

BINARY REFERENCE

CS Cheat Sheet • 4-Bit & 8-Bit Basics

DECIMAL	BINARY (4-BIT)	HEX
0	0000	0
1	0001	1
2	0010	2
3	0011	3
4	0100	4
5	0101	5
6	0110	6
7	0111	7
8	1000	8
9	1001	9
10	1010	A
11	1011	B
12	1100	C
13	1101	D
14	1110	E
15	1111	F

POWER	VALUE	STORAGE
2^0	1	1 Bit
2^1	2	-

POWER	VALUE	STORAGE
2^2	4	Nibble (4)
2^3	8	-
2^4	16	-
2^5	32	-
2^6	64	-
2^7	128	Byte (8)
2^8	256	-
2^{10}	1,024	1 KB
2^{20}	1,048,576	1 MB

Bit Positioning (Little Endian)

128 64 32 16 8 4 2 1
 [0] [0] [0] [0] [0] [0] [0] [0]