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Softonic reviewDemonstrate how computers work with Digital Logic Sim. It is a minimalistic digital logic simulator where you begin with an AND and a NOT gate. The developer, Sebastian Lague, created this as a visualization tool for a video series he produced. It is an incredibly simple tool so anyone can use it - even non-tech-savvy users. The program is far from full-featured, powerful sims like Logisim, but it has all the essential tools for demonstrating basic digital logic.What is Digital Logic Sim? Digital Logic Sim is designed to demonstrate basic circuits. Whether you're a student, teacher, or hobbyist, it is an accessible tool that anyone can use. It allows you to dive right into making logic boards so, you will need to be familiar with gates and circuits before you start using this program. The simulator is presented on a clear, black page which represents your work station and is read from left to right.At the bottom of your screen are CREATE, AND, and NOT. CREATE lets the program know that you want to make a new circuit. AND and NOT are the logic gates provided by the simulator. These serve as the building blocks of your digital system. They can have multiple inputs, but they can only handle one output. AND gates means it requires at least two inputs to produce one out. The NOT gate only needs one input for one output. You can create more complex circuit boards as you progress; more gates will be added - such as OR, XOR, and ADDER - for you to use in future updates. This also means you need to increase your knowledge if you're unfamiliar with these gates. Logic, and truth tables as the program will not describe what these are for.Start learning the basics of computersAnyone that needs an accessible, easy-to-use logic simulator should definitely consider using Digital Logic Sim. It provides you with an opportunity to learn more about how computers work and how they recall commands with it. It also features a clean and easy-to-use interface. While the sim itself does not have a tutorial, a video series was made by the developer about the program and how it works.Neat and minimalist user interfaceUses click and drag systemGenerates its own gatesLacks in-program tutorialRequires knowledge of circuits and truth tablesDigital Logic Sim for Mac This article contains a list of Best Free Logic Gate Simulator Software For Windows. These freeware can be used by students, researchers, or anyone else to design and simulate logic gates for analysis or some other purpose. These free logic gate simulation software work in basically two steps, which are: Design: This is the first step where you have to draw your own circuit using logic gates. For this purpose, you can use components including input (switch, joystick, constant, etc.), output (LED, graphics array, buzzer, Hex display, etc.), connectors, and logic gates (basic, complex, derived). The number of inputs for a gate can vary too. All these provide text tool to add labels to each component for a visually appealing circuit diagram. Simulation: After designing the circuit, you can run logic gate simulation and view the output of a created logic circuit by varying input vectors. Many of these let you view digital signals in Oscilloscope window. You can also view truth tables of designed circuits, get minimized boolean expressions, check whether your design is correct, analyze circuit, view circuit statistics, and do more. You can export the logical circuit as JPEG, PNG, GIF, BMP, etc. images. You also get other digital components in these software, such as multiplexer, demultiplexer, adder, subtractor, divider, multiplier, register, counter, RAM, ROM, etc. So, you can also create complex digital circuits and simulate them in real-time. My Favorite Logic Gate Simulator For Windows: Logisim is my favorite logic gate simulator for Windows. It lets you design and simulate logic circuits and also views truth table, expression, and Product of Sums and Sum of Products simplifications. It also provides a variety of components to add to your logic circuit design, like multiplexer, demultiplexer, adder, subtractor, divider, and more. Logic Friday is another good free logic gate simulator and design and simulate logic gates. It provides all components to design a logic circuit using logic gates. These include input (button, joystick, keyboard, etc.), output (LED, hex digit display, etc.), wiring (splitter, probe, pin, tunnel, etc.), and gates (AND, OR, XOR, XNOR, NOR, etc.). Additional components provided in Logisim are multiplexer, demultiplexer, adder, subtractor, divider, multiplier, register, counter, RAM, ROM, etc. As you add a logic gate to your diagram, you can edit its attributes including number of inputs (maximum 32), label, label font, facing, data bits, etc. Let's checkout the simulation and analysis options you get in Logisim: If you have enabled simulation from Simulate menu, you can view circuit simulation live i.e. the value of output is displayed in real time. Other options in Simulate menu are Go Out To State, Go In To State, Tick Frequency, etc. Step Simulation is another feature which helps you find the points in an overall circuit whose value changes. You can use Analyze Circuit option from Project menu to see truth table, expression, and Product of Sums and Sum of Products simplifications. There is also a build circuit feature which builds a circuit for chosen expressions of an output. There is a Logging option too which helps you save log file with values of selected components in your circuit. You can view circuit statistics using the dedicated