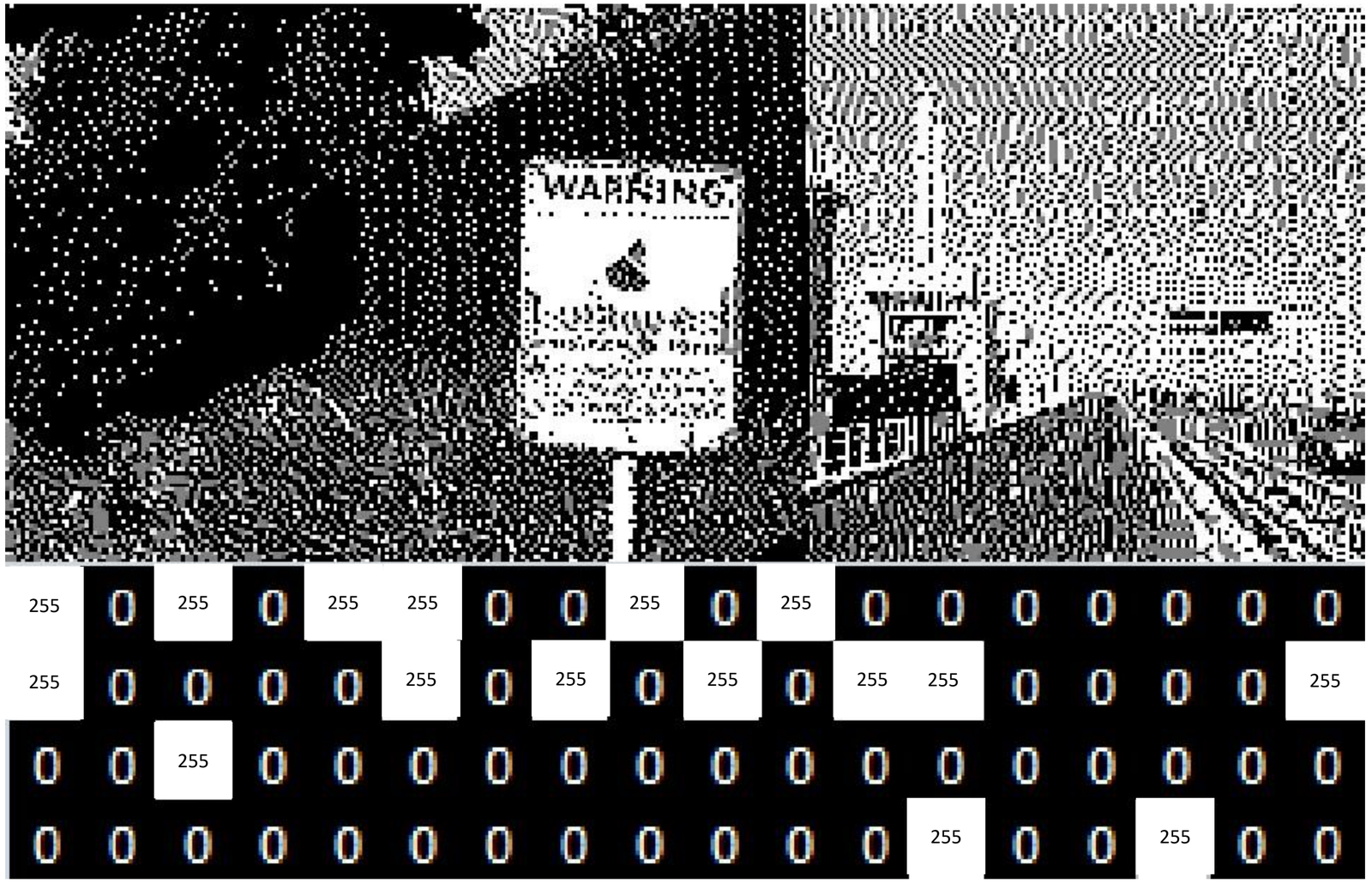
binary image

Binary Image

- A binary image is consists of exactly two colors.
  - **Black**
  - **White**
- Also referred as **1-Bit** Image

