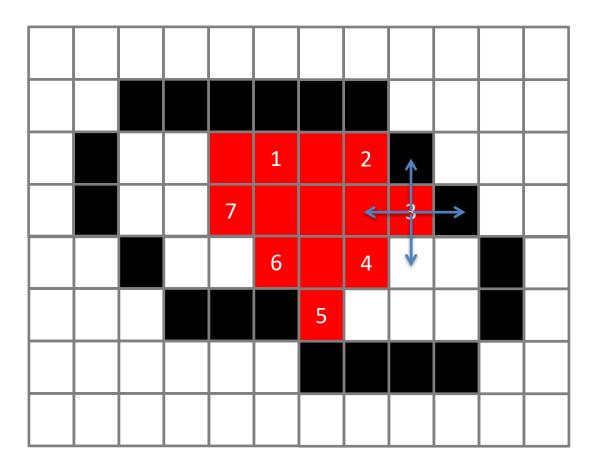


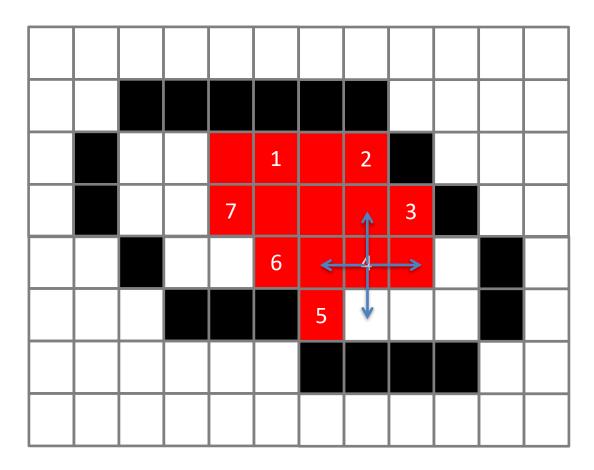


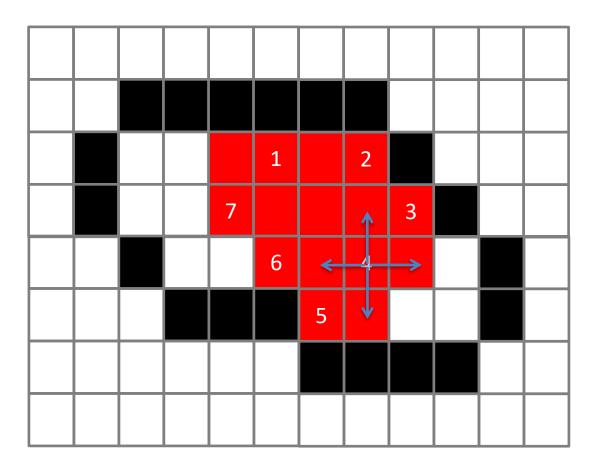


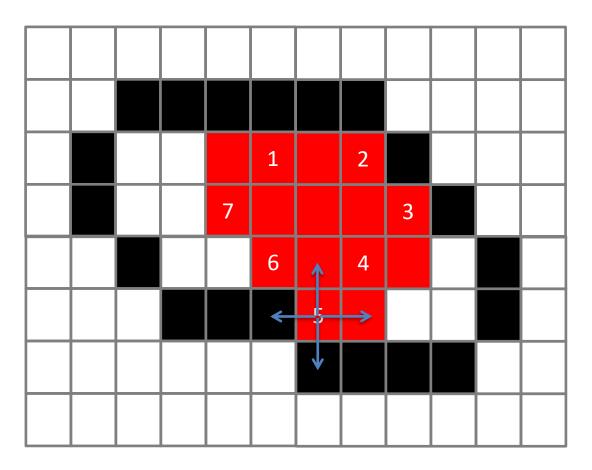


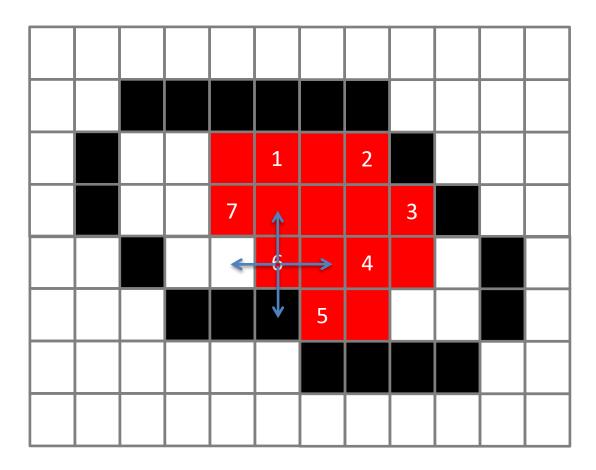


