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Logic From

Computer

Science

**Computer  
Science**

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What is Computer

*Page 3/31*

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~~Logic? Boolean Logic  
& Logic Gates:  
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programmer, for  
beginners ~~Programming  
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Gates, Truth Tables,~~

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*Boolean Algebra - AND,  
OR, NOT, NAND*

*∪0026 NOR Top 7*

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*Logic in Computer*

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~~Learned to Code~~ and  
~~Got a Job at Google!~~  
Inside your computer -  
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to become a software**

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and Logic Quantum*

*Computing for  
Computer Scientists*

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Every Software~~

~~Developer Should Read  
The Math Needed for  
Computer Science Early  
Computing: Crash  
Course Computer  
Science #1 Logic From  
Computer Science~~

Logic plays a  
fundamental role in  
computer science. Some  
of the key areas of logic



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## Logic From

that are particularly significant are computability theory (formerly called recursion theory), modal logic and category theory. The theory of computation is based on concepts defined by logicians and mathematicians such as Alonzo Church and Alan Turing.

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~~Logic in computer science - Wikipedia~~

Logic in computer science has to fulfil several tasks. First of all, it is a tool with which computer programs can describe the world. Logic is used for databases or for creating artificial...

~~Logic in computer science - Phys.org~~

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Boolean logic. Boolean is one of the main data types in computer.

Boolean logic reflects the binary logic of logic gates and transistors in a computer's CPU. Part of. Computer Science. Programming.

~~Boolean algebra~~  
~~Boolean logic GCSE~~  
~~Computer Science ...~~  
introductory logic

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Computer Science  
course can successfully go beyond what is usually considered to be the appropriate level. They are able to actually do proofs using the methods we teach and are surprised and challenged by the idea of several logics. We feel that this is because computer science, properly taught, makes the student of logic

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Logic From

easier, and vice versa.

Science

~~LOGIC FOR~~

~~COMPUTER SCIENCE~~

'This is an excellent textbook on logic and formal methods which is very suitable for computer science students... discusses the whole range from logic to applications: propositional and predicate logic,

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temporal logic and more  
generally model logic,  
program verification,  
model checking, and  
symbolic model  
checking using binary  
decision diagrams ...

~~Logic in Computer  
Science: Modelling and  
Reasoning about ...~~

Method: On the circuit  
diagram, add temporary  
letters after each gate

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## Logic From

(C, D, E in the above example) Create a blank truth table, allowing space for all the temporary letters (stages) Write into the truth table all the possible unique input combinations (A and B combinations in this example) In the truth table, calculate the output at each temporary letter,

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## Logic From

treating them as separate  
mini logic problems  
(e.g. D is the result of A  
OR B)

~~Logic Circuits~~  
~~Computer Science~~  
~~GCSE GURU~~

Boolean logic Boolean  
is one of the main data  
types in computer.

Boolean logic reflects  
the binary logic of logic  
gates and transistors in a



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Logic From

computer's CPU.

Science

~~Complex logic gates~~

~~Boolean logic GCSE~~

~~Computer ...~~

Logic gates In its most basic form, a computer is a collection of powered and unpowered circuits and transistors.

A logic gate is a series of transistors connected together to give one or more...

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~~Logic gates~~

~~Computing~~

~~fundamentals AQA~~

~~GCSE Computer ...~~

At the simplest level, computers are little more than a collection of transistors and circuits. They connect together to form logic gates, which in turn are used to form logic circuits.

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### Computer

~~AND gates~~

~~Computational logic~~

~~OCR GCSE Computer~~

...

The Logic Gates.

Inverses the current  
output, therefore

positive (1 or ON)

becomes negative (0 or

OFF), whilst negative (0

or OFF) would become

positive (1 or ON). Both

inputs have to be

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## Logic From

positive (1) before the output is also positive (1). At least one input has to be positive (1) to give a positive output (1 or ON).

~~Logic Gates - Computer  
Science GCSE GURU~~

Logic (from Greek:  
??????, logik?,  
'possessed of reason,  
intellectual, dialectical,  
argumentative ') is the

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## Logic From

Computer Science  
systematic study of valid rules of inference, i.e. the relations that lead to the acceptance of one proposition (the conclusion) on the basis of a set of other propositions (premises).

~~Logic~~ ~~Wikipedia~~

Logic in Computer Science Modelling and reasoning about systems? Errata for the

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First Printing of the  
Second Edition January  
21, 2009 Readers of this  
book are kindly  
requested to notify Mark  
Ryan (email:  
mdr@cs.bham.ac.uk) of  
errors they find. These  
will be included in this  
file, and incorporated  
into future printings of  
the book.

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Science—Birmingham

Mathematical Logic for  
Computer Science is a

mathematics textbook  
with theorems and

proofs, but the choice of  
topics has been guided  
by the needs of students  
of computer science.

The method of semantic  
tableaux provides an  
elegant way to teach  
logic that is both  
theoretically sound and

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## Logic From

easy to understand.

## Science

~~Mathematical Logic for~~

~~Computer Science:~~

~~Third Edition ...~~

A Boolean OR gate

works by the following

logic: If either input is

True, the output is True.

If both inputs are True,

the output is True.

Otherwise the output is

false. Scratch Example.

Challenge 2 – Can you



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## Logic From

work out the truth table  
for a Boolean OR gate?

~~Logic Gates – A Level  
Computer Science~~

From Logic to  
Computer Science From  
the point of view of a  
computer scientist, the  
book is entertaining but  
not much informative in  
theoretical terms. And  
that, of course, is not the  
point. For those with a

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more practical bent, like developers and engineers, this may be a small appetizer to other readings.

~~A Comic on Maths,  
Logic and Computer  
Science • Coder's  
Errand~~

Logic is the Calculus of  
Computer Science.  
Since Logic is involved  
in broad range of

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Computer Science  
intellectual activities and it is a base in many areas of computer science such as artificial intelligence, algorithms etc., the study of logic is essential for the computer science.

~~Why is logic important in computer science?~~

Quora

Adapted from

Foundations of Logic

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Logic From

and Mathematics:

Applications to Science  
and Cryptography ©

2002 Birkh?user, this  
second edition provides  
a modern introduction to  
the foundations of logic,  
mathematics, and  
computers science,  
developing the theory  
that demonstrates  
construction of all  
mathematics and  
theoretical computer

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## Logic From

Computer Science  
science from logic and set theory. The focus is on foundations, with specific statements of all the associated axioms and rules of logic and set theory, and provides ...

~~Logic, Mathematics,  
and Computer Science:  
Modern ...~~

Computer science is the study of computers and

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## Logic From

Computer Science  
computing as well as  
their theoretical and  
practical applications.

Computer science  
applies the principles of  
mathematics,  
engineering, and logic  
to a plethora of  
functions, including  
algorithm formulation,  
software and hardware  
development, and  
artificial intelligence.

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