Example 4: Analyzing Data

Task: Create a histogram and evaluate mean, median, min and max of a number of values.

Preparations

- Click on the arrow on the right side of the Graphics View and select Spreadsheet & Graphics from the Perspectives sidebar.

Construction Steps

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Enter some data into the cells of column A of the spreadsheet, e.g. fill A1 to A14 with values like 5, 3, 3, 2, 2, 4, 2, 1, 3, 3, 4, 5, 5, 3.</td>
</tr>
</tbody>
</table>
| 2 | Highlight the appropriate cells and select the tool One Variable Analysis.  
   Hint: In this example: Highlight the cells A1 till A14 and click the tool One Variable Analysis. After clicking Analyze in the Data Source Dialog, the Data Analysis dialog appears. |
| 3 | Select the appropriate Classes at the top of the pop-up window.  
   Hint: For the numbers in this example 5 Classes were used, because there are five different values. |
| 4 | Choose the Show Statistics icon from the Stylebar to open the Statistics panel. Find the mean, the median, the maximum and the minimum of the data. |
| 5 | Click the arrow button at the top right and select Set Classes Manually in the right Histogram menu.  
   Hint: Press Enter after specifying the Start value 0.5 and the Width 1 (values of this example). |

Some Tips

- Change some values in column A and see how this influences the histogram and the statistical values like mean, median, maximum and minimum.

- Change the diagram type from Histogram to Box Plot in the list box above the histogram.