Nibble mnemonics

0	0b0000	0x0	-
1	0b0001	0x1	-
2	0b0010	0x2	-
3	0b0011	0x3	-
4	0b0100	0x4	$_{0b}1000_2 = 2^2 = 4$
5	0b0101	0x5	
6	0b0110	0x6	
7	0b0111	0x7	

8	0b1000	0x8	$_{0b}1000_2 = 2^3 = 8$
9	0b1001	0x9	-
10	0b1010	0xa	
11	0b1011	0xb	
12	0b1100	0xc	
13	0b1101	0xd	
14	0b1110	0xe	
15	0b1111	0xf	

A nibble is a 4-bit value between 0 and 15. It can be represented using four binary digits (0b0000 to 0b1111) or one hex digit (0x0 to 0xf).

A byte is an 8-bit value between 0 and 255. It can be represented using eight binary digits (0b00000000 to 0b11111111) or two hex digits (0x00 to 0xff).