## Logic Gates

## Overview

This page gives a brief description of the principal logic gates, a detailed description will be found in Wikipedia by clicking on each of the images. A more detailed overview is in Wikipedia here.

## AND

Boolean operator which is used to join two statements so that the final statement is
true only if the individual statements are all true. Thus $(X>1) \operatorname{AND}(X<2)$ is true if $X$ is
between 1 and 2 .

## OR



Boolean operator which is used to join two statements so that the final statement is $B \longrightarrow$ Qtrue if either of the individual statements are true.

## NAND



## NOR



## XOR



## NOT

 In digital logic, an inverter or NOT gate is a logic gate which implements logical negation.

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