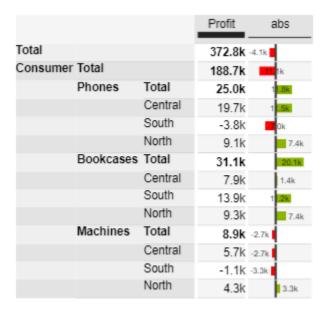
User Manual for the graphomate matrix for Power BI



Version 2020.3 – as of August 2020 https://www.graphomate.com



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Introduction

The graphomate matrix is our new table component for Power BI, Tableau and SAP Analytics Cloud (SAC).

This allows you to easily realize IBCS-compliant tables, but also to perform various (conditional) formatting, because the graphomate matrix can be designed using its own formatting language - the so-called Cell Formatting Language (CFL). When developing the graphomate matrix, the focus was on performance, horizontal and vertical scrolling, hierarchy displays in rows and columns, and graphical visualization elements:

	Profit	Profit FC	ab	s	pe	rc
⊿ ACME	372.8k	377.0k	-4.1k		-1%	
Consumer Consumer	188.7k	199.8k	-11.1k		-6%	
⊿ Corporate	123.4k	114.9k		8.5k		7%
⊿ Art	8.0k	16.0k	-8.1k		-50%	
Central	5.5k	7.3k	-1.8k		-24%	
South	2.0k	5.0k	-3.1k		-61%	
North	0.5k	3.7k	-3.2k		-87%	
⊿ Paper	2.4k	12.9k	-10.5k		-81%	
Central	1.2k	10.6k	-9.4k		-89%	
North	0.4k	1.2k	-0.8k		-67% =	
South	0.8k	1.1k	-0.3k		-24%	

The graphomate matrix replaces the **graphomate tables**, which we have been offering since 2014. Although the graphomate tables offered the possibility to map IBCS requirements to a table with just a few clicks. However, our customers wanted more formatting options and better performance, especially for large tables. We intend to offer the graphomate matrix not only for the SAP Analytics Cloud (SAC) step by step but also for other SAP Analytics front-ends.

Unfortunately, the SAP Partner Interface (SDK) for SAC currently does not offer the possibility to connect data directly. This is announced for H1.2021. Currently, unfortunately, a script workaround must be worked with to transfer data from a SAC standard visualization element to the graphomate matrix.

In the following we describe the properties of the graphomate matrix as well as the possibility to set them in our user interface. This user interface is almost identical in all BI front ends - Power BI, Tableau and the SAC. Formatting settings of the graphomate matrix can be stored on the graphomate server and used in other environments.

Installation

General notes on the use of graphomate extensions in Power BI

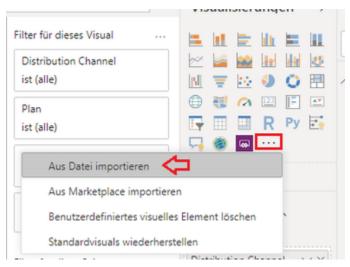
- The Power BI Report Server supports the use of graphomate extensions from version January 2020.
- The graphomate visuals must be imported for each new report if it's not provided as an organizational visual.

Organizational visuals

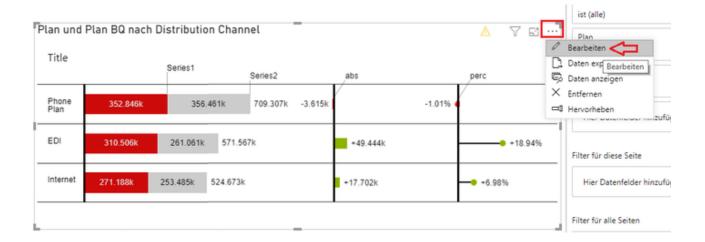
- Organizational visuals in Power Bl. Link (Docu Power Bl)
- Manage Power BI visuals admin settings. Link (Docu Power BI)
- The following article explains the handling and share options of visuals in the Power BI environment.
 Link

Insert a graphomate visual to a report

To use graphomate visuals for Power BI please add it over the three points in the visualization pane->
 "Import a visual from a file"



2. The graphomate property sheet (GPS) can be accessed via the three points in the upper right corner of the graphomate visual.

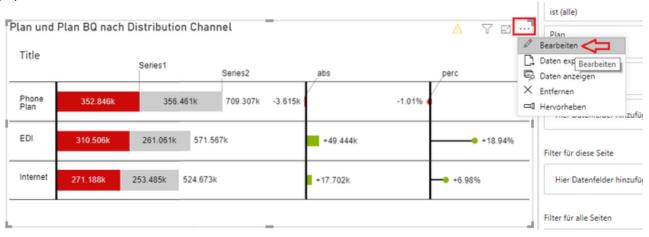


Your browser does not support the HTML5 video element

Quick Start

Öffnen des graphomate property sheets (GPS)

1. The graphomate property sheet (GPS) can be reached via the three points in the upper right corner of the graphomate visual. Choose "Edit".