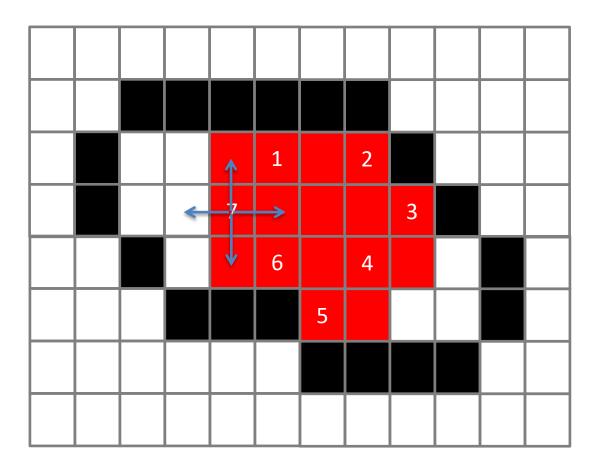


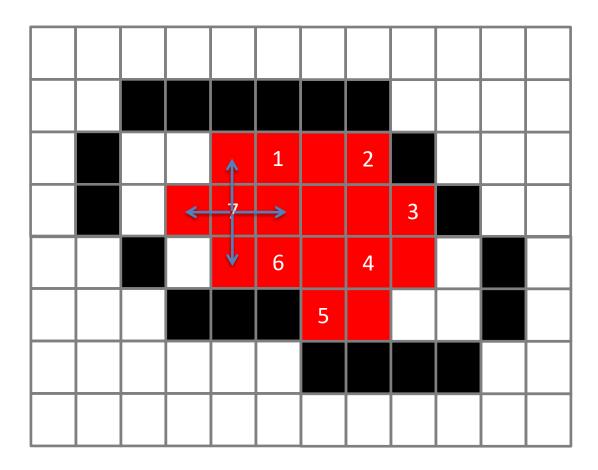


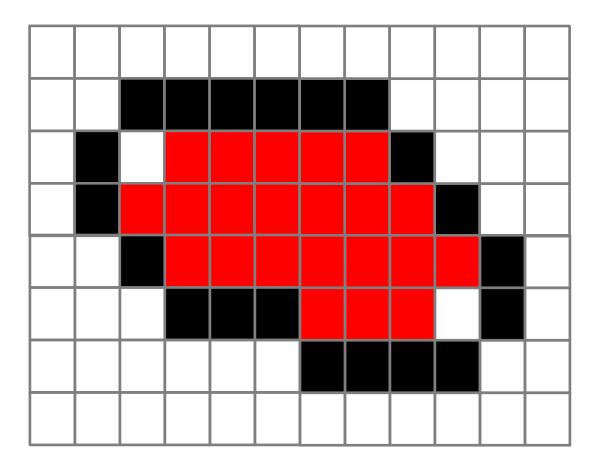


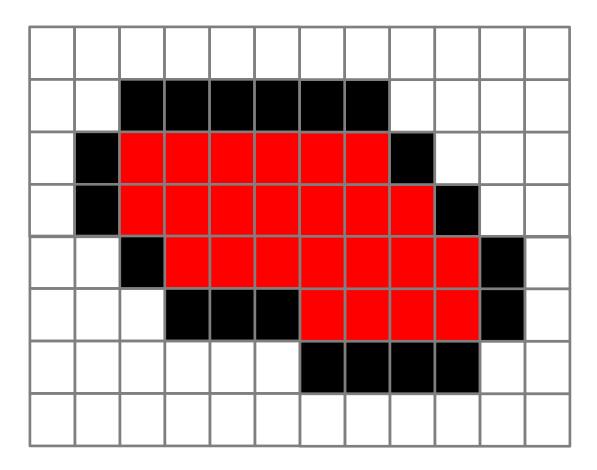




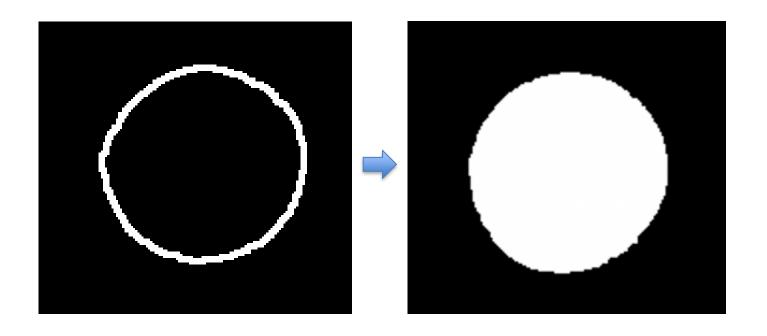




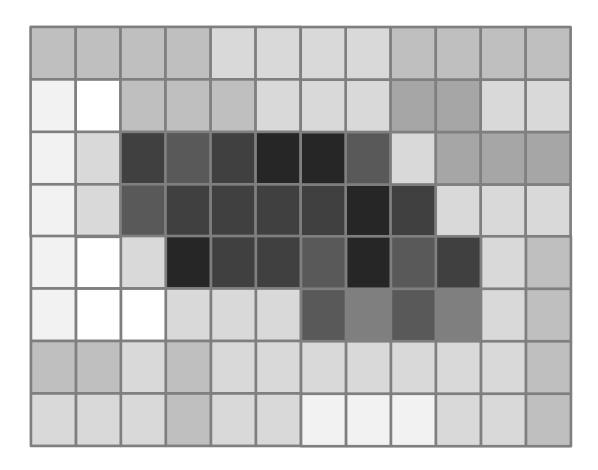


