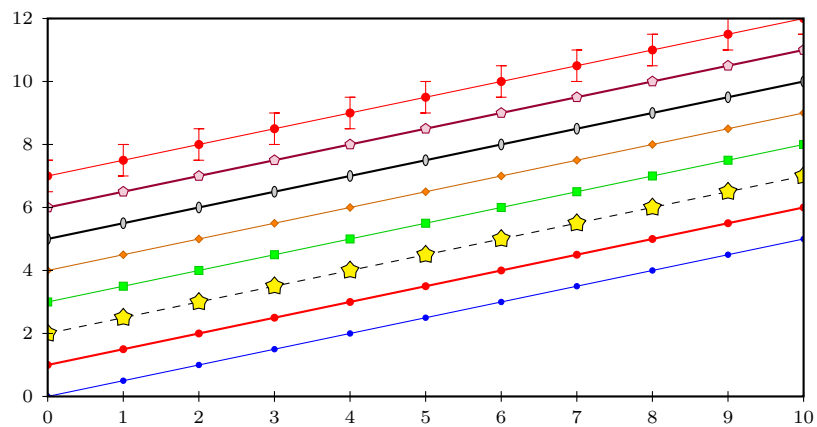# 1 Basic plots

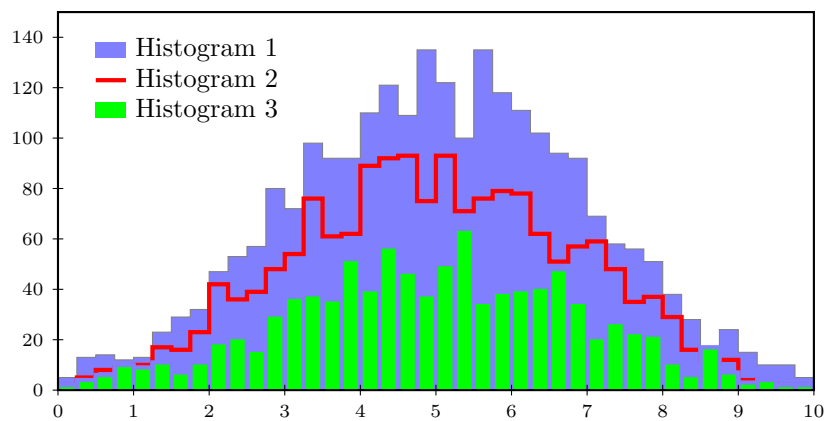Figure 1: Different line marker styles

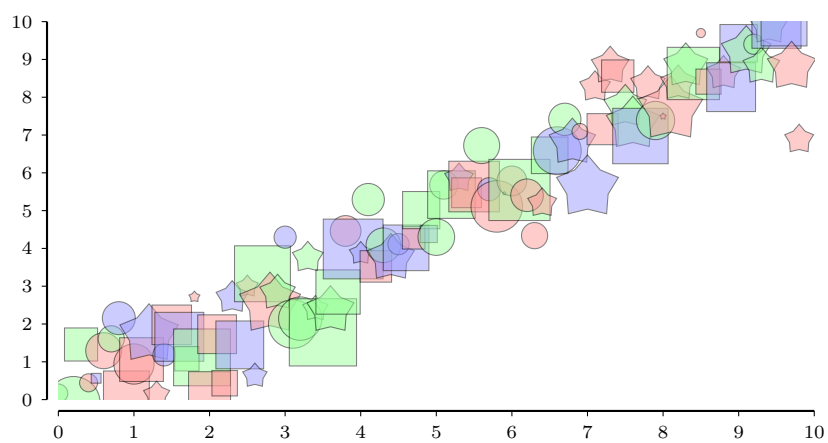Figure 2: Three histograms in the same figure

