PieChartPlus Control Reference

Display enhanced interactive pie charts.

Reference **Controls** **Charts** PieChartPlus

The PieChartPlus is a graphical component designed for visualizing data proportions in Displays/Draw. It supports both DataTable integration and manual data entry, allowing users to represent and analyze data distributions. Users can configure chart properties, define data sources, customize colors, and enable legends for enhance visualization. The component updates dynamically when linked to a DataTable or can be operate with static data for predefined charting.

Requirements
Configuration
Runtime Execution

Requirements

This component is Portable, which means it will run both on Windows WPF displays and on Web Pages on any platform.

Configuration

To configure the PieChartPlus, access the Charts section in the Components Panel, select PieChartPlus, and place it in the drawing area. To edit its settings, double-click the object.

PieChartPlus Settings	
Field	**Description**
Use DataTable	Enables linking a DataTable from any source to populate the chart.
Use Auto Color	Automatically assigns chart colors. While *Use Auto Color* is selected, the *Color Column* and the *Colors Enum* are ignored.
Show Legend	Displays the chart legend when selected.
Show Value in Legend	Displays data values within the legend when selected.
Show Value on Slice	Available from FrameworX 10.1.6. Prints the value of each slice on the slice itself, or in the middle of the ring when *Center Size* makes the chart a donut. The value is the same one the legend shows, so you hide the legend to save space. Slices narrower than 10 degrees (about 3% of the chart) get no label. On a small chart, the labels of neighboring narrow slices sometimes overlap. Off by default.
DataTable	Associates a DataTable with the chart. The table must include columns defined in *Name Column*, *Value Column*, and *Color Column*.
Colors Enum	Uses an Enumeration to assign colors based on values defined in *ActiveColor*. The mapping is between the Enumeration's value field and the column defined in *Color Column* of the DataTable. Enabled only when *Use Auto Color* is not selected.
Center Size	Defines the radius of the chart's central circle. Controls the inner unfilled area, creating a donut-style visualization.
Data Items	Lists the data items to be displayed in the chart. Items are added with the plus (+) button, removed with the minus (-) button, and reordered using the up/down arrows. Enabled only when *Use DataTable* is not selected.
Field Name	Specifies the name of the field associated with the data item. Available only when *Use DataTable* is not selected.
Field Value	Defines the value associated with the field. It can be set using a static number or by associating a tag with dynamic values. Available only when *Use DataTable* is not selected.
Brush	Sets the color or brush used for the data item. Available only when *Use DataTable* is not selected.
Name Column	Defines the column name in the DataTable for the data labels. Available only when *Use DataTable* is selected.
Value Column	Defines the column name in the DataTable for the data values. Available only when *Use DataTable* is selected.

Color Column	Defines the column name in the DataTable for the data colors. Available only when *Use Auto Color* is not selected and *Use DataTable* is selected.

From FrameworX 10.1.6, to give each category the same color in a PieChartPlus and in a bar chart, clear *Use Auto Color* on the PieChartPlus and point both charts at the same color column.

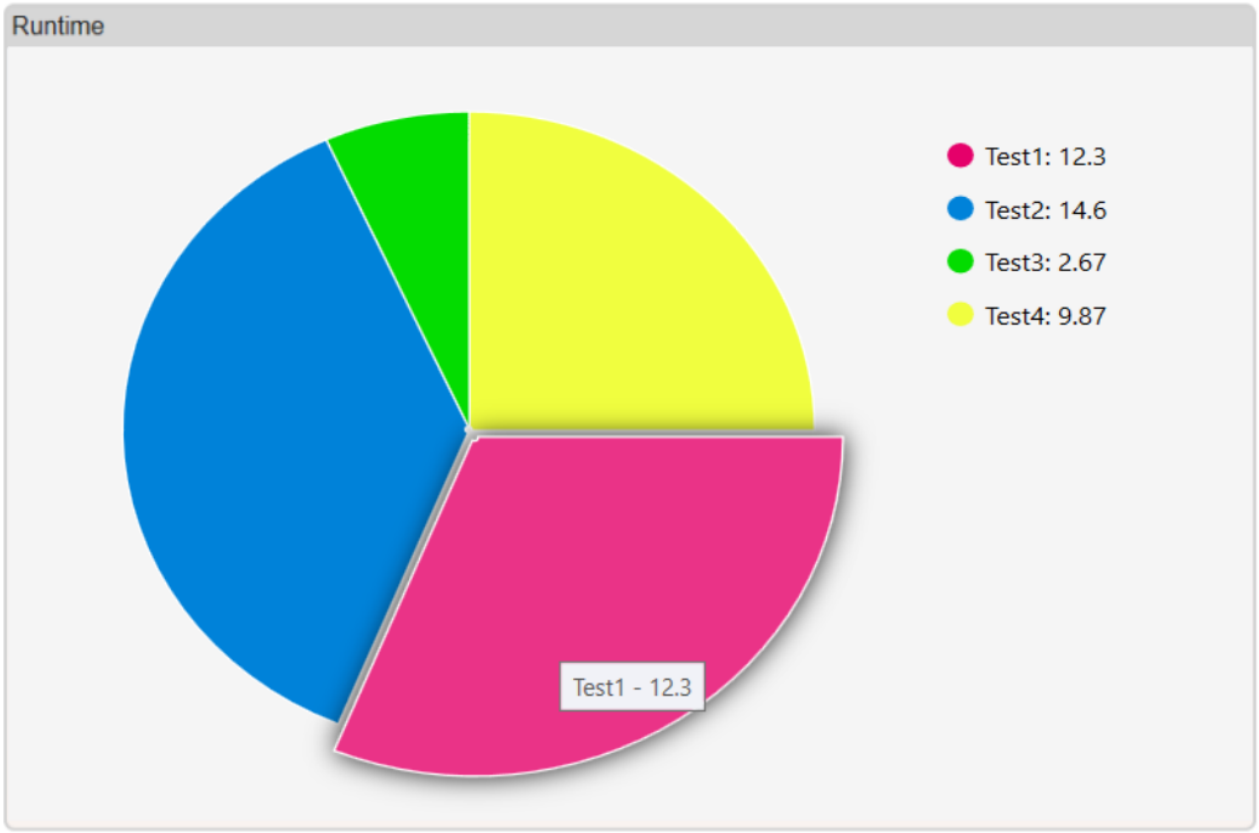
Runtime Execution

The PieChartPlus supports real-time data visualization through a linked DataTable or manually entered *Data Items*.

When *Use DataTable* is enabled, the chart updates dynamically based on the connected dataset. It retrieves data from the specified *Name Column*, *Value Column*, and *Color Column*, ensuring accurate real-time display. Users can interact with the chart to review distributions, observe trends, and compare categories. This mode is applicable for monitoring operational metrics, financial data, or other datasets that require continuous updates.

From FrameworX 10.1.6, the running chart draws the rows of the linked DataTable with the configured *Name Column*, *Value Column* and *Color Column*, in both the desktop and the web client. Tables with more than 20 rows also draw.

When *Use DataTable* is not selected, users can manually define data using *Data Items*. Each item includes a *Field Name*, *Field Value*, and *Brush*. This mode allows chart values to be defined manually, using static numbers or tags, without depending on external data sources.



DataTable Fail-Safe

If *Use DataTable* is enabled but the specified column names (*Name Column*, *Value Column*, *Color Column*) do not match any columns in the associated DataTable, the component does not render data from the table. Instead, it defaults to using the *Data Items* specified in the configuration. This fallback ensures that the chart continues to display data even if the linked DataTable is unavailable or misconfigured.

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