TI-Nspire™ Handheld Script

Creating a summary plot (Tutorial D5)

http://www.atomiclearning.com/k12/en/movie/85862/play_window?type=Tutorial&sid=2410

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You can enter and analyze summary data using Data & Statistics.
First, let's enter our data into Lists & Spreadsheet by

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pressing Home, then Lists & Spreadsheet to create a new
page. I'll use the Touchpad to highlight the cell at the

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top of 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

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been entered, press the Enter key. Next, I'll move to the
cell at the top of column B to select it, and then type

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f-r-e," to stand for "frequency," followed by the Enter
key. We did a survey in class of what everyone's favorite

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color is, out of a choice of red, green, blue, or other.
Let's enter that data first, by moving to cell A1. I'll

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press Control and the multiplication key to insert quotation
marks. Next, I'll type "r-e-d," followed by the Enter key.

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Putting the data in quotation marks will make sure the
software knows it's categorical data. Now I'll type "g-

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r-e-e-n," and then press Enter. Then "b-l-u-e" followed
by Enter. And finally, "o-t-h-e-r" and then press the Enter

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

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

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

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so I'll type "7" and then Enter. Three people like a color
other than red, green, or blue best, so I'll type "3" and

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press Enter. Note that, when you're entering frequencies,
empty cells are truly considered empty cells with no data,

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and will not be considered as having a value of zero. Now
let's look at this data graphically using the Data & Statistics

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application. I'll use the arrows on the Touchpad to highlight
the cell at the top of column A that currently says "color.

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Then I'll press the Up Arrow key to highlight the whole
column. I need to select both columns, though, so

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I'll press Shift and then the Right Arrow key so that both
are highlighted. I'll press the Menu key, choose Data, then

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Summary Plot to bring up the Summary Plot dialog box. Using
the drop- down menu, I'll choose "color" for the Data List

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by pressing the right arrow to open the menu, highlighting
the word "color", and then pressing the Click key. I'll

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press the Tab key to move to the Summary List drop-down
menu, press the right arrow to open the menu, and then

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

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where 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 the Enter key. Because my Data List is words,

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and not numbers, I see my data represented in 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 summary list and
bar chart.

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