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A digital circuit is often constructed from small electronic circuits called logic gates. Each logic gate represents a function of boolean logic. A logic gate is an arrangement of electrically controlled switches. The output is an electrical flow or voltage, that can, in turn, control more logic gates.

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Applications of circuit design. Digital logic circuit analysis and design form the base of computer engineering and electrical engineering. This system builds complex electronics circuits that use computational features such as power, logic functions, and user inputs. Hardware such as circuit boards microchips etc is developed using this design.

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We're talking about boolean logic aka digital logic. Boolean logic gets its name from George Boole who formulated the subject in his 1847 book The Mathematical Analysis of Logic. Boole defined an algebra (not shockingly, called Boolean Algebra) for manipulating combinations of True and False values.

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