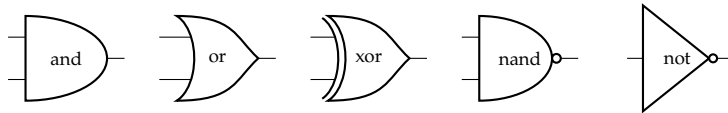


Boolean Logic Gates

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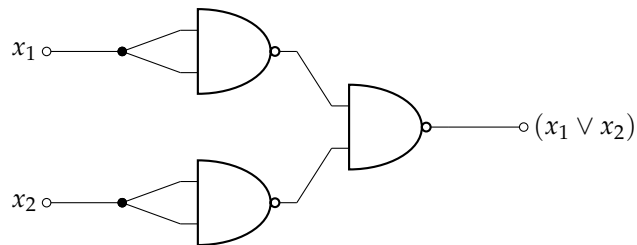
Gates



Tables

x_1	x_2	\wedge	\vee	\oplus	$\bar{\wedge}$	\bar{x}_1
0	0	0	0	0	1	1
0	1	0	1	1	1	1
1	0	0	1	1	1	0
1	1	1	1	0	0	0

Universal nand



Nand logic - wikipedia, 2023. URL
https://en.wikipedia.org/wiki/NAND_logic

x_1	x_2	$x_1 \bar{\wedge} x_1$	$x_2 \bar{\wedge} x_2$	$\bar{\wedge}$	$x_1 \vee x_2$
0	0	1	1	0	0
0	1	1	0	1	1
1	0	0	1	1	1
1	1	0	0	1	1

All Possible One-Bit Gates

$g_i : \{0,1\} \rightarrow \{0,1\}$

x	g_0	g_1	g_2	g_3
0	0	0	1	1
1	0	1	0	1

All Possible Two-Bit Gates

$$g_i : \{0, 1\}^2 \rightarrow \{0, 1\}$$

[illegible]