



Collabora Productivity

Pivot Charts

By Tomáš Vajngerl

Pivot Charts

Work sponsored by Nantes

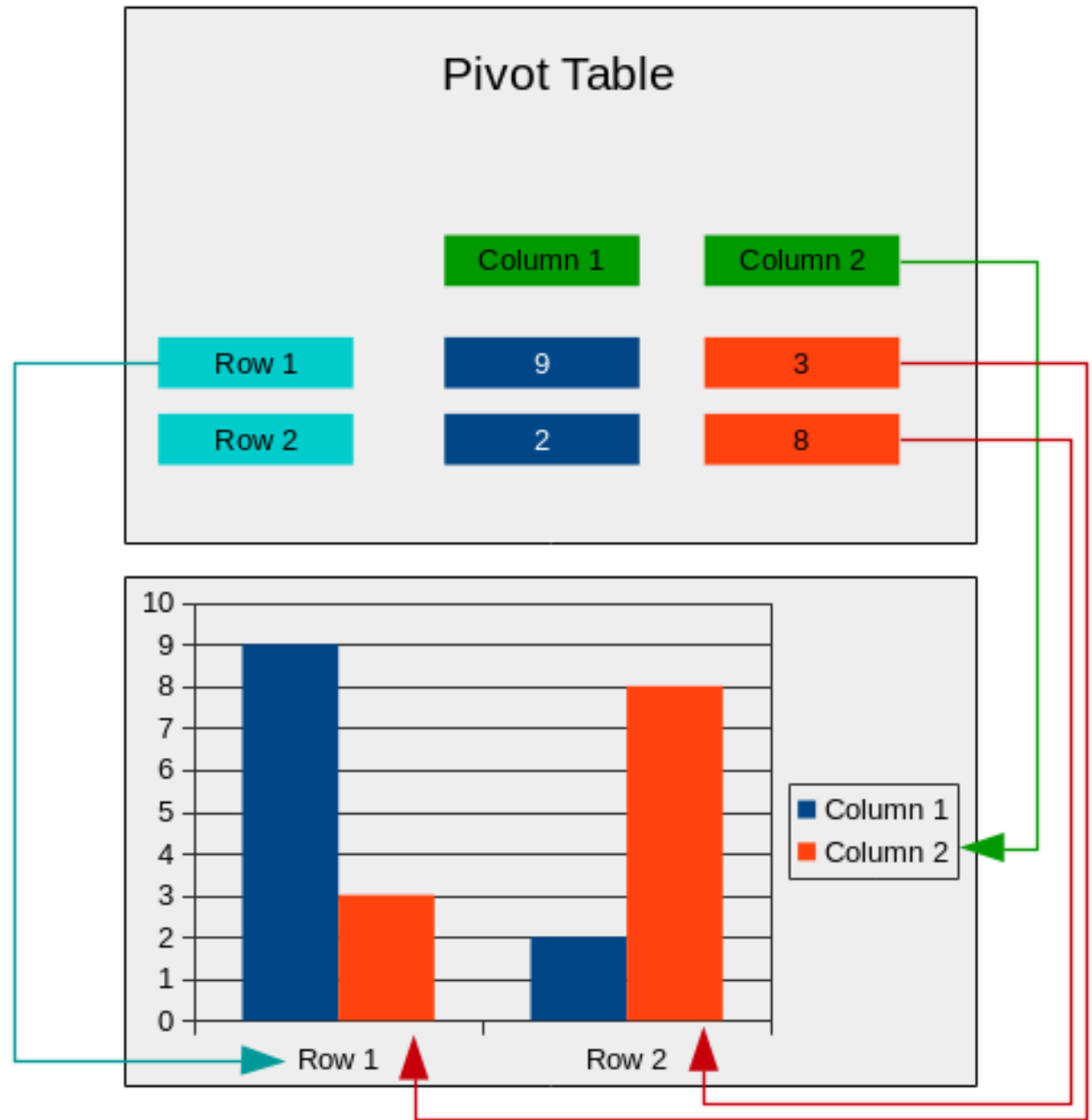
New feature added in LibreOffice 5.4

What are pivot charts...

Pivot tables are used to extract information from a (large) data set, pivot chart are then used to visualize the data.

Chart using data from the pivot table...

