

Cohen ~~Stod~~ Sutherland

Código $\leftarrow \uparrow \downarrow \rightarrow$

OR = 0 \rightarrow Dibuja

OR \neq 0

AND = 0 \rightarrow Dibujo Recortes

AND \neq 0 \rightarrow No se dibuja.

Liang Barsky

$$Y_{\text{inf}} = Y_{\text{inicial}} + m_{\text{inf}} (Y_{\text{final}} - Y_{\text{inicial}})$$

$$Y_{\text{sup}} = Y_i + m_{\text{sup}} (Y_f - Y_i)$$

$$X_{\text{izq}} = X_i + m_{\text{izq}} (X_f - X_i)$$

$$X_{\text{der}} = X_i + m_{\text{der}} (X_f - X_i)$$

} m
 $0 \leq m \leq 1$

Complementario

$$X_{\text{inf}} = X_i + m_{\text{inf}} (X_f - X_i)$$

$$X_{\text{sup}} = X_i + m_{\text{sup}} (X_f - X_i)$$

$$Y_{\text{izq}} = Y_i + m_{\text{izq}} (X_f - X_i)$$

$$Y_{\text{der}} = Y_i + m_{\text{der}} (X_f - X_i)$$

Bresenham Linea $x_1 < x_f$

$$0 \leq m \leq 1$$

$$j=0 \quad j < \Delta x \quad (x_0, y_0)$$

$$p_k < 0 \quad p_0 = 2\Delta y - \Delta x$$

$$P(x_k+1, y_k)$$

$$p_{k+1} = p_k + 2\Delta y$$

Si no

$$P(x_k+1, y_{k+1})$$

$$p_{k+1} = p_k + 2\Delta y - 2x_k$$

Caso especial $0 \leq |m| \leq 1$
 $\rightarrow P_{k+1}(x_k+1, y_k-1)$

Circunferencia.

Origen radio

$$P_0(0, r) \rightarrow \text{Simetrías}$$

$$p_0 = 1 - r$$

$$p_k < 0$$

$$P_{k+1} = (x_k+1, y_k)$$

$$p_{k+1} = p_k + 2x_k + 3$$

$$p_k \geq 0$$

$$P_{k+1} = (x_k+1, y_k-1)$$

$$p_{k+1} = p_k + 2x_k - 2y_k + 5$$

Centron fuera Se suman a los puntos
despues de Obtener simetrías