

Numeral Systems

DECIMAL	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones
	10^7	10^6	10^5	10^4	10^3	10^2	10^1	10^0
				4	2	4	2	0

BINARY	one twenty eights	sixty fours	thirty twos	sixteens	eights	fours	twos	ones
	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0
	0	0	1	0	1	0	1	0

HEXADECIMAL				65,536's	4,096's	256's	16's	ones

	16^7	16^6	16^5	16^4	16^3	16^2	16^1	16^0
						3	8	f

0,1,2,3,4,5,6,7,8,9,a,b,c,d,e,f

base64					262,144's	4096's	64's	ones
	64^7	64^6	64^5	64^4	64^3	64^2	64^1	64^0

BINARY	128's	sixty fours	thirty twos	sixteens	eights	fours	twos	ones
	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0
	0	0	0	0	0	0	0	0

BINARY		...	1,048,576's	...	2048's	1024's	512's	256's
		...	2^{20}	...	2^{11}	2^{10}	2^9	2^8
						1	0	0