

OPERADORES A NIVEL DE BIT



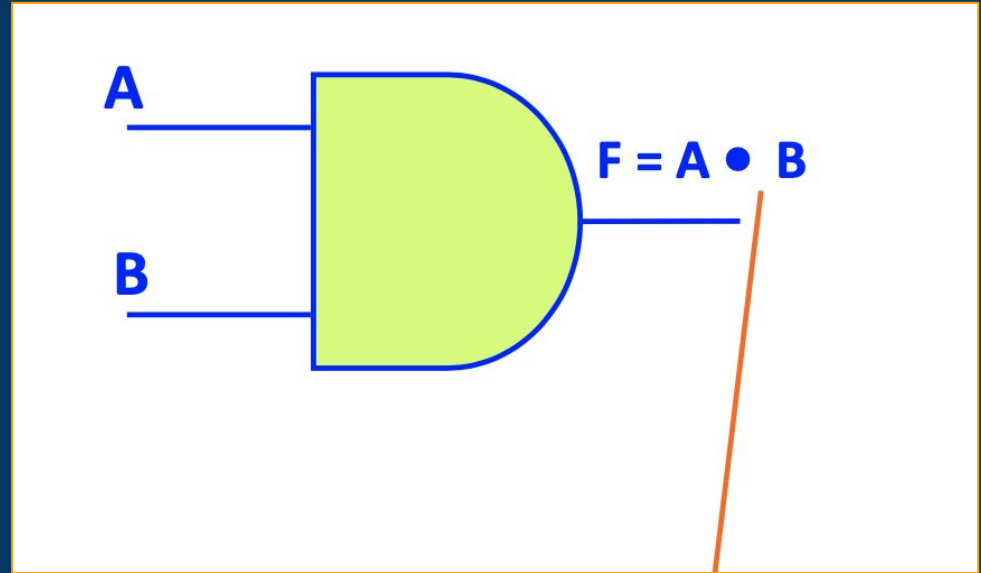
- OPERACIONES BIT A BIT

AND
OR
XOR
NOT

- AND & (Producto lógico)

AND 0101
 0011
 = 0001

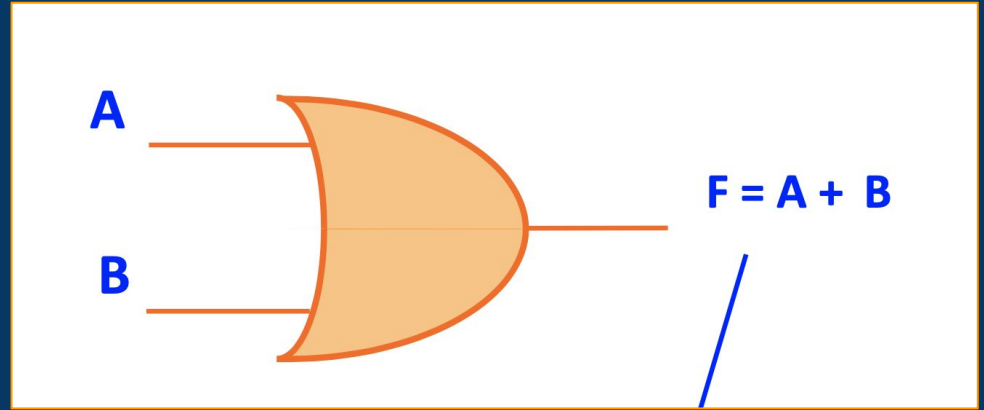
A	B	F
0	0	0
1	0	0
0	1	0
1	1	1



- OR | (Suma l3gica)