option from Project menu. Logisim is a good logic gate simulator software which lets you customize options related to simulation too, including iterations until oscillations, gate output when undefined, toolbar, mouse, etc. Logic Friday Logic Friday is another free logic gate simulator for Windows. You easily design and simulate logic gates using it. Let's see how. Design and simulate combinational logic circuit using logic gates: Go to File > New and select Gate Diagram. You can now design a logic circuit using multiple logic gates. You can add input, output, connector, 2, 3, and 4 input NAND, NOR, OR, and AND gates, inverters, 2 input XOR, and a 2-input multiplexer. After designing a desired combinational logic circuit, click on Submit button. As you do that, you will see output function and respective truth table of the created logical circuit. Using Gates menu, you can trace logic gates (shows the logic state of gates for chosen input vectors), IC package information, auto redraw gate diagram using built-in drawing engine, copy diagram to the clipboard, and do more. From the Operations menu, you minimize the boolean expression. The mode for the same can be Fast or Exact and for multiple outputs, you can select Independent or Joint minimization. Other tools contained in this menu include Map to Gate, Generate C Look Function, Clone Function, Compare Function, etc. The Equations menu is used to show sum of products, factored, product of sums, etc. equations for the selected function. Truth Table menu contains options like modify truth table, show True and Don't Care, show all rows, invert selected outputs, etc. Some other useful features of this free logic gate simulator: The gate diagram can be exported as EMF or BMP file or can be printed too. The truth table can also be saved (also opened) in CSV and TXT formats. You can enter a logic function and get respective truth table and vice-versa. Logic Friday is another great software which can be used by students to learn about logic gates easily. But, it has a limitation that it can be used for a maximum of 16 inputs and outputs. Deeds Deeds is another great logic gate simulator for Windows. Deeds stands for Digital Electronics Education and Design Suite which basically helps you learn about digital electronics working. Let's checkout the steps to use Deeds as a logic gate simulator: Gate Design: Firstly, you need to design a logic circuit using logic gates. For this, go to Circuit menu to see a sorted list of logic gate components and add desired components. You can insert inputs (switch, push button, hex digit, dip-switches), outputs (one bit, LED arrays, test LED, test points), wires, and logic gates (AND, OR, NAND, NOR, EXOR, NOT, etc.). Each individual logic gate can have a maximum of 8 inputs. And for each component, you can edit respective properties including label, initial value, etc. Advanced components to design a digital circuit include Decoder, Encoder, Multiplexer, Demultiplexer, Counters, Registers, Flip-Flops, etc. You can save the circuit design as an image (PNG, BMP) too. Simulation: After designing a combinational logic circuit using logic gates, go to Simulation menu and start the simulation. You will be able to view the output of the created circuit. It lets you enable or disable clock animation too. Also, you can vary the input vectors and check the respective output. There is a feature called Timing Diagram Simulation which can be used to trace signals, and the timing diagram can be saved as a PNG or BMP image. It also provides useful tools called Export VHDL (export to other design environment tools) and Test on FPGA (test created project on FPGA board). Deeds also provides some other design tools named Finite State Machine Simulator and Micro-Computer Emulator. You can learn about these tools in detail on its official website. Overall, Deeds is a great logic gate simulator with an easy-to-use interface. You also get Deeds demos and learning material to understand it better. Hades Hades is another free logic gate simulation software for Windows. Design and simulate logic gates in Hades: In order to simulate logic gates, just follow below steps: Open Hades and right click on the drawing area. You will see various options in the context menu, such as wire (connect, add probe, insert vertex, etc.), create, edit, etc. Simply choose the desired logic gate components from create option. You can add inputs, outputs, basic gates, and complex gates. As inputs and outputs, you can add switch, LED, hex display, clock generator, VCC, pullup, etc. Also, you can add components like flip-flop, RTL, etc. It also provides some demo circuits which you can utilize from Help > Demos option. The simulation of a designed circuit can be run from the bottom of the interface. The simulation can be customized by mode (VHDL, Real Time, Batch, etc.) and time. After creating a logic circuit, you can debug the circuit design and find out the errors in the diagram. There is also an option to correct highlighted errors, but it didn't work fine during my testing. You can export the logical circuit as JPEG, PNG, GIF, PPM, Postscript, etc. files. To view logic gates, you can enable instance labels, instance border, class labels, port labels, port symbols, bus port symbols, invert canvas, etc. Hades is a portable logic gate simulation software. Although it is a decent software, many of the features weren't working fine while my testing, such as performance statistics, print simulator status, etc. MultiMedia Logic MultiMedia Logic is yet another digital circuit simulation program. The main interface of this software is