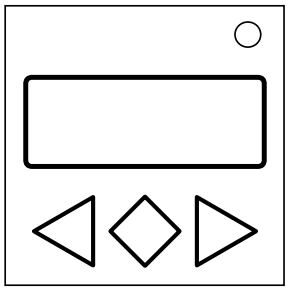
On the Subject of Creating Coordinates



Coordinate creation causes confusion commonly.

Table 1: grid size formats

Format	How to interpret											
n	**9**	3×3	**15**	5×3	**21**	7×3	**25**	5×5	**35**	7×5	**49**	7×7
(*n*)	**9**	3×3	**15**	3×5	**21**	3×7	**25**	5×5	**35**	5×7	**49**	7×7
w*×*h	*w* is the width, *h* the height of the grid.											
h* by *w	*h* is the height, *w* the width of the grid.											
***n**h**	*n* is the total size of the grid, *w* = *n* ÷ *h*.											
n* : *w	*n* is the total size of the grid, *h* = *n* ÷ *w*.											

Table 2: grid location formats

[*c*,*r*]	Top-left is [0,0].	***c r*** *letter number*	Top-left is A1.
<*r*, *c*>	Top-left is <0, 0>.	***r*, *c***	Top-left is 1, 1.
(*c*,*r*)	Bottom-left is (0,0).	***c*–*r*** *letter–number*	Bottom-left is A-1.
"*r*, *c*"	Bottom-left is "0, 0".	***r*/*c***	Bottom-left is 1/1.
[*x*]	Traverse right then down[1]; Top-left is [0].	***x*th**	Traverse right then down[1]; Top-left is 1st.
#x	Traverse right then up[2]; Bottom-left is #1.	四十七	Traverse down then left[3]; top-right is 一.

Table 3: Chinese numerals

一	1	二	2	三	3	四	4	五	5
六	6	七	7	八	8	九	9	十	10

[1] Scanline order, also known as reading order, starts at the top-left, moves right across the row, and then continues likewise with each row from top to bottom.

[2] Cartesian order, also known as geometric order, starts at the bottom-left, moves right across the row, and then continues likewise with each row from bottom to top.

[3] Traditional Chinese reading order starts at the top-right, moves down the column, and then continues likewise with each column from right to left.