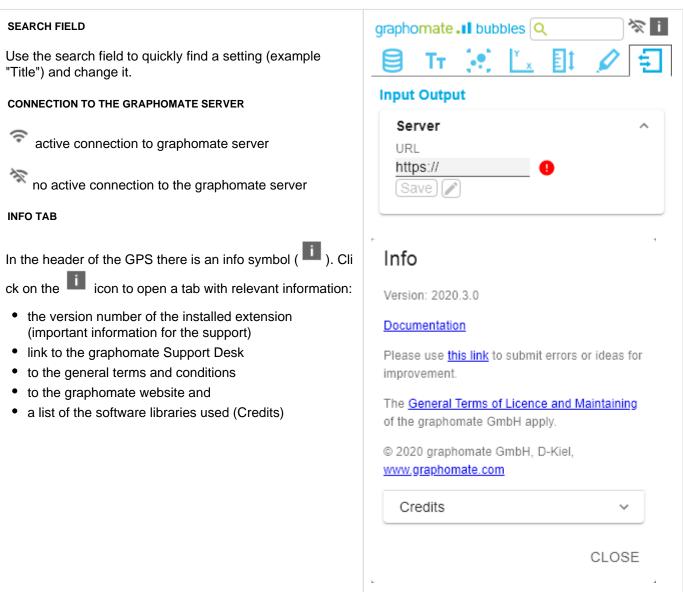


Your browser does not support the HTML5 video element

graphomate property sheet (GPS)

- Data Tab
- Labels Tab
- Axes Tab
- Chart Specific Tab
- Input Output Tab
- Default values

The following usage structure can be found in all graphomate extensions with the graphomate property sheet (GPS):



CHECKBOXEN

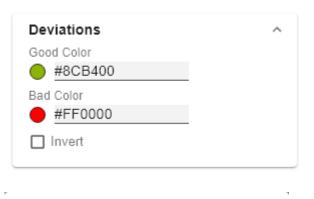
An active property is indicated by a white check mark in the checkbox. To deactivate it, click on the checkbox again.

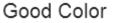
Additional Information ^ Legend Tooltip

COLOR PICKER

You can enter the color value as HEX code or click on the colored circle.

Use the Color Picker or enter color values as HEX, RGB, or HSL code. You switch between these color models using the small arrows on the right side of the color picker.





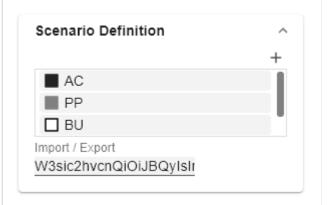


ADDING NEW ELEMENTS TO LISTS

Click on the + icon to create new elements in a list.

REMOVING ELEMENTS FROM A LIST

Hover over the element to delete an object. The following symbol appears . Click on the icon to delete the selected entry.



FILTER OPTION

In some cases, it is necessary that several settings are only applied to certain key figures, dimensions or dimensional characteristics. You can use the filter option to define the combination to which the setting is to be applied.

In the example on the left, the desired setting is only applied to the key figure "budget". This can be, for example, a certain number formatting, a scenario or a certain icon for displaying the key figure.

Filter states can be defined in the following settings of graphomate extensions:

- graphomate matrix
 - Value Format
 - Calculations/Deviations
 - Scenario Assignment
 - Bar Chart Assignment
 - Pin Chart Assignment
 - Background Bar Assignment
- graphomate bubbles
 - Value Format
- graphomate pictograms
 - Pictograms/Icon Assignment

Input mode: Field / comma separated list (csv)

Properties with the symbol allow the definition of settings on the graphomate property sheet in two

variants. The mode can be changed by clicking on the symbol. The following modes are available:

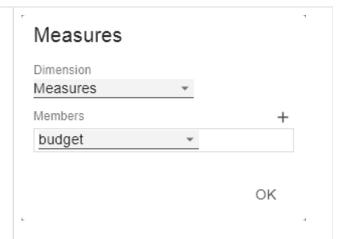
- 1. per field: The value is entered per field. After one field has been filled, another field is created automatically.
- 2. As a list: The entry is made as a comma-separated list.

