

Creating variable bin widths in a histogram (Tutorial D6)

http://www.atomiclearning.com/k12/en/movie/92863/play_window?type=Tutorial&sid=2410

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The rectangles in a histogram represent the frequency, or number, of observations that fall within the range each

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rectangle covers. By default, bin widths are equal, but you can vary the bin width for a histogram from the default

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using histogram properties. You will need to create a list that will define the classes for the histogram in the Lists

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Spreadsheet application. In this example, the list in column A, "age," is the list that defines my histogram, a list

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of the ages of participants in a neighborhood survey, and the list in column B, "bounds," defines the classes, which

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I've grouped for kids under 10, then in bins of 5 until age 40, and then every age over 40. Insert the Data & Statistics

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application. I'll roll over the x-axis, click, and select my list from column A, "age." I'll press menu, then Plot

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Type, Histogram. Now to switch to variable bin widths, press menu and select Plot Properties, Histogram Properties, Bin

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Settings, Variable Bin Width. The Variable Bin Width Settings dialog box will appear and you can select the name of the

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list that you created to define the classes. Now I'll click OK. Note that the final number in your bin boundaries is



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not inclusive. You must make sure that all data points belong to a class. To see the range over the top of a bin,

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roll over it, and then press the Click key to show it.

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