Binary Image



bitwise operations

1. logical AND

2. logical OR

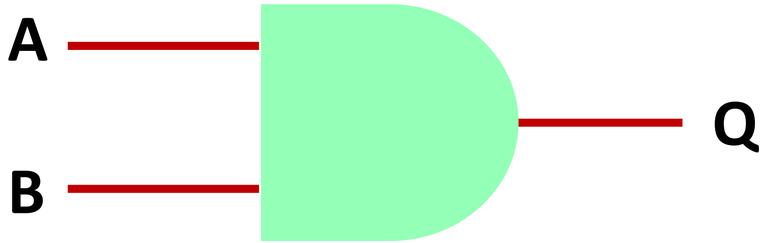
3. logical NOT

4. logical XOR

Logical AND

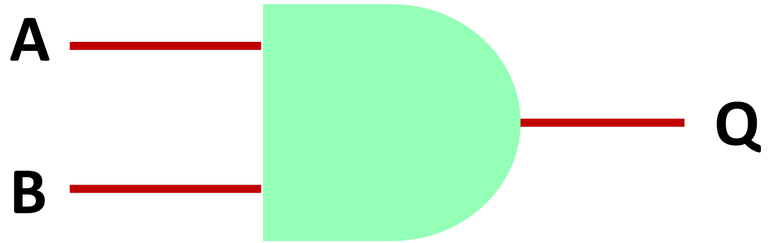
Bitwise Operations