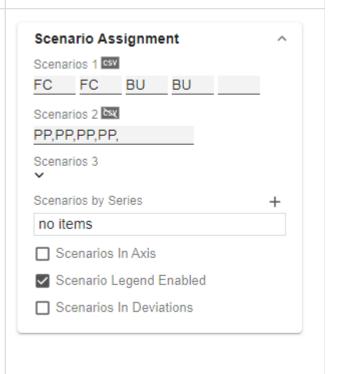
Example: Application of the scenarios to elements of a series (see picture)

The first series contains two forecast values (FC) and two budget values (BU). The second series contains only values from the previous period (PP). You can enter the assignment of the scenarios as follows:

Variant per field for series 1: FC (field 1), FC (field 2), BU (field 3), BU (field 4)

Variant as list for series 2: PP,PP,PP,PP,





Data Tab

CALCULATION

Deviations

This property can be used to calculate deviations. It is a list, where each individual element represents the calculation of a new deviation member. The variances are calculated as follows:

Absolute: Minuend - Subtrahend Percentage: (Minuend - Subtrahend) / |Subtrahend|

Please note: At this point only the values for deviations are calculated. You have the possibility to visualize these calculated values on the tab "Chart Specific".

Deviations Pop-Up

You can create new variances using the * sign. Each configuration has the following properties:

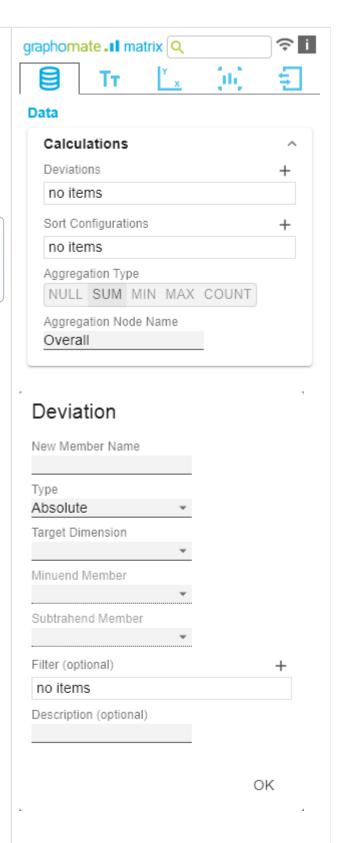
- New Member Key: The unique name of the newly calculated member that is displayed in the table.
- Type: either Absolute or Percent. Defines whether an absolute or relative deviation is calculated.
- Target Dimension: The dimension in which the new, calculated deviation member should be inserted - e.g. "measures".
- *Minuend Member*. The member that is to serve as a minuend, e.g. an actual value.
- Subtrahend Member. The member that is to serve as subtrahend, e.g. a value from the previous year.
- Filter (optional): A list of filter objects. Each filter object can restrict a dimension to certain members. Only deviation data points are created that correspond to the filter conditions.
- Description: Short name that describes the configuration to be recognizable e.g. "abs"

Sort Configurations

Here you can sort members of dimensions. Measures are also interpreted as a dimension and can be sorted accordingly.

In future versions we will extend these options.

Sort Configurations Pop-up



You can use the * sign to create new sort orders for dimensions. Each configuration has the following properties:

- *Dimension:* A dimension the members of which should be sorted.
- *Member:* Here you can use drag and drop to sort the members of a dimension or measures.
- *Description:* Short name describing the configuration to be recognizable

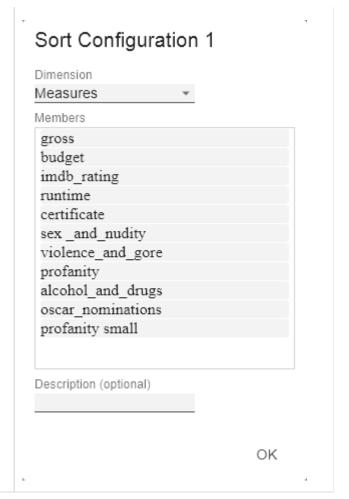
Aggregation Type

The graphomate matrix calculates aggregations for displaying hierarchy nodes, if the host environment doesn't provide them.

Here you can select the type of aggregation - the default setting is "Sum".

Aggregation Node Name

At this point, a separate name can be assigned to the aggregation elements - e.g. "Sum" or Total" or also "Europe".



SCENARIO DEFINITION

This property determines the appearance of the scenarios - previously known as Data Types.

The four standard scenarios of the International Business Communication Standards are already defined, but can also be adapted.

You can create new variants using the * sign.

Scenario Definition Pop-Up

Each scenario has the following characteristics:

- Identifier: A character string (such as AC) that can be used to reference the scenario - for example, in the Scenario Assignment below.
- Color: Here you can define the color using the color picker or enter a HEX, RGB or HSL code. You can switch these using the small arrows on the right side of the color picker.
- Fill Type: You can choose from the following fill patterns: Filled, without filling (Empty), hatching down (Hatched Down), hatching thick down (Hatched Down Bold), hatching up (Hatched Up), hatching thick up (Hat ched Up Bold), and dotted (Dotted).
- Shape: Refers to the pinheads. The following shapes are available: circle (circle), rectangle (rect), rhomb (rhomb), wedge (wedge), no symbol (none).
- Width: This property is not used in the graphomate matrix.
- Font Weight: Choose between normal or bold font size for this scenario.

