

The Column Statistics Window

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SigmaPlot automatically calculates a number of basic statistical values for all the data in your worksheet. and displays them in the *Column Statistics*.

These values are updated whenever you change a value in your *data worksheet*.

To open the Column Statistics window, select “View Column Statistics” from the Worksheet ribbon, or press the function key F6.

1. Overview of your data

You can use it for an overview of your data set, e.g. to identify outliers or implausible values. Select Worksheet > View Column Statistics, or press F6.

	1-X Data	2-Box Widths	3-Data 1	4-Data 2	5-Data 3	6-Data 4	7
Mean	--	62,5000	10,1250	10,8571	16,7500	15,2222	
Median	--	62,5000	11,0000	11,0000	17,5000	13,0000	
Std.Dev	--	32,2749	5,0267	4,8795	6,9230	6,2805	
Std.Err	--	16,1374	1,7772	1,8443	2,4477	2,0935	
95% Conf		51,3452	4,2025	4,5129	5,7879	4,8277	
99% Conf		94,0933	6,2199	6,8380	8,5663	7,0251	
Size	4,0000	4,0000	8,0000	7,0000	8,0000	9,0000	
Total	0,0000	250,0000	81,0000	76,0000	134,0000	137,0000	
Min		25,0000	2,0000	3,0000	5,0000	7,0000	
Max		100,0000	17,0000	18,0000	27,0000	25,0000	
Min.Pos		25,0000	2,0000	3,0000	5,0000	7,0000	
Missing	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	
Other	4,0000	0,0000	0,0000	0,0000	0,0000	0,0000	
14							

(This is from Example 5 from the Samples.JNB notebook file, opened from Help > SigmaPlot Sample Graphs.)

To see both the data and the statistical values, rightclick on the tab of one of the windows, and select “New Horizontal Tab Group”. You can drag windows from group to group, and you can arrange the windows like this:

The screenshot shows a software interface with a notebook on the left and a data table on the right. The notebook contains a list of examples, including 'Data 5*' and 'Box Plot'. The data table is titled 'Data 5*' and has columns for 1-X Data, 2-Box Widths, 3-Data 1, 4-Data 2, 5-Data 3, 6-Data 4, and 7. Below it is a 'Data 5 - Column Statistics' table with rows for Mean, Median, Std.Dev, Std.Err, 95% Conf, 99% Conf, Size, Total, Min, Max, Min.Pos, Missing, Other, and 14.

	1-X Data	2-Box Widths	3-Data 1	4-Data 2	5-Data 3	6-Data 4	7
1	Group A	100,000	8,000	3,000	5,000	15,000	
2	Group B	25,000	13,000	8,000	12,000	13,000	
3	Group C	75,000	5,000	9,000	17,000	25,000	
4	Group D	50,000	9,000	12,000	12,000	21,000	
5			14,000	11,000	21,000	7,000	
6			13,000	15,000	18,000	11,000	
7			2,000	18,000	27,000	11,000	
8			17,000		22,000	23,000	
9						11,000	
10							
11							
12							
13							
14							

	1-X Data	2-Box Widths	3-Data 1	4-Data 2	5-Data 3	6-Data 4	7
Mean	--	62,5000	10,1250	10,8571	16,7500	15,2222	
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Total	0,0000	250,0000	81,0000	76,0000	134,0000	137,0000	
Min		25,0000	2,0000	3,0000	5,0000	7,0000	
Max		100,0000	17,0000	18,0000	27,0000	25,0000	
Min.Pos		25,0000	2,0000	3,0000	5,0000	7,0000	
Missing	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	
Other	4,0000	0,0000	0,0000	0,0000	0,0000	0,0000	
14							

2. Copy and paste statistical data

You can also copy data from the column statistics, and paste them into the data worksheet or into another application. You can – of course – not paste into the column statistics.

Example

Copy the mean values for the group data columns in this example (col 3-6), paste them transposed (row <-> column) into a new worksheet, and create a simple bar graph of the mean values.