Logical **AND**



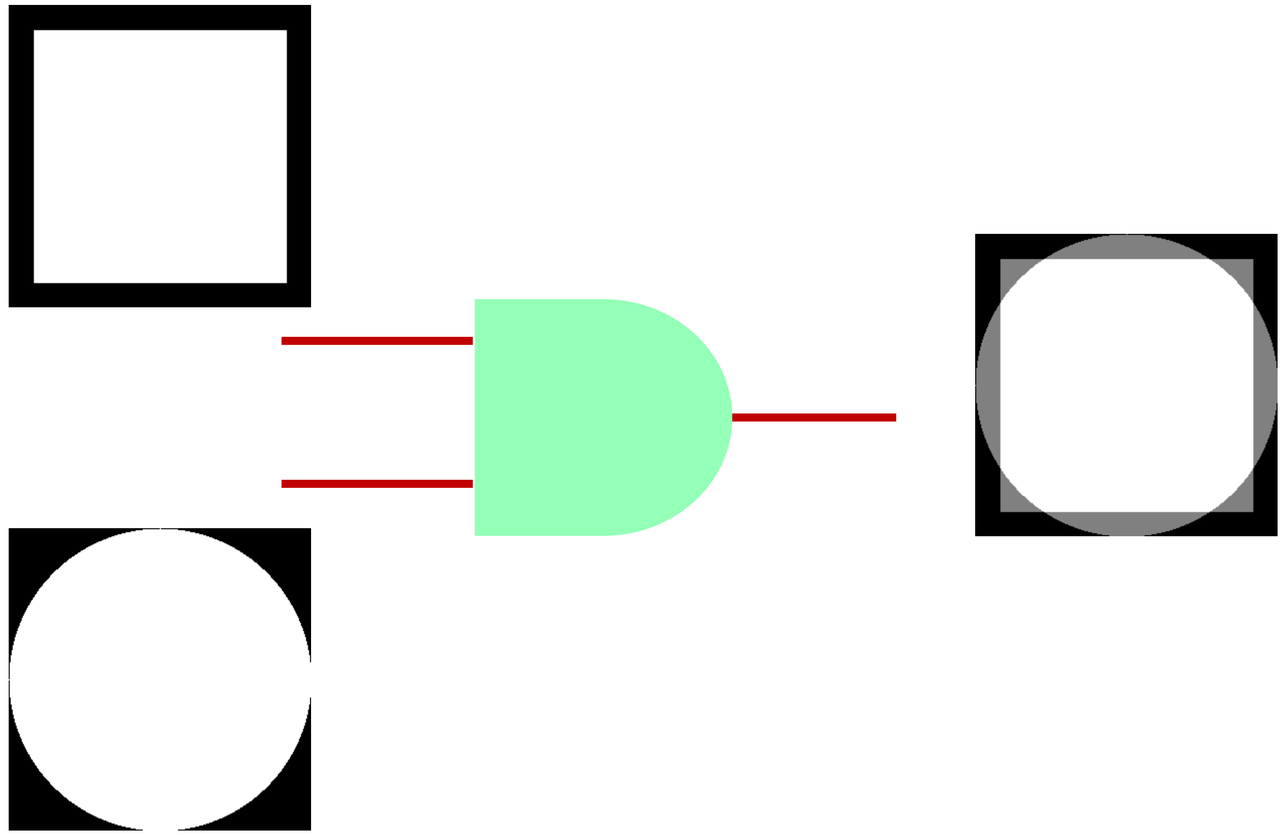
A	B	Q
0	0	0
0	1	0
1	0	0
1	1	1

Logical **AND** to an Image

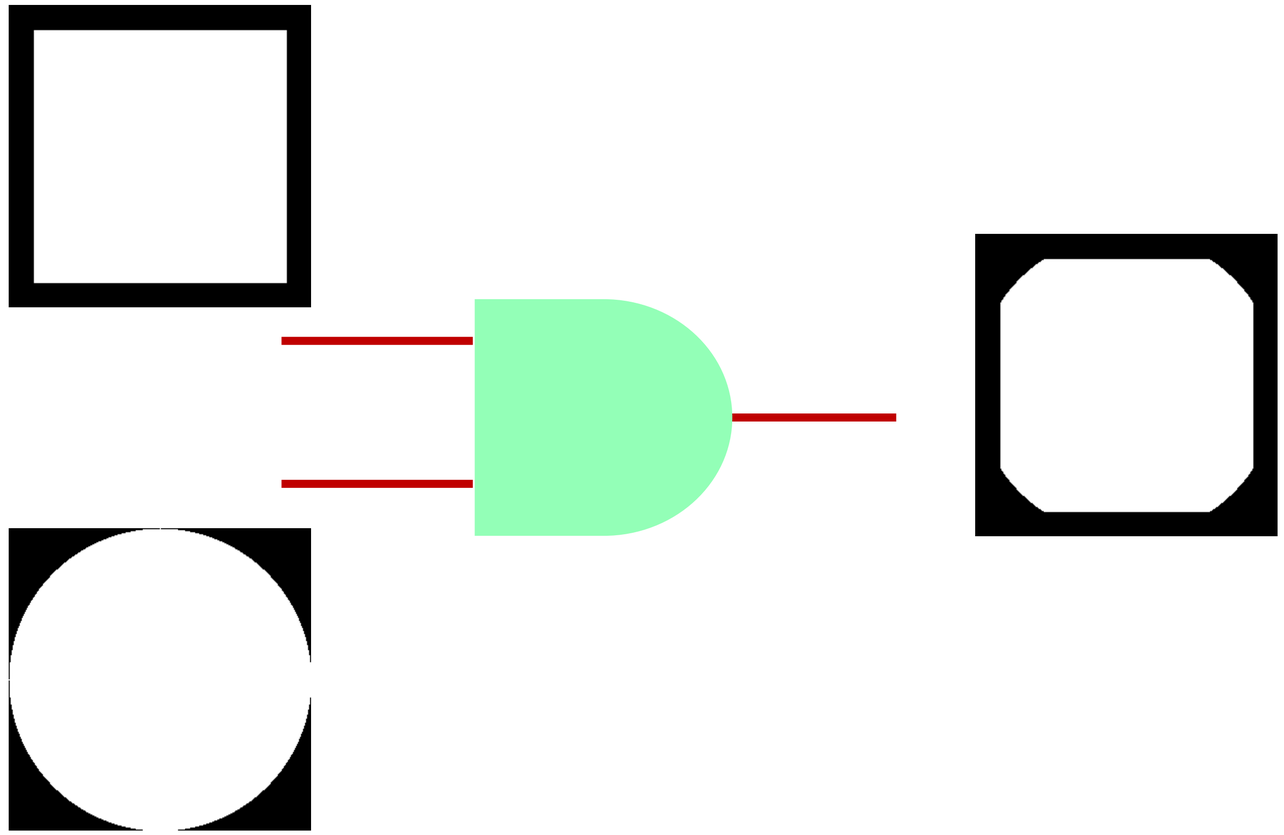


Intersection

Bitwise AND