Import/Export

Copy this string to use scenarios in other graphomate components.



SCENARIO ASSIGNMENT

Scenarios in Column Headers

This property ensures that the scenarios are displayed as bars below the column headers.

You can use the ⁺ sign to create assignments of scenarios to dimension members.

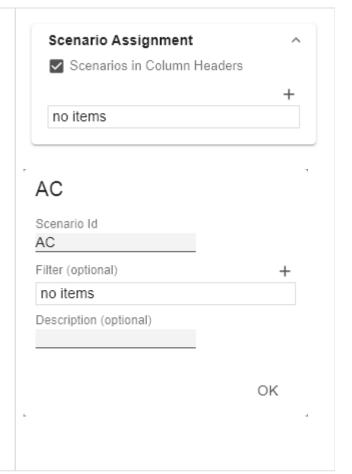
These can also be used for bar, pin, and background bars and their axes - see the tab "Chart Specific".

Scenario Assignment Pop-Up

This property assigns scenarios to data cells.

Each configuration has the following properties:

- Scenario Id: The ID of the scenario to be used. A scenario ID used here, has to be defined in the scenario definition.
- Filter: The selected scenario is assigned for each dimension member that is selected here using the sign.
- Description: Short name describing the configuration to be recognizable.



Labels Tab

TITLE graphomate . II matrix Q Title Text Enter the title for the matrix in this field. Multiple-line texts Labels are reproduced accordingly, i.e. the line break is adopted. Title Size Enable Enter the size of the title's font. Select a CSS unit from the Title Text list (such as px, em), Size 14 рх **FONT** Font Size Size 12 рх Enter the size of the font. Select a CSS unit from the list (such as px, em), Family Arial **Family** Color Define the global font. You can choose between Arial, #000000 Tahoma, Lucida Console, Verdana and Calibri or type in the name of a font which is installed on your system. Text Ellipsis Color This property defines the font color as HEX, RGB or HSL code. You can open a color picker by clicking on the colored circle and switch the color model by using the small arrows on the right. Alternatively, you can also use the color picker. Text Ellipsis When this option is selected, long character strings are not wrapped but abbreviated with three dots - e.g. electronic prod... **VALUE FORMAT** With the Value Format you define the way the values are displayed in the matrix. You can define several formats and assign them to specific columns using filtering.

Multiple Value Format Rules (Assignments) are prioritized in descending order, i.e. definitions that are lower in the list overwrite those above them when there filters overlap. Therefore, the generally valid format of the table should be defined at the top of this list without any further filters. Value Formats defined below, restricted by filters, overwrite the formatting defined above - "From General to Special".

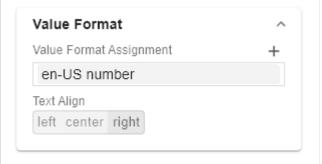
Value Format Assignment

You can access the configuration by clicking on an element in the list. You define another Value Format by clicking on the + symbol.

Value Format Pop-Up

Define the number format using the following options:

- Locale: Defines abbreviations, decimal and thousand separators for the respective language. You can choose between en, de, fr and auto. If auto is selected, the Locale set in the respective host application is used.
- Format Type: Defines the type of number output. You can choose between number (decimal number), percent (percentage) and ordinal (ordinal number).
- Abbreviations: Defines the type of abbreviations. You can choose between mean (abbreviation most suitable for the mean value), min (abbreviation most suitable for the minimum value), max (abbreviation most suitable for the maximum value), auto (best-suited abbreviation for each respective number individually), tr illion (trillion abbreviation), billion (billion abbreviation), million, thousand and none (no abbreviation at all). With this property you can, for example, ensure that numerical values are always displayed in thousands e.g. 0.1k or 1000k.
- Negative Sign: Defines how negative numbers are displayed. You can choose between minus, parenthesis , and none (no sign).
- *Prefix:* The input value is placed before the number.
- Suffix: The input value is placed after the number.
- Thousands Separator: Replaces the thousand separator set by the selected *locale*.
- Decimal Separator: Replaces the decimal separator set by the selected *locale*.
- Total Digits: Defines how many digits the number may consist of. Total Digits is prioritized over Decimal Digits.

