

Creating a scatter plot using data entered in a list (Tutorial C2)

http://www.atomiclearning.com/k12/en/movie/27958/play_window?type=Tutorial&sid=1670

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To create a scatter plot using data entered in a list, first insert the Lists & Spreadsheet application into a new page by pressing

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the Home key, and then choosing Lists & Spreadsheet. Next, I'll use the NavPad to highlight the white space just to the right

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of the letter A at the top of column A. I'll type "x" "c" "o" "o" "r" "d" and then press Enter. This defines any values I enter into

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column A as a list linked directly to the variable called "xcoord," which includes the x-coordinate values. Note that if you just

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watched the previous movie and entered the data along with that tutorial, the data auto-populates in your new Lists & Spreadsheet

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column. Now, I'll name column B "ycoord" using the same technique. First by highlighting the white space to the right of the letter

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B, and then typing "y" "c" "o" "o" "r" "d," followed by the Enter key. I have a series of coordinates to enter. I'll enter the x

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coordinates in column A, and the y coordinates in column B. Remember that you can pause this movie at any time while you enter the

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data. Let's start with the x-coordinates, pressing Enter after you type each number. I'll manually enter in 0.5, 1.5, 2, 6, 8,

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15, 19, and 45 into column A. Next, I'll go up to cell B1, and then enter "0". Notice that the y-coordinates increase by 10 every

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time. To save myself from typing, I'll express each coordinate as a function of the coordinate preceding it. To do this, in cell

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B2 I'll type "=" and then "b1," then "+10". The full cell formula now reads "=b1+10". Now, I'll press the Menu key, and then choose

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Data followed by the Fill Down command. Next, I'll just use the NavPad to highlight the cells through cell B8, and then press

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Enter. Notice that the values have been populated all the way through 70. I'll insert a new page with the Graphs & Geometry

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application in it by pressing the Home key, and then choosing Graphs and Geometry. Next, I'll switch the graph mode to scatter

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plot by pressing Menu, and choosing Graph Type, and then Scatter Plot. Now I'll highlight the x drop down menu if it's not already

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highlighted by pressing the Tab key and then I'll choose "xcoord" which is what I named column A in my Lists & Spreadsheet application

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by pressing Enter, highlighting the "xcoord" by using the NavPad, and pressing Enter again. Now, I'll open the y drop down menu

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by pressing Tab to highlight it, and I'll choose "ycoord" by pressing Enter. Then using the arrow keys on the NavPad to highlight "ycoord"

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which is what I named column B in my Lists & Spreadsheet application, and then pressing Enter again. Immediately I can see some points

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have been plotted on my graph, because of the graph's current scale, however, I'm unable to see them all. To quickly readjust



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my graph scale to include all my coordinates, I'll press Menu and then choose Window, followed by the Zoom-Data view. Now, I

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can see all my points in this work area.

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