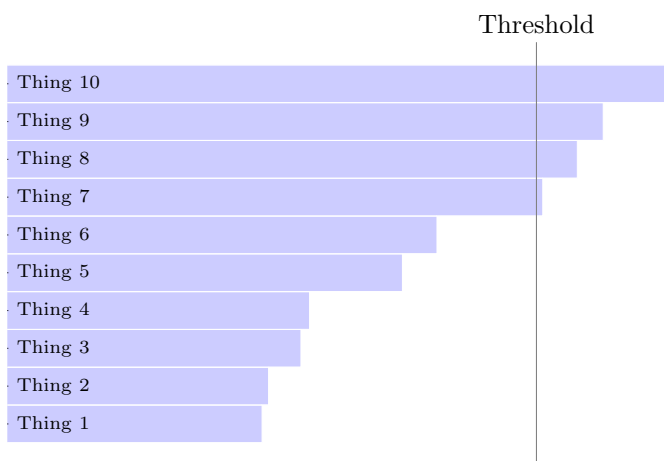Figure 3: Nodes of different sizes.

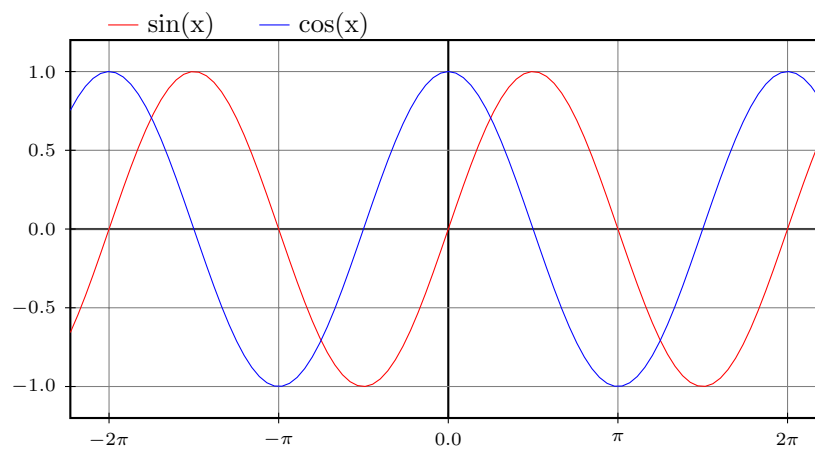Figure 4: Another histogram

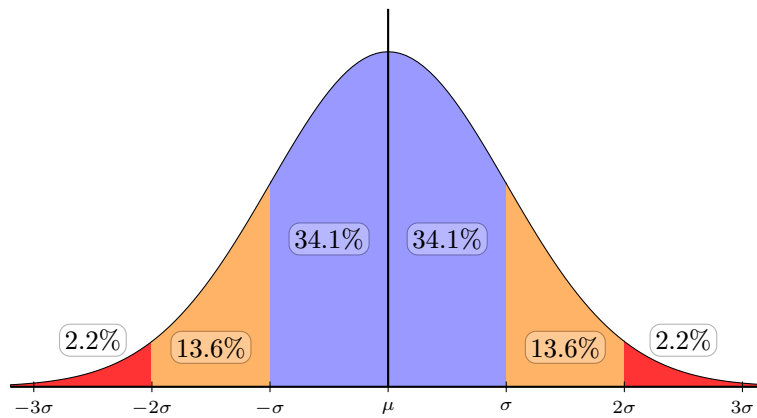Figure 5: Plotting functions

Figure 6: The Gaussian distribution

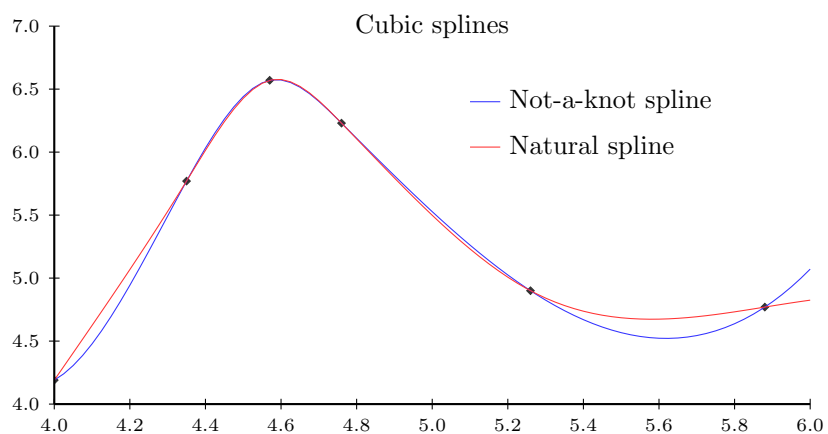## 2 Fitting with Levenberg marquart algorithm and splines