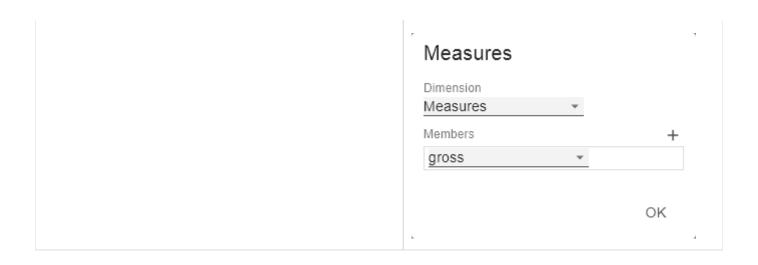


- Decimal Digits: Defines how many decimal places of the formatted number are displayed.
- Scaling Factor: The value of each data point is multiplied by the entered number to scale values.
- Zero Format: When the checkbox is activated, any data value equal to 0 (the number zero) gets replaced by the entered value.
- Null Format: Any data value that equals NULL (no value) gets replaced by the entered value.
- Error Format: If a data value is undefined or the result of an arithmetic error such as dividing by 0 (zero), the data value is replaced by the entered value.
- Rounding Method: Defines the rounding method. You can choose between half up (23.5 24, -23.5 -23), com mercial (23.5 24, -23.5 -24) and trim (23.5 23, -23.5 23).
- Explicit Positive Sign: Defines whether a positive number should always be preceded by a + (plus sign).
- Filter (optional): By clicking in the empty list or on the
 symbol, you can define one or more dimension members for which these format settings should apply. For example, you select a measure column using the dimension "measures" and the actual measure (e.g. "gross") of the column to be formatted.
- Description: Short name that describes the configuration to be recognizable

Text Alignment

Specify how text content is aligned in the matrix: leftaligned (left), centered (center) and right-aligned (right).

en-US number Locale en-US Format Type number Abbreviations auto Negative Sign minus Prefix Suffix Thousand Separator Decimal Separator Total Digits (approx.) Decimal Digits Scaling Factor Zero Format Null Format Infinity Format Rounding Method commercial Explicit Positive Sign Filter (optional) no items Description (optional) OK



SCRIPTED FORMATTING

CFL Rules

Learning from the usage of our first table component - the graphomate tables - we decided to offer our customers a possibility to format the graphomate matrix very individually according to their ideas. The Cell Formatting Language (CFL) let you define rules which are executed for each cell of the matrix. These rules can be used to influence the display of cells based on cell properties, data properties or matrix properties. In this way, you can create a heat map, color elements, or apply conditional formatting from the graphomate matrix with a few lines of code.

Cell Formatting Language:

The CFL is a script language for individual formatting of the graphomate matrix based on JavaScript syntax.

It allows to read from and write various properties to the global variable *cell* via *getter* and *setter*. A complete API documentation can be found here.

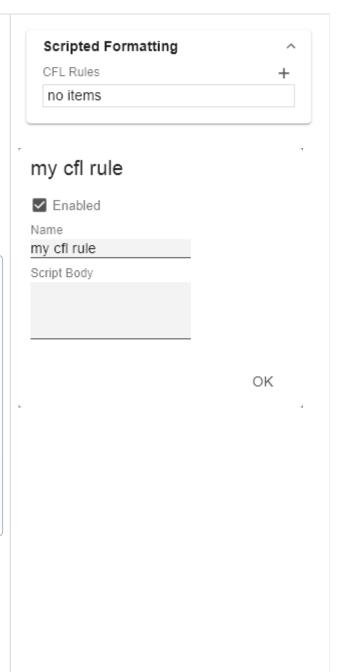
To simplify the programming of the CFL, we provide a web-based CFL editor from which the defined rules can be easily copied and pasted into the script body. This editor and some code templates can be found here.

For all CSS properties and values that can be set in the CFL, the usual notations apply.

CFL-Pop-Up

The following properties can be defined:

- Enabled: This Boolean property makes it possible to (de)activate the rule.
- Name: A name that is used to identify the rule.
- Script Body: This String property contains the actual script in the CFL (Cell Formatting Language)



HIERARCHY NODES

Here you control the color and font style of the hierarchy nodes in the table.

Color

Here you define the font color of the Hierarchy Nodes. The color overwrites the general font Color from the Font group. Use the Color Picker or enter color values as HEX, RGB, or HSL code. You switch between these color models using the small arrows on the right side of the color picker.

Bold

If you want hierarchy nodes to be displayed in bold, activate this property.

Italic

If hierarchy nodes should be displayed in italics, activate this property.

Indentation

Specify the size of the indentation of hierarchy nodes here. The indentation that is ultimately used is a multiple of the indentation set here and depends on the hierarchy level of the respective node. Select a CSS unit from the list (such as px, em).

Node Divider Thickness

Set the thickness of the horizontal separator lines below cells whose rows represent hierarchy nodes. All other separators can be set in the tab *Axes*.

Node Divider Color

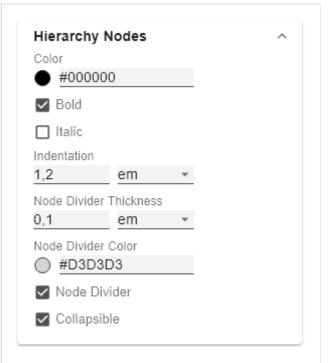
Here you can set the color of the horizontal separator lines below cells whose rows represent hierarchy nodes. All other separators can be set in the tab Axes.