Pivot table data mapping



Pivot table data provider

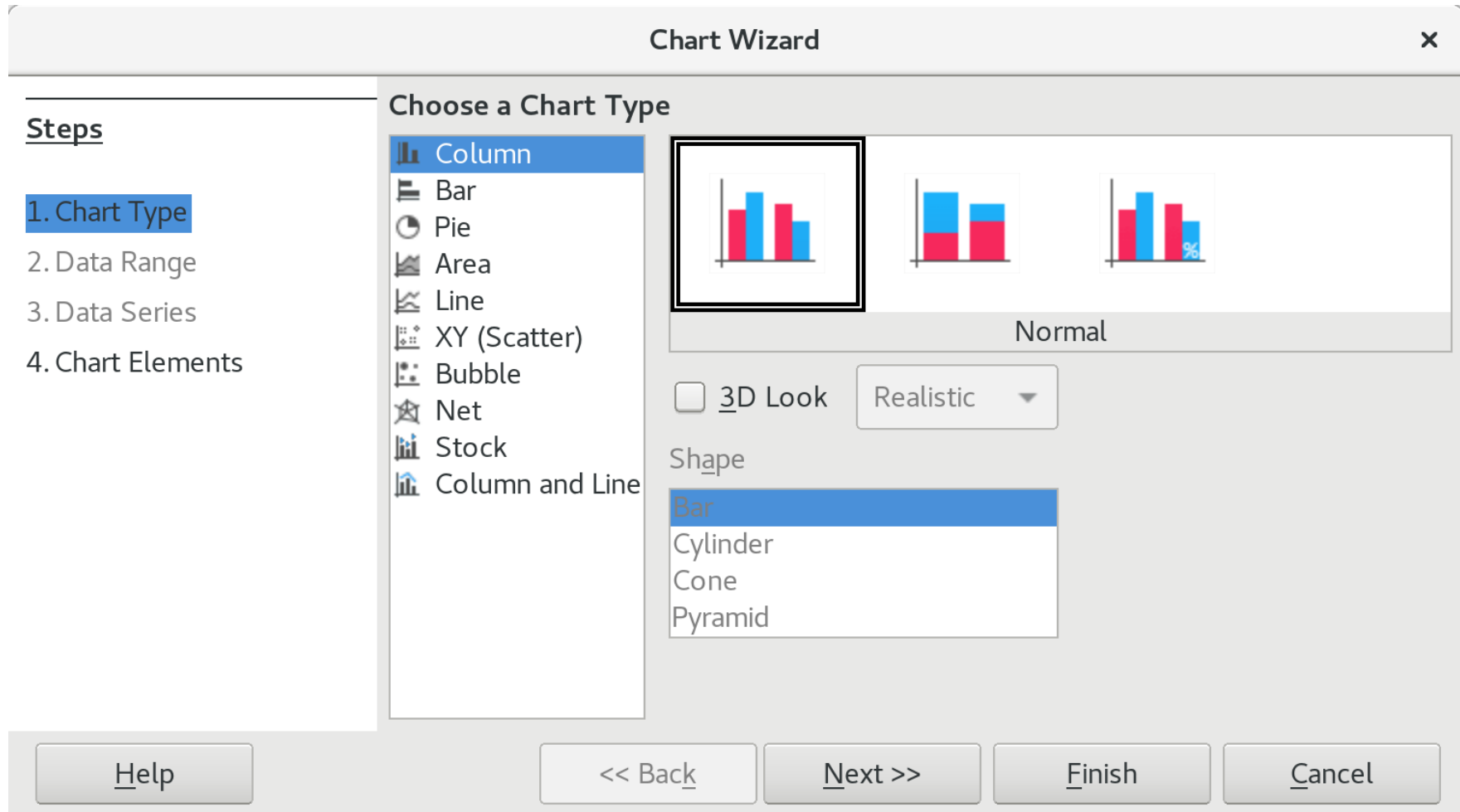
Separate from “spreadsheet” data provider