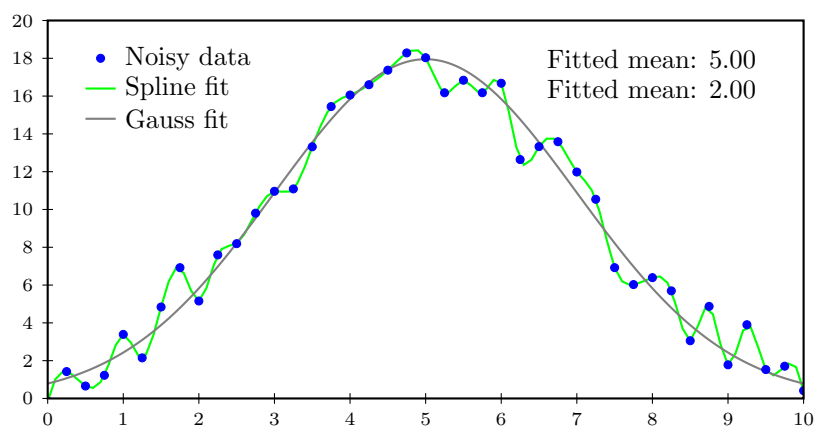Figure 7: Comparison of splines with different end point conditions.

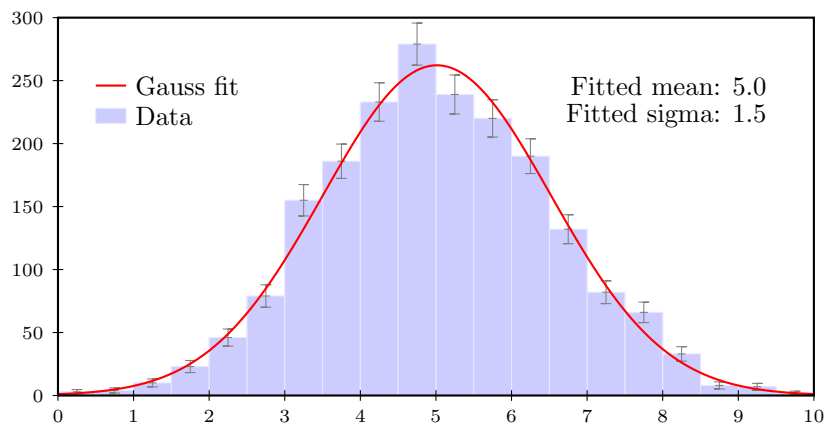Figure 8: The Gaussian function fitted to a set of noisy measurements

Figure 9: The Gaussian function fitted to histogram made from 2000 gaussian random numbers
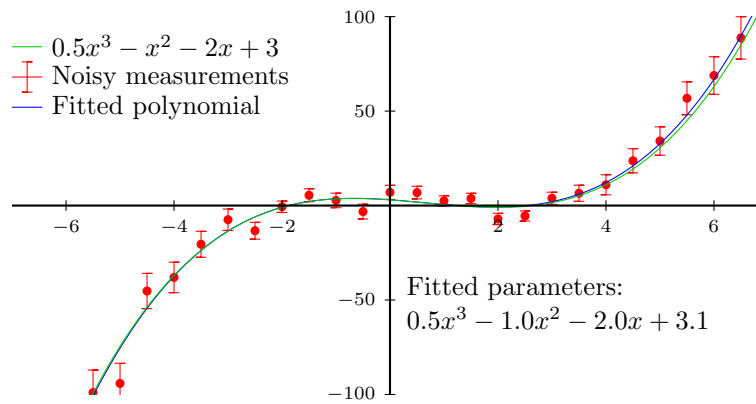