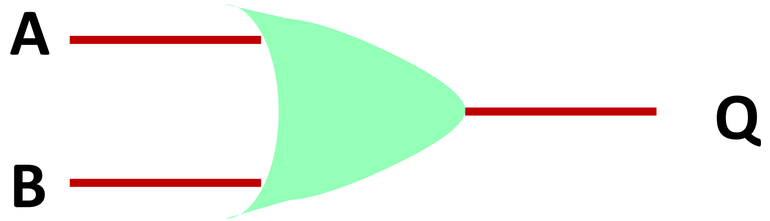
Bitwise AND



Logical OR

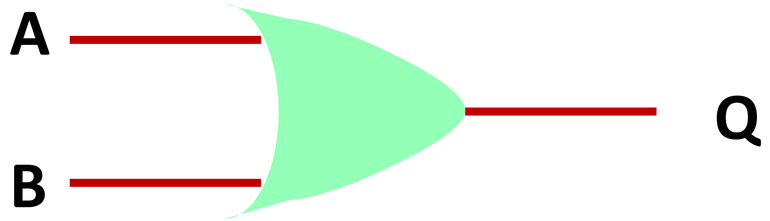
Bitwise Operations

Logical **OR**



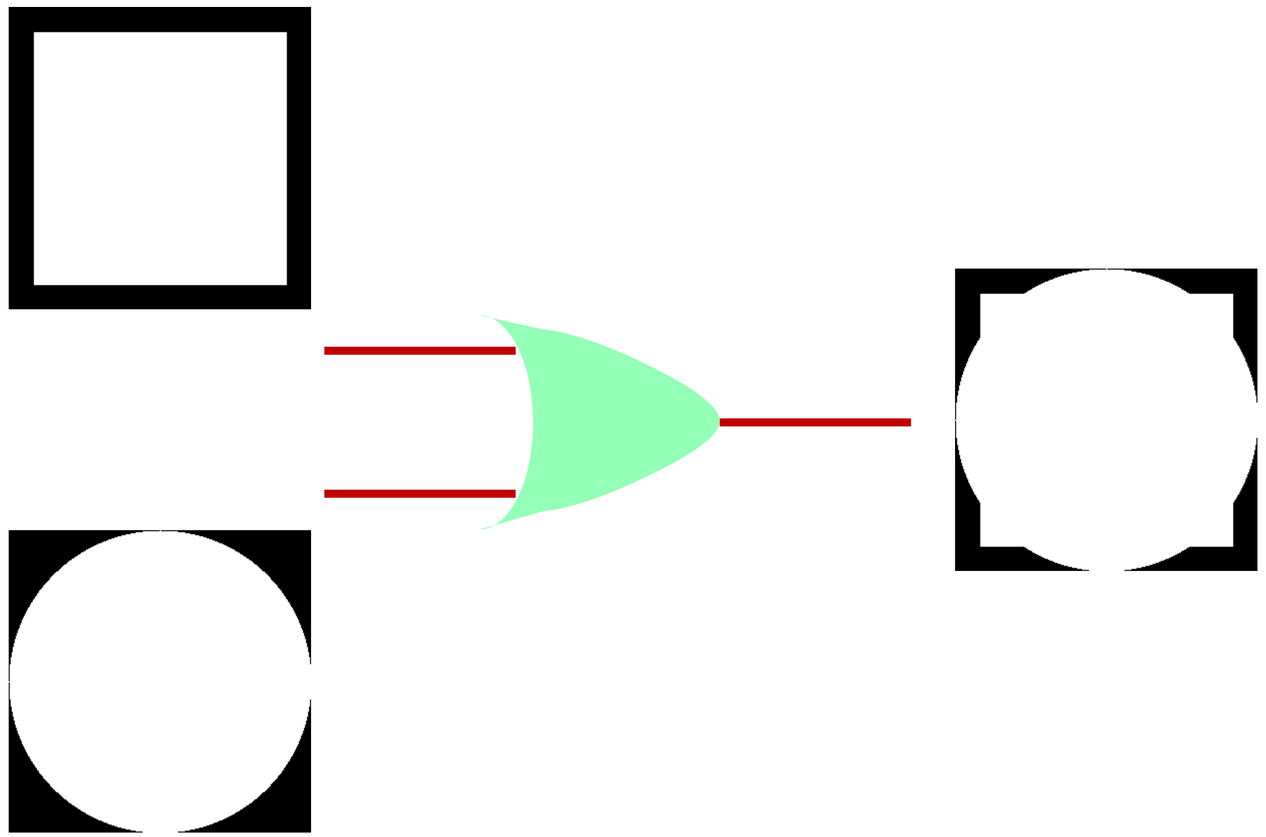
A	B	Q
0	0	0
0	1	1
1	0	1
