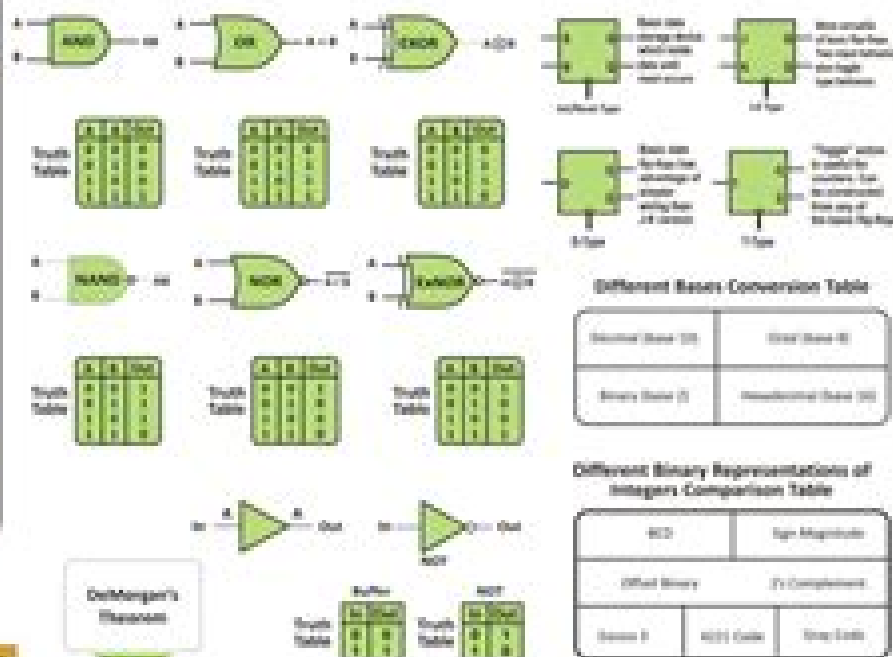




Logic Devices Families

The types of logic devices are classified in "families", of which the most important are TTL and CMOS. The main families are :

- TTL (Transistor-Transistor Logic) made of bipolar transistors.
- CMOS (Complementary Metal Oxide Semiconductor) made from MOSFETs
- ECL (Emitter Coupled Logic) for extremely High speeds.
- NMOS, PMOS for VLSI large scale integrated circuits.



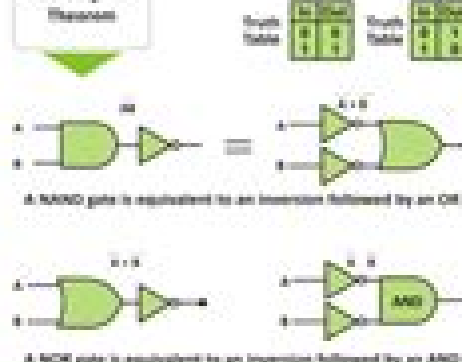
Binary Function of Two Variables

1.	Null	0
2.	AND	AB
3.	A AND NOT B	$A\bar{B}$
4.	NOT A AND B	$\bar{A}B$
5.	Exclusive OR	$A\oplus B$
6.	OR	$A+B$
7.	NOT OR	$\overline{A+B}$
8.	Exclusive NOR	$\overline{A\oplus B}$
9.	Not B	$\bar{B}$
10.	A OR NOT B	$A+\bar{B}$
11.	NOT A	$\bar{A}$
12.	NOT A OR B	$\bar{A}+B$
13.	NOT A AND B	$\bar{A}B$
14.	IDENTITY	1

Rules of Digital Logic

$A+B = B+A$; $AB = BA$; $A+B+C = A+(B+C)$; $AB = A(B+C)$	AND, OR are commutative
$A+B = B+A$; $AB = BA$	AND and OR operations are commutative
$A+B = (A+B)C$; $AB = A(B+C)$	Rules of the distributive property
$A\bar{A} = 0$; $A\bar{A} = 1$	A form of DeMorgan's Theorem
$A\bar{A} = A$; $A\bar{A} = 1$	A form of DeMorgan's Theorem
$A\bar{A} = A$; $A\bar{A} = 1$; $A\bar{A} = 1$	Single variable Theorems
$A\bar{A} = 1$; $A\bar{A} = 1$; $A\bar{A} = 1$	More two variable Theorems
$A\bar{A} = 1$; $A\bar{A} = 1$; $A\bar{A} = 1$; $A\bar{A} = 1$	Identity and null operations

DeMorgan's Theorem



IC Series Designation

TTL Series	Profile	CMOS Series	Profile
Standard TTL	74	Metal gate CMOS	4000 or 4000
High Speed TTL	74H	Metal gate, pin-compatible with TTL	74C
Low Power TTL	74L	Silicon gate, pin-compatible with TTL, high speed	74HC
Schmitt TTL	74S	Silicon gate, high speed, pin-compatible with TTL	74VHC
Low power Schmitt TTL	74LS	Silicon gate, high speed, pin-compatible with TTL	74VHC
Advanced Schmitt TTL	74ALS	Silicon gate, high speed, pin-compatible with TTL	74VHC
Advanced low power Schmitt TTL	74ALS	Silicon gate, high speed, pin-compatible with TTL	74VHC

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Michal Rosen-Zvi



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