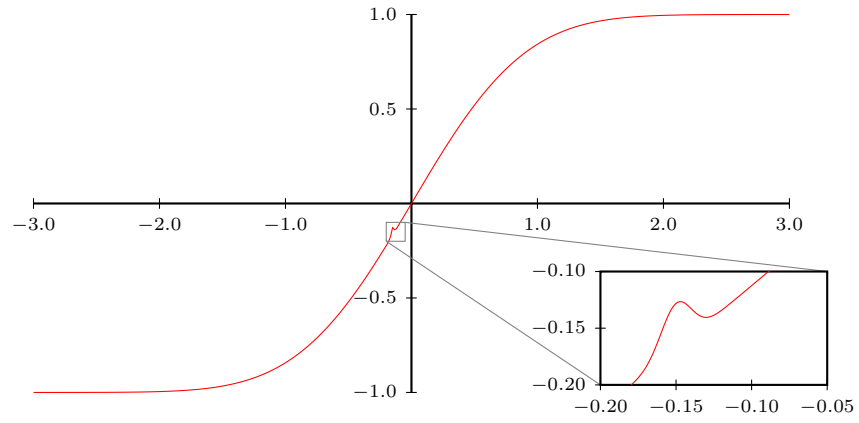Figure 10: A polynomial fit to noisy data

3 Subfigures

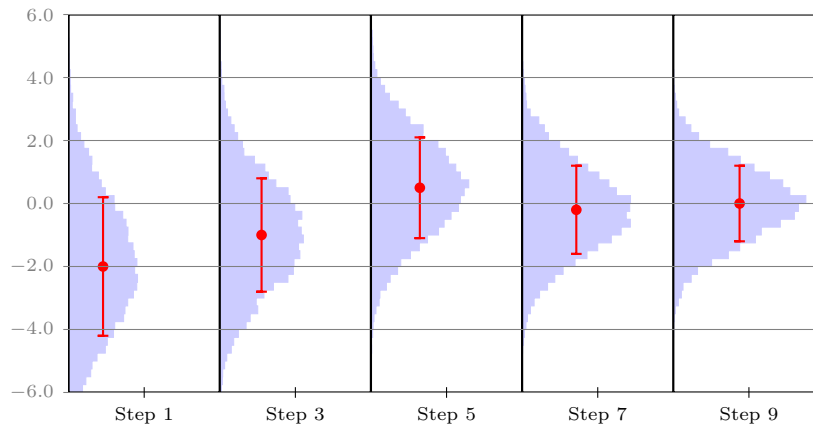Figure 11: Zooming in on region.

Figure 12: Histograms with mean and sigmas.
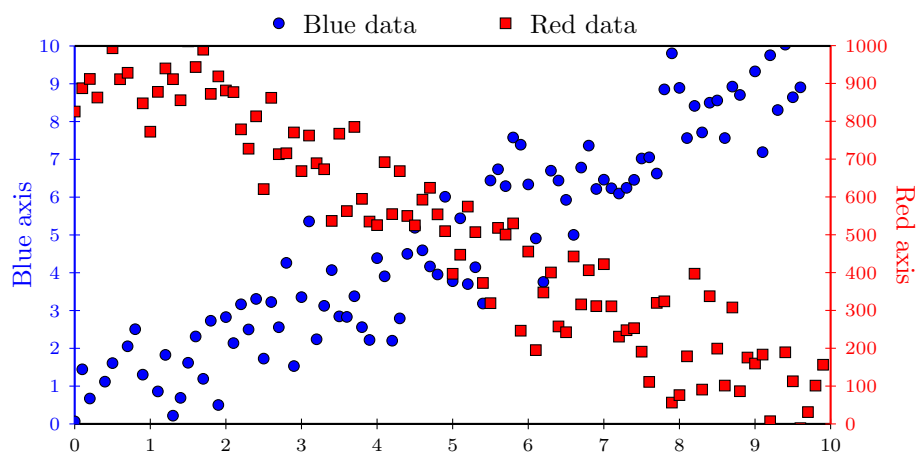
4 Different axes