1	1	1

Logical **OR** to an Image



Union

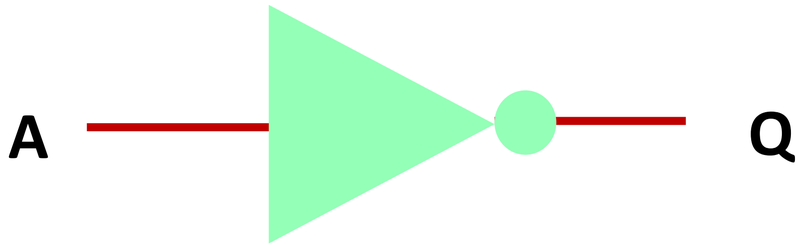
Bitwise OR



Logical NOT

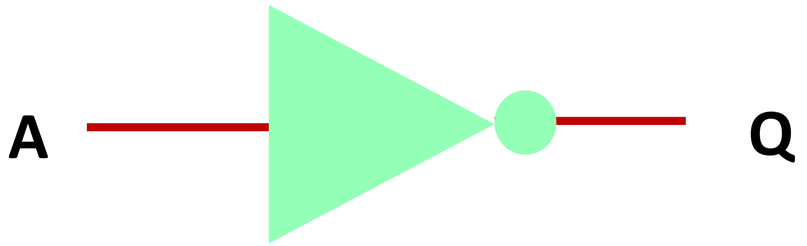
Bitwise Operations

Logical **NOT**