OR 0101
 0011
= 0111

A	B	F
0	0	0
1	0	1
0	1	1
1	1	1



- NOT ~

NOT (0101) = 1010

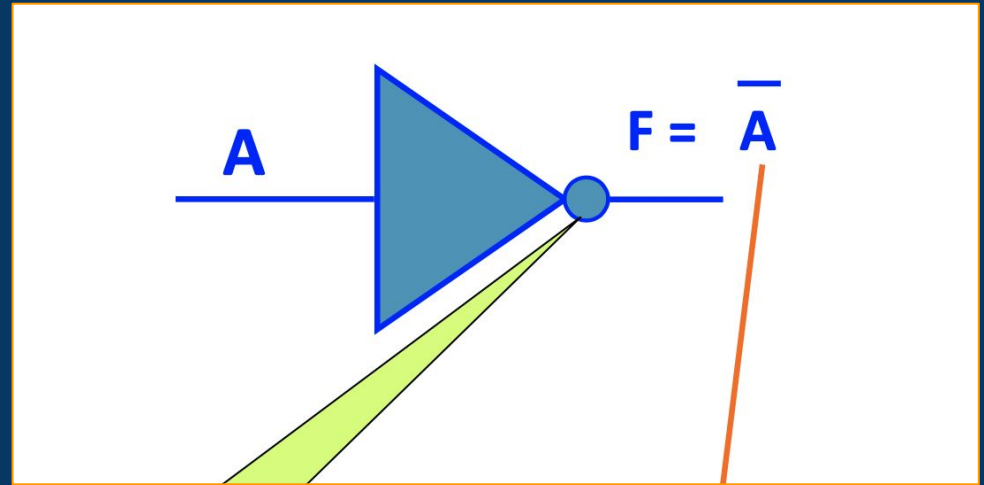
NOT (0011) = 1100

NOT (0111) = 1000

A F

0 1

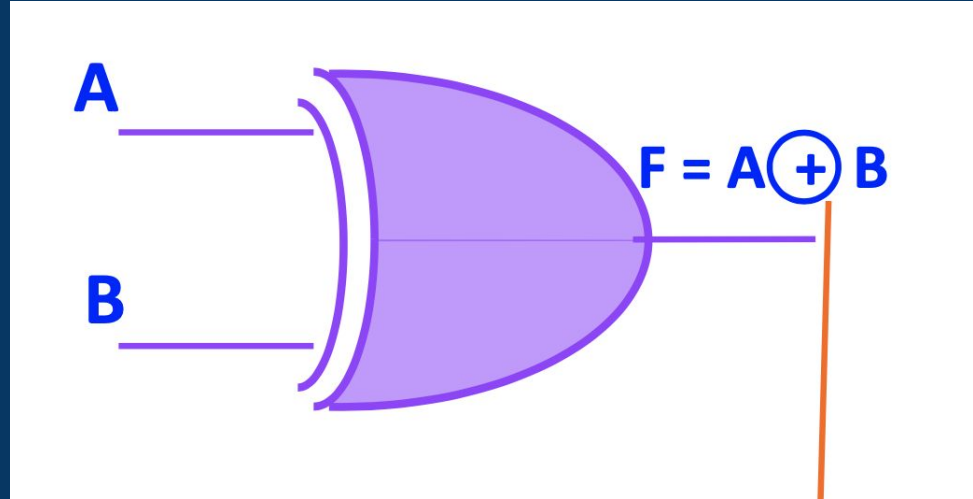
1 0



- XOR (exclusive OR) (^)

