

FROM LAST TIME:

COUNTING IN BINARY:

Hexadecimal

thirty sixteens eights fours twos ones
seconds

zero: 0000	0	nine: 1001	9
* one: 0001	1	→ ten: 1010	A
two: 0010	2	eleven: 1011	B
→ * three: 0011	3	twelve: 1100	C
four: 0100	4	thirteen: 1101	D
→ five: 0101	5	fourteen: 1110	E
six: 0110	6	* fifteen: 1111	F
* seven: 0111	7	sixteen: 10000	
eight: 1000	8		

Hex to Binary:

$$3A5_{hex} \rightarrow 0011\ 1010\ 0101_{bin}$$

$$\rightarrow 3(256) + 10(16) + 5(1) = 933$$

$$1 + 4 + 32 + 128 + 256 + 512 = 933$$