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Histogram Calculation (Pro edition only)

Open Table or Figure or Fit Plot with initial data and select Processing \rightarrow Histogram menu item to calculate histogram.

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Binning

You can either set the bin width/count manually or specify auto binning criteria.

Bin Bounds

MagicPlot align the the lower limit of the first bin exactly at the beginning of specified histogram range (From: field). The upper limit of the last bin is calculated on the basis of bin width and may be greater than the specified right histogram limit (to: field) as shown on the screenshot above.

Auto Binning Criteria

You can enter any criteria in "Auto Binning" combo box.

- Typing k=... means setting the number of bins k
- Typing h=... means setting the bin width h.

The default alternatives are:

- k=sqrt(n)
- h=3.49*s/n^(1/3) (Scott's formula)
- k=log2(n)+1 (Sturges' formula)
- MISE optimisation (Shimazaki method, see http://toyoizumilab.brain.riken.jp/hideaki/res/histogram.html).

You can use these parameters in the expression:

- n the number of data points
- s data standard deviation
- m data mean
- min data minimum
- max data maximum.

Preview Plot

The preview plot shows the histogram which is evaluated according to selected parameters. It also shows the data point positions on X axis in the bottom of the plot.

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