Subject: Interactive calculation of statistical parameters like N and stdev
Posted by achim on Tue, 28 Jul 2015 09:47:21 GMT
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Hi,

great programme. Very much like it.

Is it possible to calculate number of samples and more importantly stdev in an interactive way. The box plot computes mean and median interactive, i.e. based on selection and filters. Is there something similar for N and stdev?

How are the whiskers calculated in the Box plot?

Achim

Subject: Re: Interactive calculation of statistical parameters like N and stdev
Posted by thomas on Wed, 29 Jul 2015 16:01:16 GMT
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Hi Achim,

currently, not all statistical parameters can be shown in the view, but with 'Copy Statistical Parameters'
from the view header's popup menu you get N, 1st to 3rd quartiles, lower and upper adjacent limits and outlier counts.

The source code for the Whisker calculation is in JVisualization.calculateBoxPlot(). What it does is the following:
The IRQ (inner quartile range) is calculates as distance from 1st to 3rd quartile. Then I calculate upper and lower limits as 1.5*IRQ added to 3rd quartile, or removed from 1st quartile. The lowest value above the lower limit and the highest value below the upper limit determine the whisker positions. All values beyond the limit values are considered outliers.

Thomas