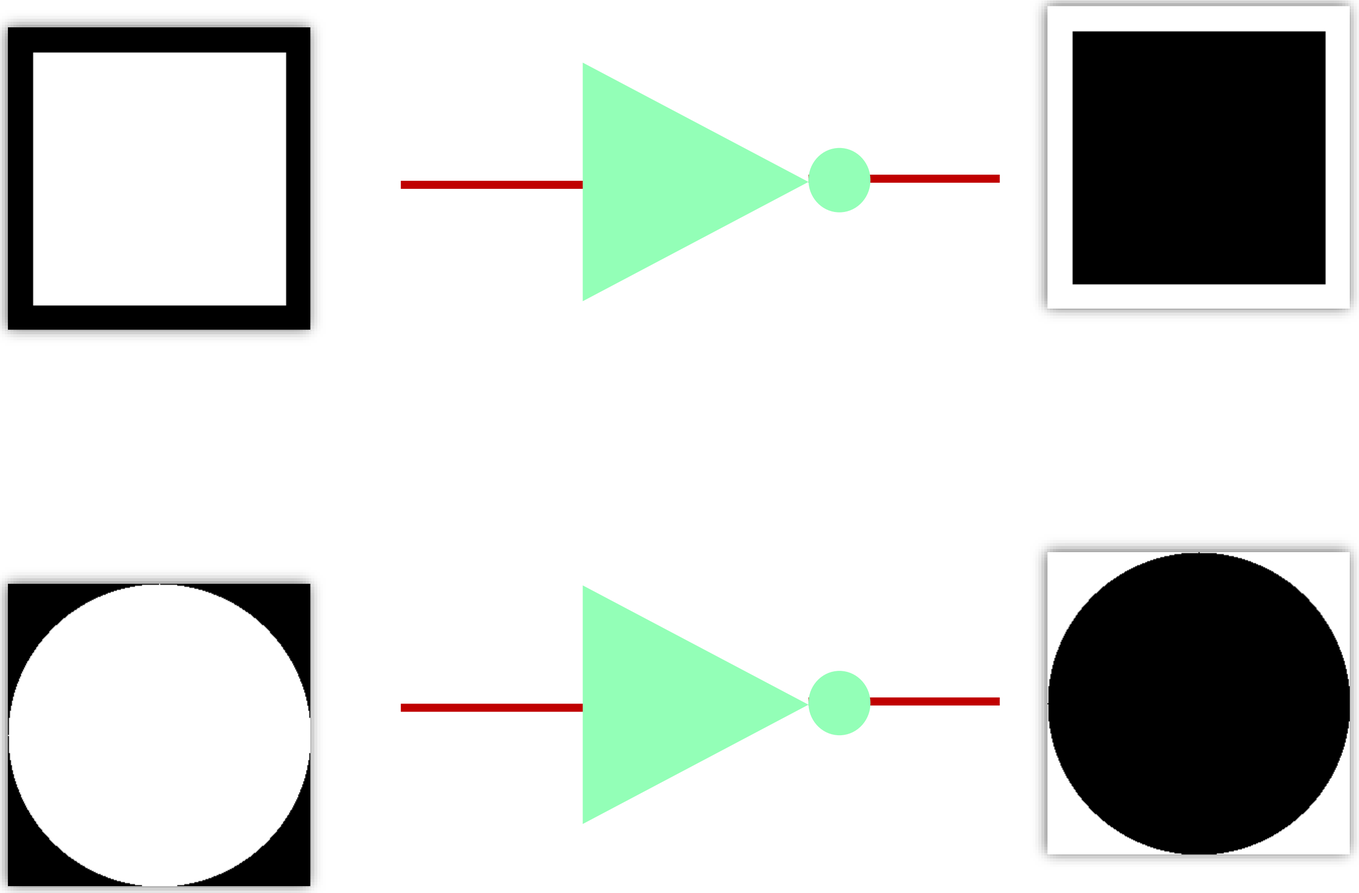
A	Q
0	1
1	0

Logical **NOT** to an Image



Complement

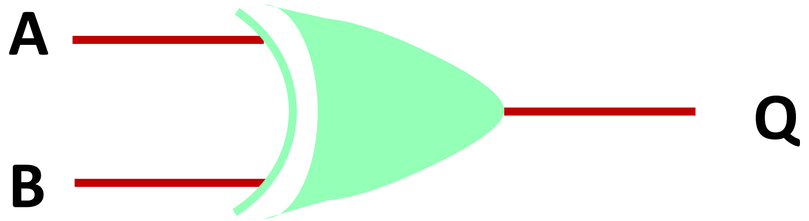
Bitwise NOT



Logical XOR

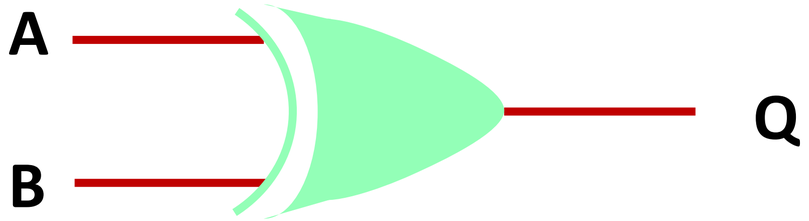
Bitwise Operations