Node Divider

Here you can switch the visibility of horizontal separators below cells whose lines represent hierarchy nodes on or off. All other separators can be set in the tab *Axes*.

Collapsible

If the hierarchy should be expandable and collapsible, activate the *Collapsible* property.



STYLING Styling Matrix Background Color Matrix Background Color #FFFFFF Determine the background color of the matrix using Color Picker or HEX, RGB or HSL code. You can switch this Matrix Padding using the small arrows on the right side of the color picker. 10 рх Matrix Padding This property determines the outer padding of the matrix component. Select a CSS unit (such as px, em) from the list. **FOOTER** Footer **Footer Text** Enable Enter the Footer text for the matrix in this field. Multiple-Footer Text line texts are reproduced accordingly, i.e. the line break is adopted. Size Size

Enter the footer's font size. Select a CSS unit from the list

(such as px, em),

12

рх

Axes Tab

COLUMNS

Default Width [px]

At this point, define the default value for column width in px.

Width Per Column [px]

This property allows you to set an individual width for each column of the matrix. The specification is made as a list. The indices of the list correspond to the column indices in the table. The column at position 0 corresponds to the row titles. The width is specified in pixels. For a table with one row title column, two data columns and one calculation column, a sample list would look like this: [200, 0, 0, 300].

If the value 0 is set for one or more columns, the value of the property Default Width is used for these columns.

With the csv-button you have the possibility to enter the column widths as a list of comma separated values.

Column Margins

This property sets the distance between columns, in any CSS length unit.

Supress Repeating Header

If members repeat themselves consecutivley in a column header row, this property can be used to display them only once in succession.

Header Dividers

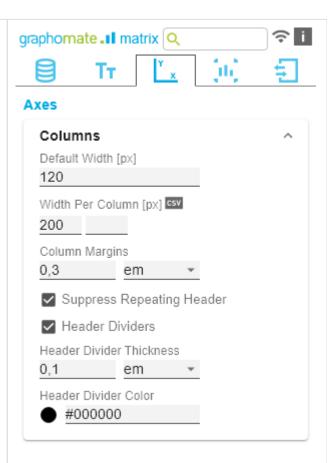
Here you can set the visibility of the horizontal separator lines below column header cells.

Header Divider Thickness

Here you can set the thickness of the horizontal dividing lines of column header cells. Select a CSS unit from the list (such as px, em).

Header Divider Color

Here you set the color of the horizontal separator lines of column header cells as HEX, RGB or HSL code. You can switch this using the small arrows on the right side of the color picker, which can be opened by clicking on the colored circle.



ROWS

Supress Repeating Row Header

If members repeat themselves consecutivley in a row header column, this property can be used to display them only once in succession.

Dividers

Here you set the visibility of the horizontal separator lines below data cells and row header cells whose rows are leaves of a hierarchy. That includes all rows which are neither column headers nor hierarchy nodes.

Divider Thickness

Set the thickness of the horizontal separator lines below cells whose rows are leaves in a hierarchy. That includes all rows which are neither column headers nor hierarchy nodes. Select a CSS unit from the list (such as px, em),

Divider Color

Here you set the color of the horizontal separator lines below cells whose rows are leaves in a hierarchy. That includes all rows which are neither column headers nor hierarchy nodes. Set the color as HEX, RGB or HSL code. You switch this using the small arrows on the right side of the color picker which can be opened by clicking on the colored circle.

Initial Expand Level

Here you can set the starting drilldown state of the row hierarchy. "0" only shows the root node.

Alternate Row Styling

This property makes the rows of the matrix alternately white and light gray which makes it easier to perceive individual rows.

Crosstab-like Row Headers

Activate this property to split up the row header's hierarchy levels into separate columns.

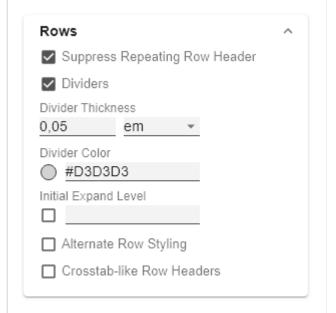


Chart Specific Tab

CHARTS

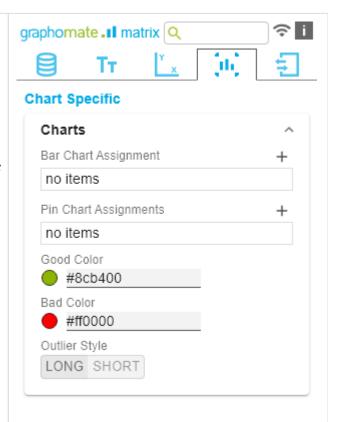
In this tab you configure visual elements like bar or pin charts in the graphomate matrix.