Takes pivot table data and maps it to the chart’s data sequences

Synchronisation

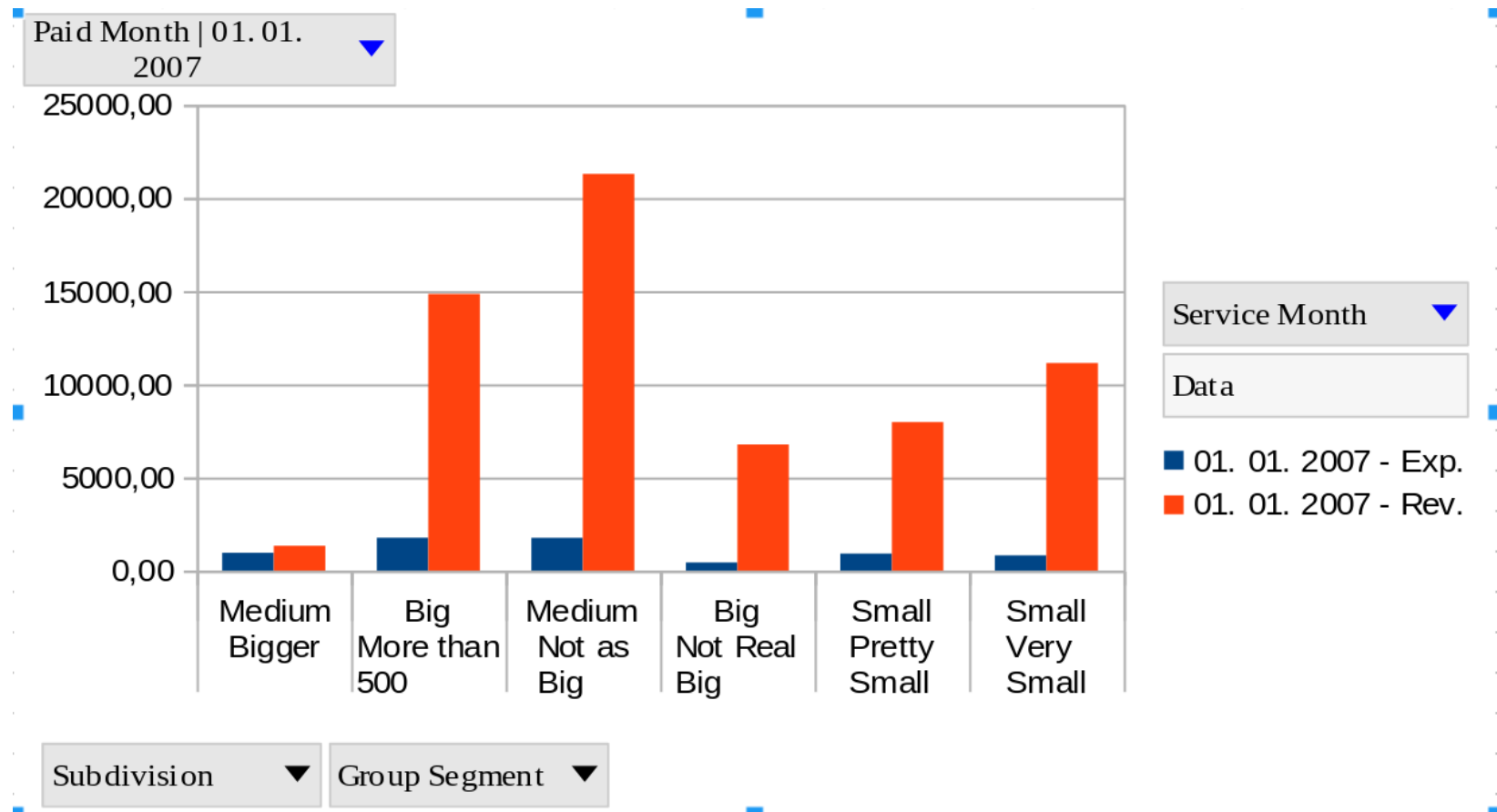
- **When the pivot table changes, the pivot chart must refresh the data**
- **Callback when the pivot table changes – already exists**
- **Rebuild the whole pivot chart**
 - charts only rebuild the data series

Pivot chart types



Addition to charts: field buttons

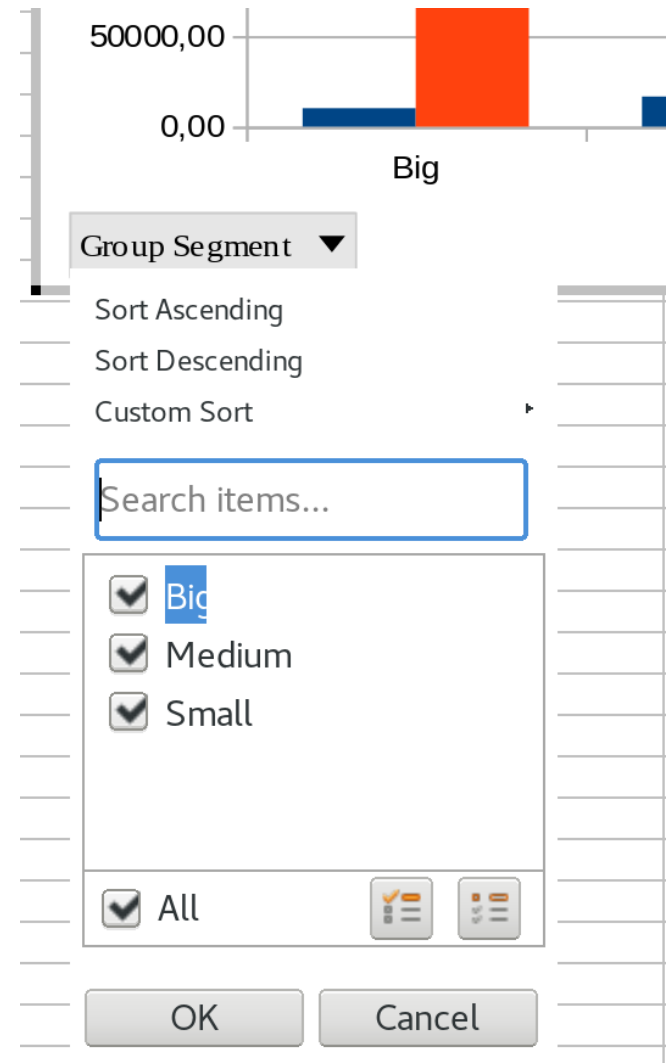
- To show the layout of the pivot table



Data filtering and the pop-up widget bridge

To show the filter pop-up menu from pivot table

Chart doesn't have direct access to Calc so a bridge is needed



ODF support

- **Just needed the identifier of the pivot table**
- **Extended the “chart” element**
 - additional attribute “loext:data-pilot-source”
- **Currently in loext namespace**
- **Fallback when no pivot charts support:**
 - Use the available table data

Copy/paste behaviour

- Same document, connects to the existing pivot table
- Different document, uses table data

TODO

OOXML support

Creation of pivot table and chart together - menu item



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Thanks for listening!

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