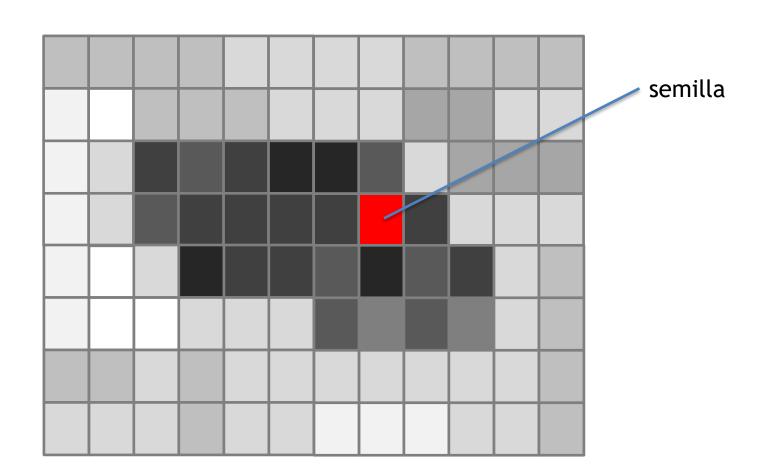


# Ejemplo en imágenes binarias



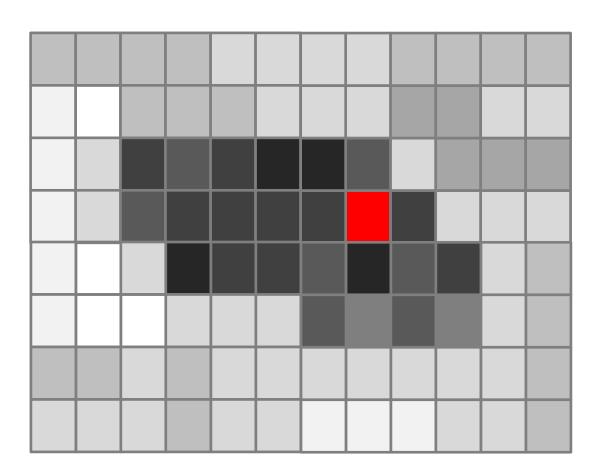
## Region Growing en Tonos de Gris

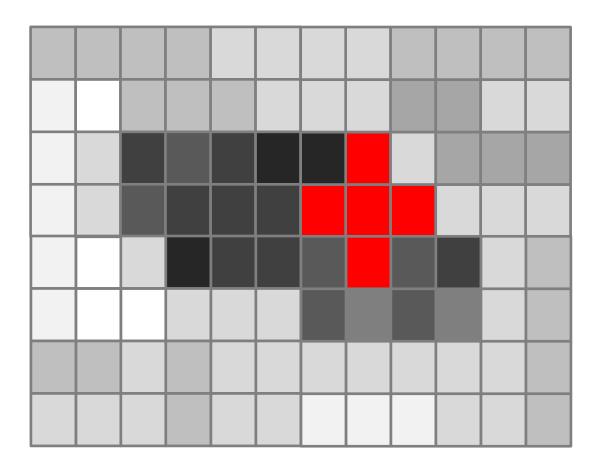