Figure 13: Two data sets with different transformations and axes in the same plot.
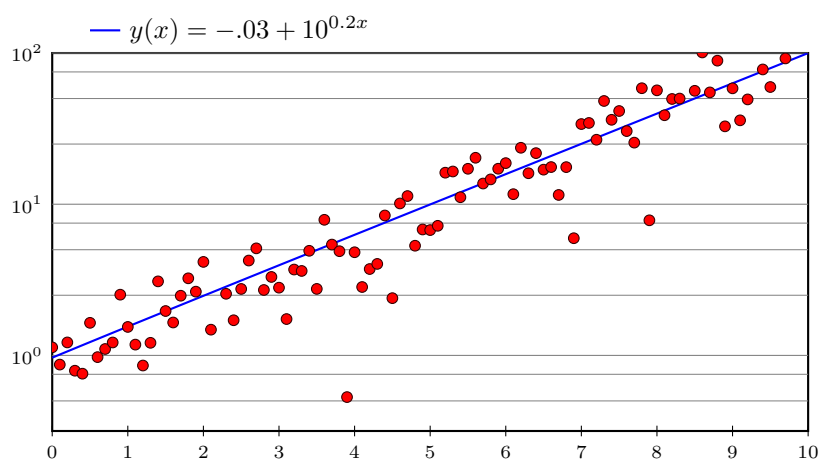

Figure 14: Log scale with sub ticks. The log scaling is done explicitly, not using tikz.
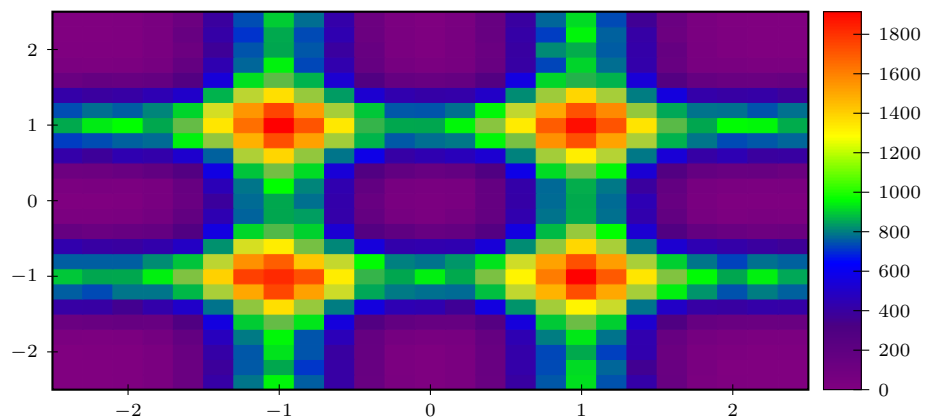
5 2D Histograms