Bar Chart Assignment

This property determines which data should be displayed as an In-Cell Bar Chart type instead of a number. This can be both source data and calculated measures - tab *Data*: *C alculations*. This is a list, whereby each individual list element represents an independent configuration.

Click on the sign or in the empty list to make settings for the bar charts.

Bar Chart Assignment Pop-Up



- Labels: determines whether the value of the cell should be displayed as a label next to the chart's bar.
- Scenario Id for Axis: Sets a defined scenario for the axis.
- Scenario Id for Bar. Sets a defined scenario for the bar. Scenarios are defined on the first tab Data.
- Negative Value is Good: To swap the meaning of negative and positive colors, activate this property.
- Comparison Group ID: All In-Cell-Bar Charts of a graphomate matrix with an identical Comparison Group ID - any string - are scaled in the same way. In a later release this will also be possible across multiple graphomate matrix instances.
- Use Outlier Threshold: Specify here whether the Outlier Thresholds should be applied to the scaling.
- Positive Outlier Threshold: Describes the upper limit value of the scaling. All values that are greater than this limit value are displayed as outliers and are not included in the scaling. The next lower value of the scale or total scale (if a Comparison Group is used) then determines the new maximum of the scaling.
- Negative Outlier Threshold: Describes the lower limit value of the scaling. All values that are smaller than this limit value are displayed as outliers and are not included in the scaling. The next larger value of the scale or total scale (if a Comparison Group is used) then determines the new minimum of the scaling.
- Filter(optional, Pop-Up): By clicking in the empty list or on the ⁺ symbol, you can define one or more dimension members for which the bar charts should be displayed. You could, for example, select the dimension "measures" and the member "Revenue" to display bar charts in all columns representing the measure "Revenue".
- Description: Short name that describes the configuration to be recognizable.

Pin Chart Assignment

This property determines which data should be displayed as an In-Cell Pin Chart type instead of a number. This can be both source data and calculated measures - tab *Data*: *C alculations*. This is a list, whereby each individual list element represents an independent configuration.

Click on the sign or in the empty list to make settings for the pin charts.

Pin Chart Assignment Pop-Up

Bar Chart Assignment ✓ Labels Scenario Id for Axis Scenario Id for Bar Negative Value is Good Comparison Group Id Use Outlier Threshold Positive Outlier Threshold 100 Negative Outlier Threshold -100 Filter (optional) no items Description (optional)

- Labels: determines whether the value of the cell should be displayed as a label next to the chart's pin.
- Scenario Id for Axis: Sets a defined scenario for the axis.
- Scenario Id for Pin: Sets a defined scenario for the pin.
 Scenarios are defined on the first tab Data.
- Negative Value is Good: To swap the meaning of negative and positive colors, activate this property.
- Comparison Group ID: All In-Cell-Pin Charts of a graphomate matrix with an identical Comparison Group ID - any string - are scaled in the same way. In a later release this will also be possible across multiple graphomate matrix instances.
- Use Outlier Threshold: Specify here whether the Outlier Thresholds should be applied to the scaling.
- Positive Outlier Threshold: Describes the upper limit value of the scaling. All values that are greater than this limit value are displayed as outliers and are not included in the scaling. The next lower value of the scale or total scale (if a Comparison Group is used) then determines the new maximum of the scaling.
- Negative Outlier Threshold: Describes the lower limit value of the scaling. All values that are smaller than this limit value are displayed as outliers and are not included in the scaling. The next larger value of the scale or total scale (if a Comparison Group is used) then determines the new minimum of the scaling.
- Filter(optional, Pop-Up): By clicking in the empty list or on the ⁺ symbol, you can define one or more dimension members for which the pin charts should be displayed. You could, for example, select the dimension "measures" and the member "Revenue" to display pin charts in all columns representing the measure "Revenue".
- Description: Short name that describes the configuration to be recognizable.

Good Color

Here you can set the color for positive connoted values by clicking on the corresponding colored circle to open the color picker.

Bad Color

Here you can set the colors for negatively connoted values by clicking on the corresponding colored circle to open the color picker.

Outlier Style

Pin Chart Assignn	nents	
✓ Labels		
Scenario Id for Axis		
Scenario Id for Pin		
Comparison Group Id		
Use Outlier Threshold	ı	
Positive Outlier Threshold 100		
Negative Outlier Threshold -100		
Filter (optional)	+	
no items		
Description (optional)		
	OK	

Here you can select how outliers are displayed. In *SHORT* mode, the outliers are displayed as small triangles on the axis. In *LONG* mode, however, the outliers are displayed over the entire available area according to IBCS rules.