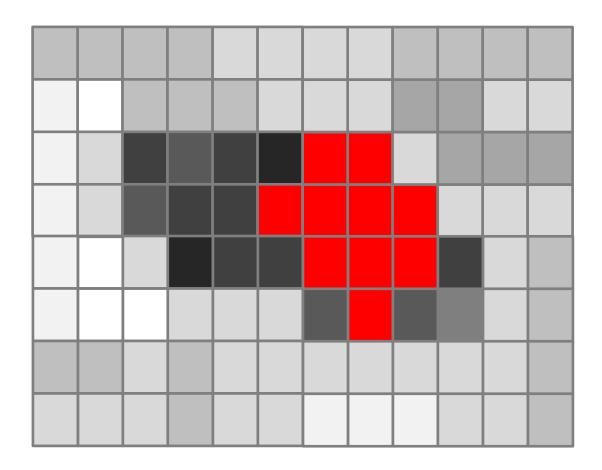


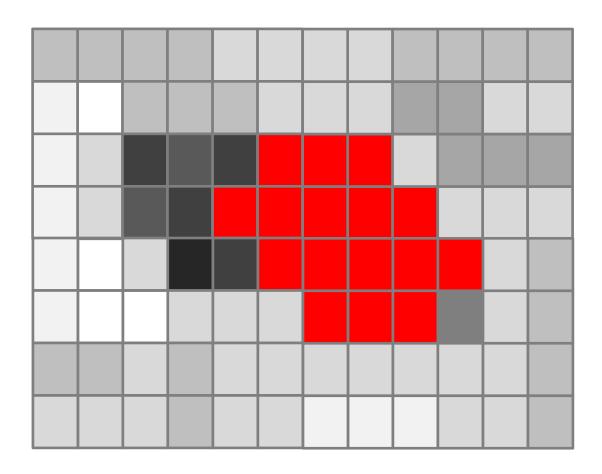
En cada iteración agregamos pixeles según la dilatación siempre y cuando cumpla una condición.

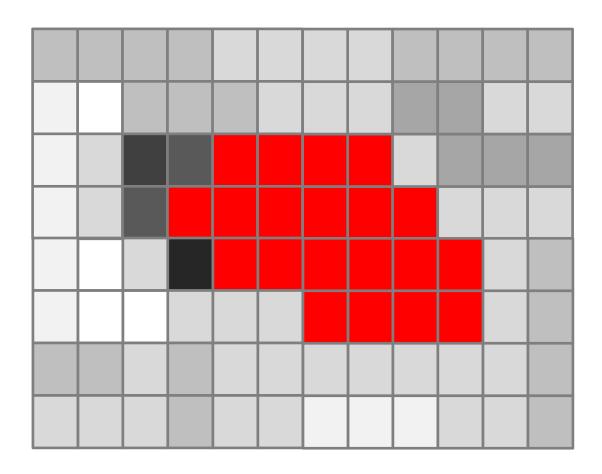
Ejemplo tono de gris similar.

