

Difference between Analog and digital circuits →

Analog means 'continuous'. The analog circuits function on the continuous variable signals. It is typically termed as analog signal.

Digital means 'discrete'. Digital circuit perform on discrete variable signals which are typically termed as digital signal. In the digital signal there are only two state, one is low or off - 0-state and other is high or on - 1-state.

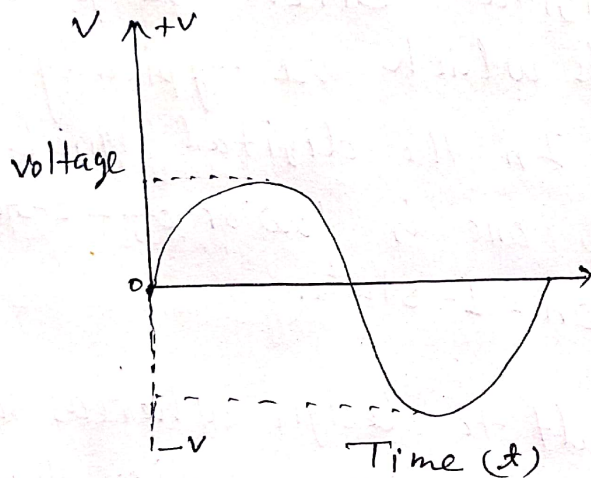
Analog circuit are difficult to design, whereas the design of digital circuit are relatively easier than analog circuit.

The analog circuit can accept all the analog data of physical world. on the other hand digital circuit can accept only the digital data. therefore, digital circuit can not accept the data from the physical world. before accepting the data can be converted into digital signal only.

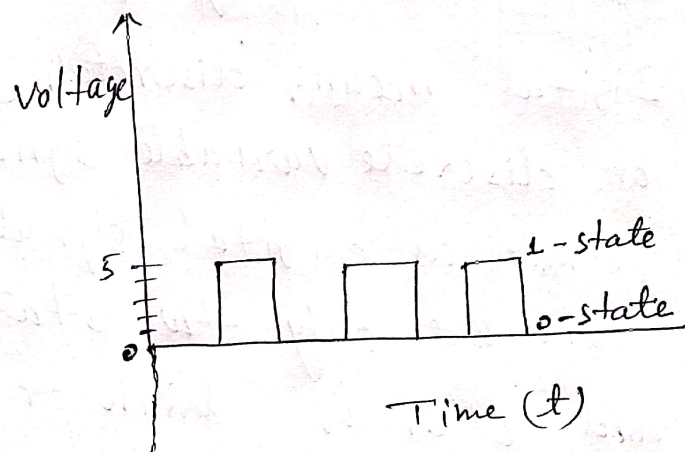
The designing of analog circuit is expensive whereas the designing of digital ~~cir~~ circuit is less expensive.

The accuracy and precision of digital circuit are better than analog circuit.

Analog circuit are complex and large space are needed, whereas the digital circuit are simple and needed low space.



Analog circuit



Digital circuit

Binary Number → A binary number is a number in the base-2 numeral system, using only two digits, 0 or 1, to represent values. Which is the fundamental language of computers and digital devices. Each digit is called a 'bit' and the system works by assigning values based on powers of 2.

Ex

Decimal number - 3

Binary number is (11) which is equivalent to decimal number - 3