## · Decimal -> Binary

•27<sub>10</sub>= 
$$27/2 = 1$$

$$13/2 = 1$$

$$6/2 = 0$$

$$3/2 = 1$$

$$12/2 = 1$$

$$11011 = 0001 1011$$

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$$001010_{2} = 1x2' + 1x2^{3} + 1x2^{5} = 4210$$

$$= 101 = 587 528$$

$$= 2A_{16}$$
Aayc = 0-728-1=256

$$\frac{1111}{3} \frac{1100}{7} + \frac{00000000}{00000} = 400$$

$$= 3748$$

$$= C_{10}$$

$$= 127$$

A= 1110 1000

$$F: nd -A:$$
 $+\frac{1}{0001 1000} = 1 \times 2^{4} + 1 \times 2^{3} = 24_{10}$ 

A= 1010b  $A + B = 0011$ 

B= 0011b  $A + B = 0011$ 
 $A + B = 0011$ 

· Decimal Fraction to Binary

0.47 -> binary 3.703125,0 -> Binary 
$$3/2 = 1$$
 0.703125  $\times 2 = 1.40625 = 1$  0.94  $\times 2 = 1.88$  1  $1/2 = 1$  0.40625  $\times 2 = 0.81205 = 0$  0.88  $\times 2 = 1.76$  1 1. 0.81205  $\times 2 = 1.6241 = 1$  0.2482 = 0.4964=0 0.47  $\times 2 = 1.9856 = 1.9856 = 1.9856 = 1.995$