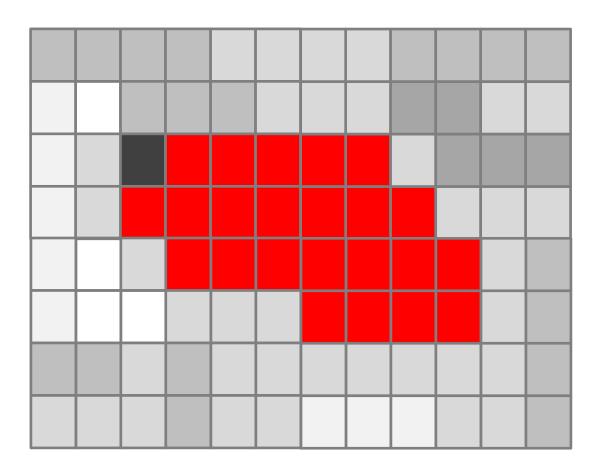


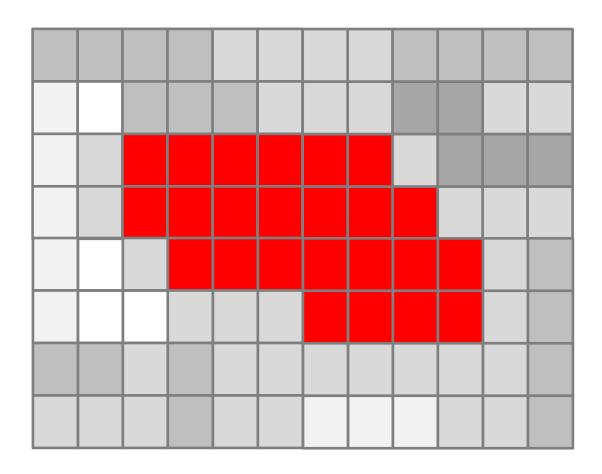


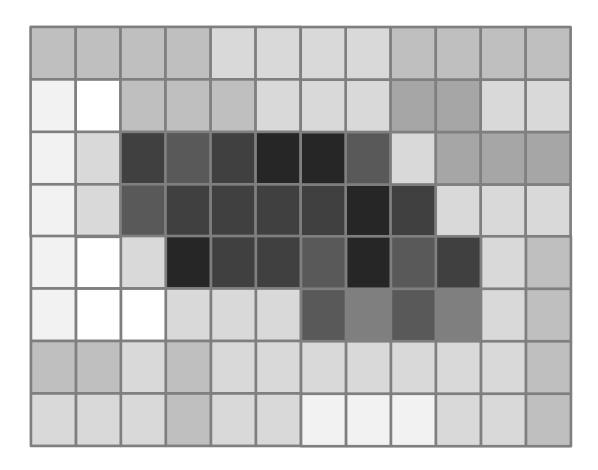












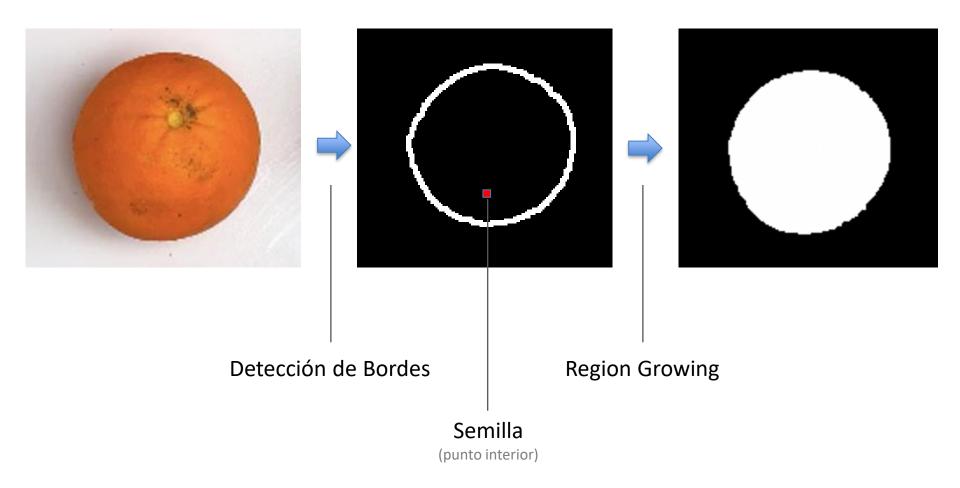
## Ejemplo en imágenes en tonos de gris



## Ejemplo en imágenes en tonos de gris



## Ejemplo en imágenes a color



## Ejemplo en imágenes a color