well categorized into various menus. So, you can easily design and simulate logic gates. Firstly, you need to go to Draw menu to add input (oscillator, switch, ground, plus, port in, signal receiver, timer, clock, keypad, etc.), output (LED, 8 segment LED, sound wave, signal sender, port out, bitmap, buzzer, etc.), wire, and logic gates components to design a combinational logic circuit. Or, you can use the tool palette provided by it to design a logic circuit. It lets you add up to 4 inputs to a particular logic gate. You get other components too to design a digital circuit, like multiplexer, memory, tape driver, etc. As you create a circuit, go to Simulate menu for live logic gate simulation. You can change input values and see the respective output. From Simulate > Setup, you can customize simulation rate and simulation conditions. MultiMedia Logic is a simple logic gate simulator. It is one of the easiest software for logic gate simulation. You can print the designed logic circuit. Also, you can customize font, color wires, etc. Logic Gate Simulator Logic Gate Simulator, as the name gives away, is a free and open source logic gate simulator for Windows. It comes with a variety of components to design a logic gate circuit and later simulate it. You get basic gates (NOT, AND, OR, Inverter), compound gates (NAND, NOR, XOR, XNOR), and input/output gates (user/numeric input, user/numeric output, clock period in ms, comment, etc.) to draw a logical circuit. Just drag and drop the components to the drawing window and create a desired logic gate design. You can add multiple inputs to a gate, connect components using wire, rename components, etc. to further customize logic gates. It shows real-time simulation of logic gates as you vary input vectors. Also, you can use Show Logical Analyzer button to view logic gate simulation in oscilloscope form with input and output signals. Logic Gate Simulator is a nice and intuitive logic gate simulation software. It lets you print designed circuit, save circuit as an image (PNG, BMP, JPEG), create IC, import IC, flatten circuit, and do more. Logical Circuit Logical Circuit is another one of logic gate simulator software in this list. Using it, you can design a logic circuit using inputs, outputs, basic logic gates, and memory components. As inputs and outputs, you can add pin, button, constant, sensor, clock, LED, LED matrix, splitter, graphics array, buzzer, probe, etc. In addition, you can edit properties of input/output components, such as description, bit width, side, notation, name, etc. For logic gates, you can add up to 18 inputs to each. You can also add text notes to your circuit design. After designing a logic circuit, you can check a project report with circuit description and functions. Also, it lets you view truth table of the corresponding logic circuit. You can use Tools > IronPython Console option to test your circuit. Check here for syntaxes to use scripts in logic circuits. By switching power on from Circuit menu, you can view actual frequency by running the circuit at maximum speed. The designed circuit can be exported as an image in PNG, GIF, BMP, JPEG, or TIFF format. Logical Circuit is a multilingual logic gate simulator. Apart from English, it supports German, Spanish, Greek, Italian, Korean, Chinese, etc. languages. Also, you can customize gate shape (rectangular, shaped), save changes automatically, etc. preferences. CEDAR Logic Simulator CEDAR Logic Simulator is another option as a logic gate simulator for Windows. It has a nice and easy user interface and is recommended for beginners. The components to design logic circuit are available in the left pane of the interface. These include basic gates, inverter & connector, input and output, MUX and decoder, Flip Flops, etc. Just drag and drop a component to editing area and design your own circuit using logic gates. It shows the real-time simulation of logic gates. You can pause the simulation from its toolbar and change the simulation speed too. After creating the design, you can use the View > Oscope option to view single value propagation throughout the designed circuit (see screenshot). It lets you export circuit design as a Bitmap image. CircuitMod CircuitMod is a free circuit simulator software for Windows. It can be used to create simple as well as complex circuits with a wide range of components including passive filters, diodes, transistors, MOSFET, combination logic, resistors, capacitors, etc. It shows live circuit simulation by unchecking Stopped box from the right panel. You can adjust simulation speed too from there. To create combinational logic gates, simply go to Circuit menu and choose logic gates to include in your circuit design. You can add input, output, wires, logic gates, and other essential components. As you create a circuit, you will be able to view its output. It lets you change the input values to high or low and you can set the respective input voltage value. Digital Logic Design Digital Logic Design is yet another free and portable logic gate simulator software. Simulating logic circuits in this software is quite easy. The components like input and output, basic gates, and derived gates are present on its toolbar. Just drag and drop the components to its editing window and prepare your circuit design. After that, you can run a simulation using the dedicated tool from its toolbar. You can view digital signal in a separate oscilloscope window too. It also lets you design a circuit using other components including adder, subtractor, encoder, decoder, Mux, Demux, etc.





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