Jorge Rubi 6-Jul-18

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Number Systems	Base #'s			
Integers	base 2	base 8	base 10	base 16
123 base 10	00110111	67	/	37
10101 base 2	/	25	21	13
123 base 8	001010011	/	83	53
123 base 16	000100100011	443	291	/
	Scientific Notation			
Integers	base 2	base 8	base 10	base 16
123 base 10	$0x2^7 + 0x2^6 + 1x2^5 + 1x2^4 + 0x2^3 + 1x2^2 + 1x2^1 + 1x2^0$	$6x8^{1}+7x8^{0}$	/	$3x16^{1}+7x16^{0}$
10101 base 2	/	$2x8^{1}+5x8^{0}$	$2x10^{1}+1x10^{0}$	$1x16^{1}+3x16^{0}$
123 base 8	$0x2^8 + 0x2^7 + 1x2^6 + 0x2^5 + 1x2^4 + 0x2^3 + 0x2^2 + 1x2^1 + 1x2^0$	/	$8x10^{1}+3x10^{0}$	$5x16^{1}+3x16^{0}$
123 base 16	$0x2^{12} + 0x2^{11} + 0x2^{10} + 0x2^9 + 1x2^8 + 0x2^7 + 0x2^6 + 1x2^5 + 0x2^4 + 0x2^3 + 0x2^2 + 1x2^1 + 1x2^0$	$4x8^2 + 4x8^1 + 3x8^0$	$2x10^2 + 9x10^1 + 1x10^0$	/