TI-Nspire™ Software Script

Creating a Frequency Plot (Tutorial D5)

http://www.atomiclearning.com/k12/en/movie/75374/play_window?type=Tutorial&sid=1670

[00:00:00.00]
You can enter and analyze frequency data using Data & Statistics.
First, let's enter our data into Lists & Spreadsheet by

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pressing Home > Lists & Spreadsheet to create a new page.
I'll use the Navpad to highlight the cell at the top of

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column A to select it, and then I'll type "c-o-l-o-r" to
name the data in this column "color." Once that's been

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entered, press Enter. Next, I'll move to the cell at the
top of column B to select it, and type "f-r-e," to stand

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for "frequency," followed by the Enter key. We did a survey
in class of what everyone's favorite color is out of a

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choice of red, green, blue, or other. Let's enter that
data first, by moving to cell A1, and then typing "red,"

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followed by the Enter key. Putting the data in quotation
marks will make sure the handheld knows it's categorical

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data. Now I'll type "green," and then press Enter. Then
"blue" followed by Enter. And finally, "other" and then

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the Enter key. Next, I need to enter in how many times
each color was mentioned;this is the frequency of each

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color. Six people in class said the color red was their
favorite, so I'll move to cell B1 and then type "6," followed

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by Enter. Eight people liked green best, so I'll type "8"
and then press Enter. Seven people said blue was their

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favorite color, so I'll type "7" and then Enter. Three
people like a color other than red, green, or blue best,

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so I'll type "3" and press Enter. Note that when you're
entering frequencies, empty cells are truly considered

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empty cells with no data, and will not be considered as
having a value of zero. Now let's look at this data graphically

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using the Data & Statistics application. I'll use the Navpad
to highlight the cell at the top of column A that currently

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says "color." Then I'll press the up arrow key to highlight
the whole column. I need to select both columns, though,

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so next I'll press Shift and then the right arrow key so
that both are highlighted. I'll press Menu > Data > Frequency

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Plot to bring up the Frequency Plot dialog box. Using the
drop-down menu I'll choose "color" for the data list by

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pressing the down arrow to open the menu, highlighting
the word "color," and then pressing the Click key. Then

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I'll press the Tab key to move to the Frequency List drop-
down menu, press the down arrow to open the menu, and then

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I'll choose "fre" followed by the Click key to select it.
Press Tab again. The Display On field determines where

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the new Data & Statistics application will be inserted.
I want a side-by-side view so that I can see both the data

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we entered and the graph, so I'll set it to Split Page,
and then Press Enter. Because my Data List is words, and

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not numbers, I can see my data represented as a bar chart.
If they were numbers, I would see a histogram. I can now

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analyze my data graphically using the frequency list and
bar chart.

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