2.1 Select the values in the Column Statistics, and copy them (rightclick > copy, or Ctrl-C).

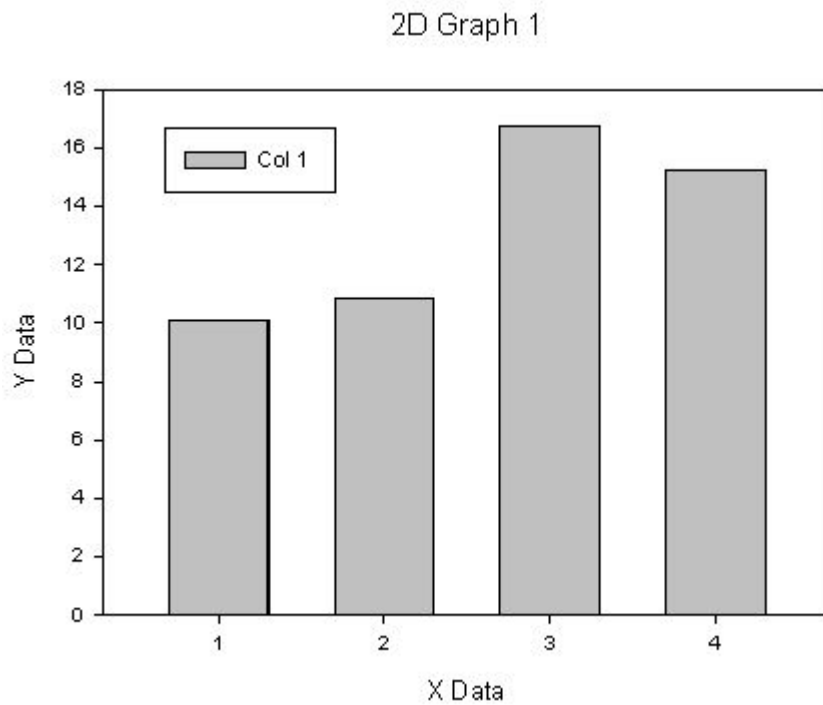
	1-X Data	2-Box Widths	3-Data 1	4-Data 2	5-Data 3	6-Data 4
Mean	--	62,5000	10,1250	10,8571	16,7500	15,2222
Median	--	62,5000	11,0000	11,0000	17,5000	13,0000
Std.Dev	--	32,2749	5,0267	4,8795	6,9230	6,2805
Std.Err	--	16,1374	1,7772	1,8443	2,4477	2,0935

2.2 Paste them into a new worksheet:

Worksheet > Paste > Transpose Paste, or rightclick > Transpose Paste.

	1	2	3	4	5
1	10,1250				
2	10,8571				
3	16,7500				
4	15,2222				

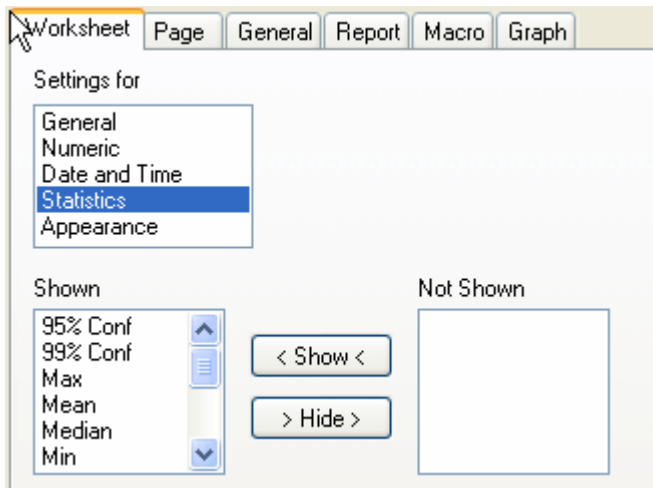
2.3 Create a bar graph:
Vertical Bar Chart > Simple Bar > Single Y > Column 1



3. Customize the Column Statistics

You can limit the range of statistical values which are displayed in the Column Statistics. Start with the Column Statistics window selected. Click on the "Main" button in the top left corner, then on Options.

In the Worksheet tab, select Statistics. Now you can use the Show and Hide buttons to move parameters to Shown/Not Shown.



4. More

For more statistical values, see

- Statistical Transforms
- User-Defined Transforms and Quick Transforms
in the "Transforms" section of the Analysis ribbon, and
- Descriptive Statistics
in the "SigmaStat" section of the Analysis ribbon.