

Welcome to "Little Bits to Big Ideas"

Lab 2: Digital forensics and Digital Logic

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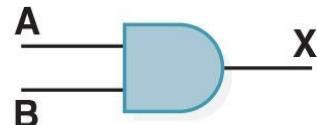
Logic Gates Recap

Overview:

- Fundamental building blocks of digital circuits
- Types of gates: AND, OR, NOT, XOR, etc
- How gates process binary inputs
- Truth tables and their role in logic circuit design

AND Gate

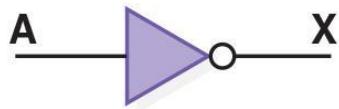
Logic diagram symbol



Truth table

A	B	X
0	0	0
0	1	0
1	0	0
1	1	1

Logic diagram symbol

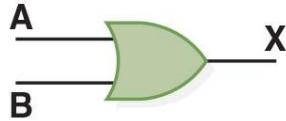


Truth table

A	X
0	1
1	0

NOT Gate

Logic diagram symbol

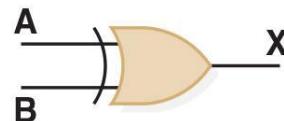


Truth table

A	B	X
0	0	0
0	1	1
1	0	1
1	1	1

OR Gate

XOR Gate



Logic diagram symbol

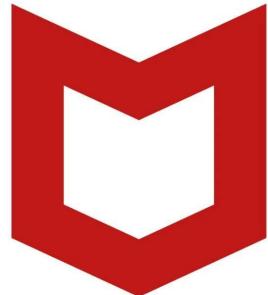
Truth table

A	B	X
0	0	0
0	1	1
1	0	1
1	1	0

Prefixes Recap

Decimal Prefix (SI)	Value	Value (1000)
kilo (K)	10^3 - thousand	1000
mega (M)	10^6 - million	1000^2
giga (G)	10^9 - billion	1000^3
tera (T)	10^{12} - trillion	1000^4
peta (P)	10^{15} - quadrillion	1000^5
exa (E)	10^{18} - quintillion	1000^6

Worksheet!



McAfee™

Articles

Who is John McAfee: Bold, Bizarre, and Bullish on Bitcoin



By Alex Moskov / Mar 20, 2020

Prime suspect in the murder of his neighbor in Belize. Was on the run from the government until....

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Worksheet!

MAT HONAN

GEAR DEC 3, 2012 5:02 PM

Oops! Did Vice Just Give Away John McAfee's Location With Photo Metadata?

After some Quiz practice problems, you'll explore a little bit of digital forensics.