XOR 0101
 0011
= 0110

A	B	F
0	0	0
1	0	1
0	1	1
1	1	0



- **Desplazamiento**

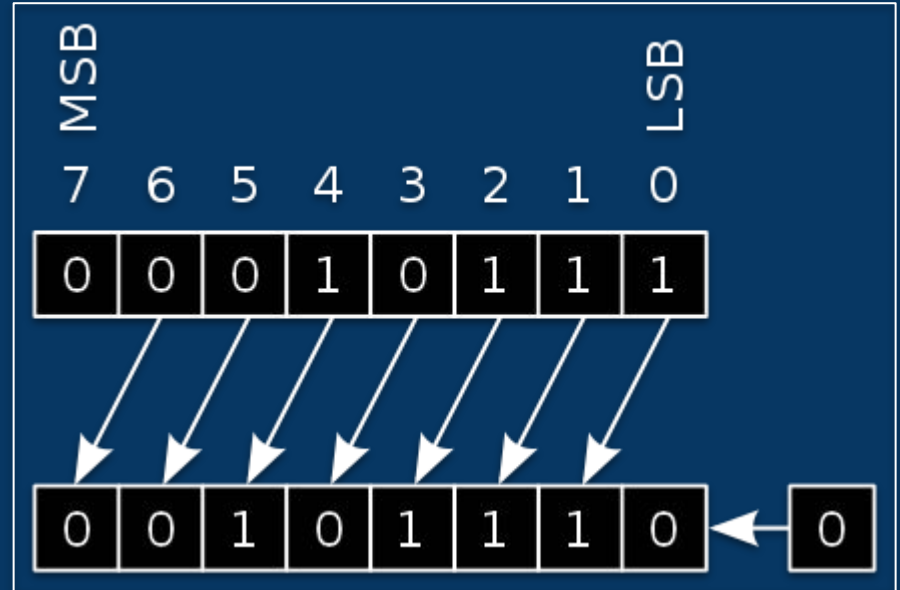
- **A izquierda <<**

- **A derecha >>**

- Desplazamiento a izquierda <<

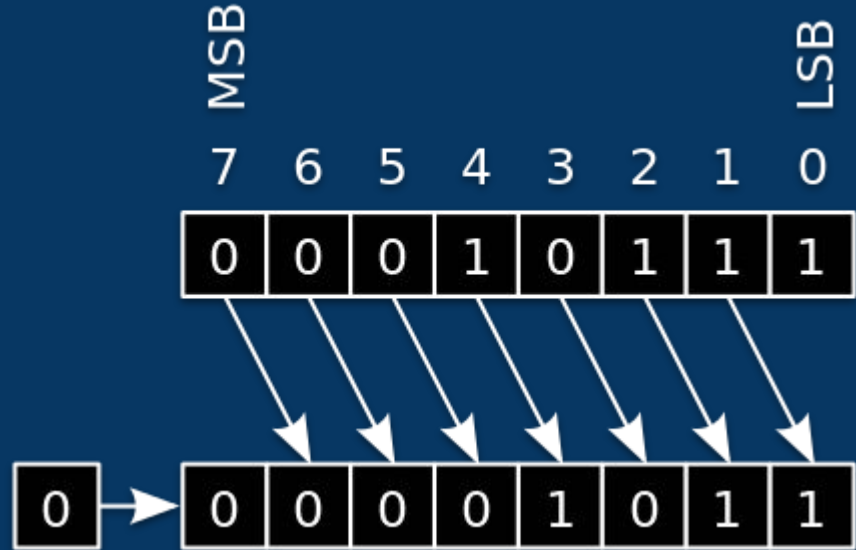
$$\begin{array}{r} 00010111 \\ \ll 1 \\ = 00101110 \end{array}$$

MSB: Most significant byte
LSB: Least significant byte



- Desplazamiento a derecha >>

00010111
 >> 1
= 00001011



- Rotación

- Circular

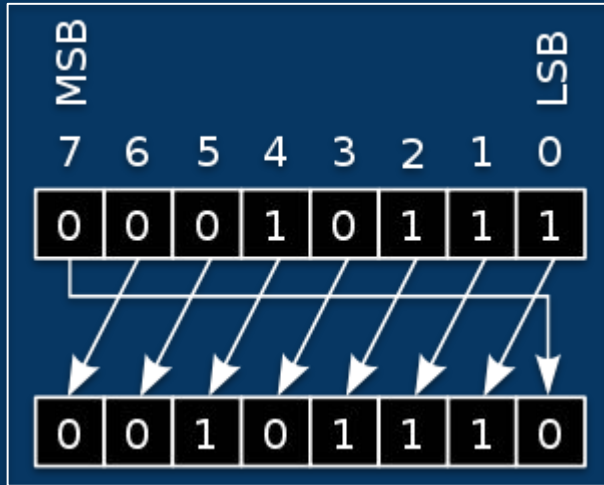
- a derecha
 - a izquierda

- Con bit de acarreo

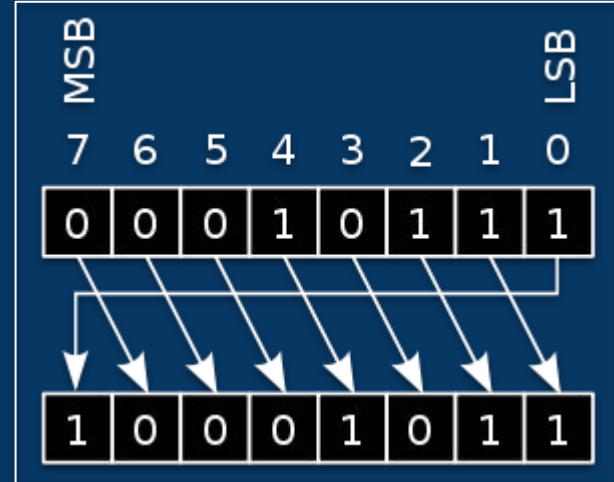
- a derecha
 - a izquierda

- Rotación circular

- A izquierda

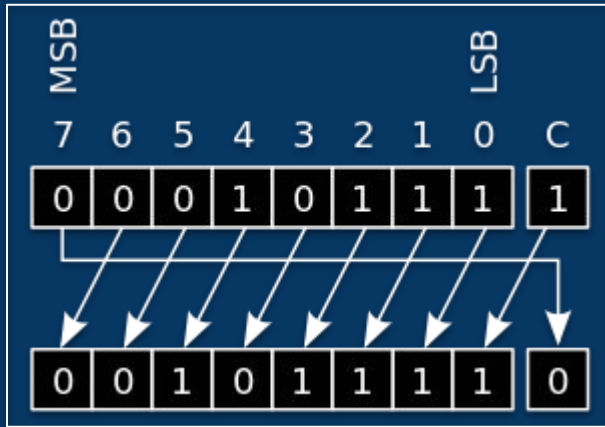


- A Derecha



- Rotación con bit de acarreo

- A izquierda



- A derecha