Logical **XOR**



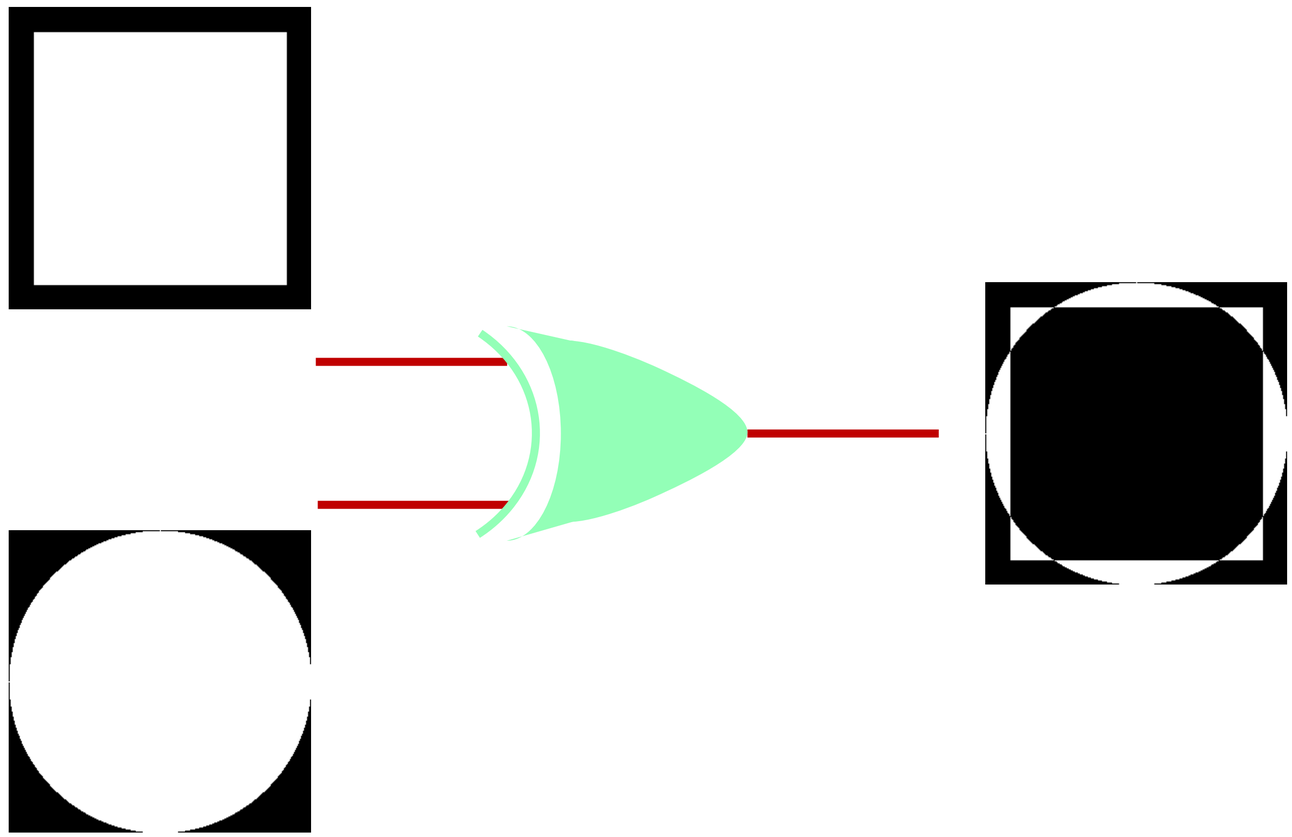
A	B	Q
0	0	0
0	1	1
1	0	1
1	1	0

Logical **XOR** to an Image



Exclusive Disjunction

Bitwise XOR



Next

Bitwise Operations in OpenCV Python