Boolean logic

IGCSE Computer Science · Vocabulary in context

Word	Example
Boolean logic /ˈbuːlɪən ˈlɒdʒɪk/	**Boolean logic** uses TRUE and FALSE. TRUE FALSE
logic gate /ˈlɒdʒɪk geɪt/	An AND gate is a **logic gate**. AND
truth table /truːθ ˈteɪbl/	A **truth table** shows the output for every input.
NOT gate /nɒt geɪt/	A **NOT gate** turns 1 into 0 and 0 into 1. 1 0 0 1
AND gate /ænd geɪt/	An **AND gate** outputs 1 only when both inputs are 1. 1 1
OR gate /ɔː geɪt/	An **OR gate** outputs 1 when at least one input is 1. 1 1
NAND gate /nænd geɪt/	A **NAND gate** is an AND gate followed by a NOT gate.
NOR gate /nɔː geɪt/	A **NOR gate** is an OR gate followed by a NOT gate.
XOR gate /ˈeksɔː geɪt/	An **XOR gate** outputs 1 when the inputs are different. 1
logic expression /ˈlɒdʒɪk ekˈspreʃn/	A **logic expression** such as A AND B describes a circuit. A AND B
logic circuit /ˈlɒdʒɪk ˈsɜːkɪt/	A **logic circuit** is made of logic gates.
problem statement /ˈprɒbləm ˈsteɪtmənt/	The **problem statement** says what the system must do.

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