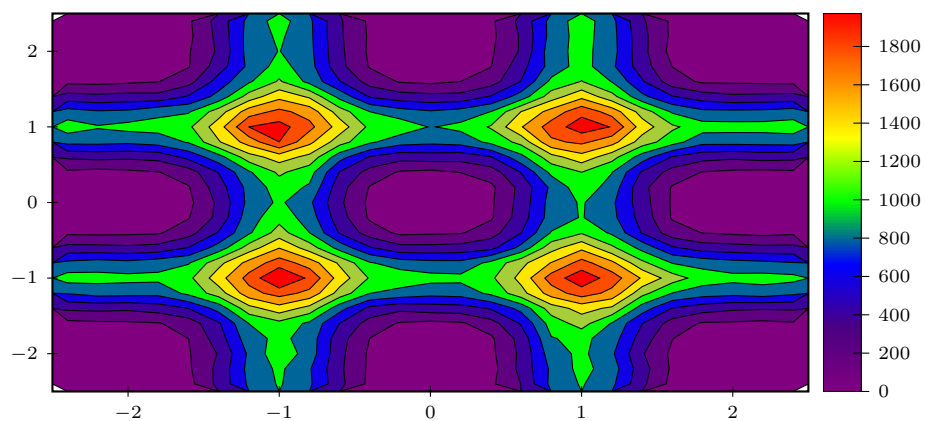Figure 15: 2D histogram as filled rectangles.

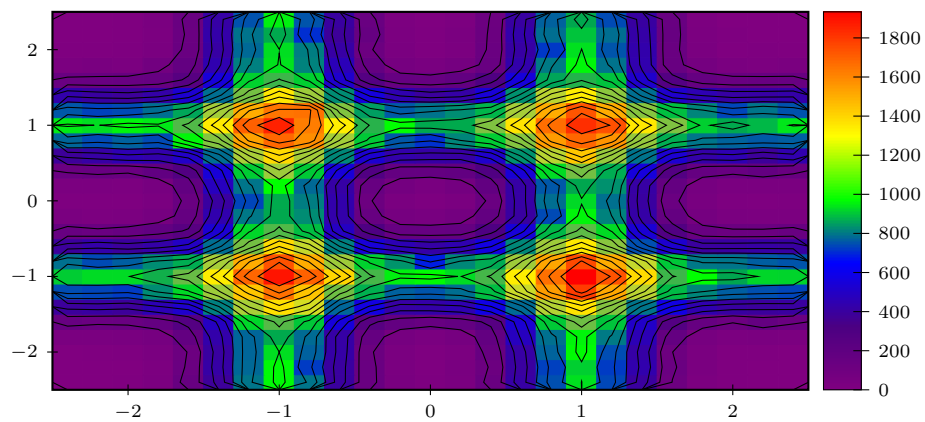Figure 16: 2D histogram with filled contours.

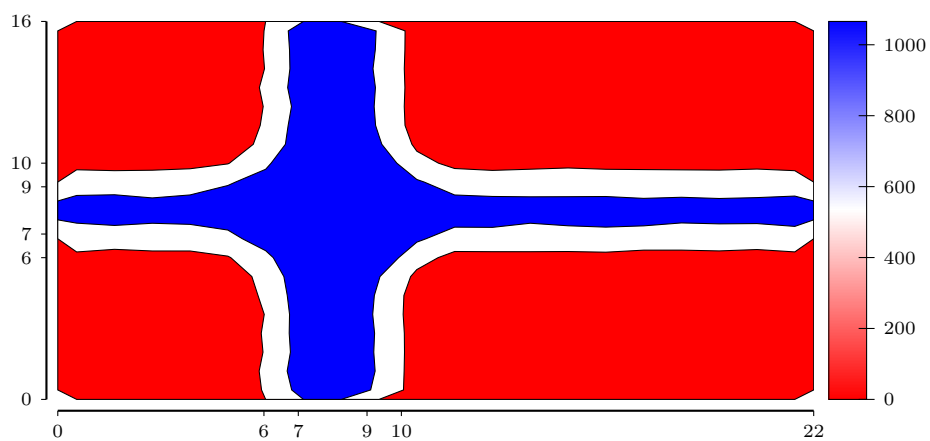Figure 17: 2D histogram with filled rectangles and contour lines.

Figure 18: 2D histogram with filled contours, not using rainbow colors.

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