

## Outliers in Box Plots

How are outliers handled in box plots?

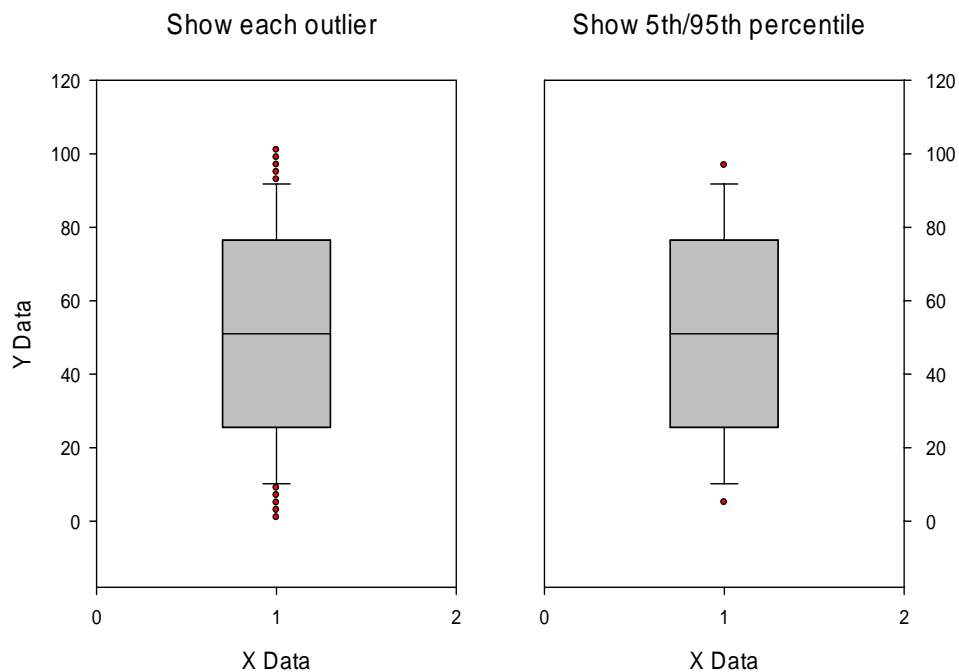
SigmaPlot provides two methods. Select them in Graph Properties > Box Plot Options.

a) **Show Each Outlier.**

Plots all data points that lie outside the 10th and 90th percentiles as symbols.

b) **Show 5th/95th Percentiles.**

Plots only the 5th and 95th percentiles as symbols.



## Percentile Methods

When graphing error bars and creating box plots, you can select the method of computing percentiles.

- 1- Standard method
- 2- Cleveland method

Both the Cleveland method and the Standard method use linear interpolation to determine the percentile value, but each uses a different method of rounding when determining the smallest data index used for the interpolation. The two methods give the same result when computing the 50th percentile (median).

For details, please see the "**Percentile Methods**" TechTip:  
[http://www.systat.de/TT201610/PercentMethod\\_EN.pdf](http://www.systat.de/TT201610/PercentMethod_EN.pdf).