BACKGROUND BARS

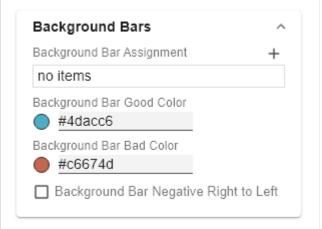
Background Bar Assignment

This property determines which data should be displayed as an In Cell Background Bar instead of a number. This is a list, whereby each individual list element represents an independent configuration.

Background Bar Assignment Pop-Up

- Scenario Id: Sets the defined scenario for the background bar. Scenarios are defined on the first tab Data.
- Negative Value is Good: To swap the meaning of negative and positive colors, activate this property.
- Comparison Group ID: All background bars of a graphomate matrix with an identical Comparison Group ID - any string - are scaled the same way. In a later release this will be possible across multiple graphomate matrix instances.
- Use Outlier Threshold: Specify here whether the Outlier Thresholds should be applied to the scaling.
- Positive Outlier Threshold: Describes the upper limit value of the scaling. All values that are greater than this limit value are displayed as outliers and are not included in the scaling. The next lower value of the scale or total scale (if a Comparison Group is used) then determines the new maximum of the scaling.
- Negative Outlier Threshold: Describes the lower limit value of the scaling. All values that are smaller than this limit value are displayed as outliers and are not included in the scaling. The next larger value of the scale or total scale (if a Comparison Group is used) then determines the new minimum of the scaling.
- Filter(optional, Pop-Up): By clicking in the empty list or on the ** symbol, you can define one or more dimension members for which the background bars should be displayed. You could, for example, select the dimension "measures" and the member "Revenue" to display pin charts in all columns representing the measure "Revenue".
- Description: Short name that describes the configuration to be recognizable.

Background Bar Good Color



Background Bar Assignment					
Scenario Id					
■ Negative Value is Good					
Comparison Group Id					
☐ Use Outlier Threshold					
Positive Outlier Threshold					
100					
Negative Outlier Threshold					
-100					
Filter (optional)	+				
no items					
Description (optional)					
	OK				

Here you can set the color for positive connoted values of background bar cells by clicking on the corresponding colored circle to open the color picker.

Background Bar Bad Color

Here you can set the color for negative connoted values of background bar cells by clicking on the corresponding colored circle to open the color picker.

Background Bar Negative Right To Left

If this property is active, background bars representing a negative value start at the right edge of the cell.

Input Output Tab

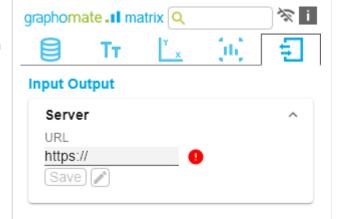
The functions of this tab are used to exchange templates for the graphomate matrix. Connect to the graphomate server - a free component of graphomate GmbH - to store or load a graphomate matrix template. This way you can exchange preconfigured graphomate matrix designs between BI frontends that support the graphomate server. Currently these are: Power BI, Tableau, Excel, Lumira Designer, Web Intelligence, SAP UI5, SAC.

SERVER

Here you enter the URL of the graphomate server to which the component should connect and from which you want to save or retrieve templates.

If you have entered the URL to the server, a green check mark indicates that a connection could be established. If another server is used later, the button next to the save button can be pressed and the server URL can be edited.

The hyperlink "Admin" allows you to jump to the admin area of the graphomate server.



TEMPLATES

If the current settings are to be saved as a template, a new template name can be entered in the input field labeled *Create Template* and confirmed by clicking the *Save State* button. If the entered name complies with the naming convention, the template is saved on the server and a toast with the corresponding message is displayed in the lower part of the *graphomate property sheet*. However, if the entered name does not meet the expected naming conventions, an error message with the permitted characters is displayed accordingly.

With *Choose Template* templates stored on the server can be retrieved and applied. To do this, the desired template must only be selected and the *Apply* button must be pressed. If you want to delete a template, you have to select the template in the list and press the *Delete (bin symbol)* button. If changes have been made to the templates on the server side, you have to click on the *Refr esh* button. Changes should then be visible.



Default values

Here you will find the default values of the preset Scenarios. Copy the character string and paste it back into the Data tab in the relevant Import/Export area.

Scenarios (AC, FC, PP, BU):

W3sic2hvcnQiOiJBQylsImNvbG9yljoilzlyMjlyMilsImZpbGx0eXBlljoiZmlsbGVkliwic2hhcGUiOiJyZWN0liwid GhpY2tuZXNzljoxLCJiYXJ3aWR0aCl6MC40LCJwaW53aWR0aCl6MC4yNSwiZm9udHdlaWdodCl6Im5vcm 1hbCJ9LHsic2hvcnQiOiJQUCIsImNvbG9yljoilzgwODA4MCIsImZpbGx0eXBlljoiZmlsbGVkliwic2hhcGUiOiJ yaG9tYilsInRoaWNrbmVzcyl6MSwiYmFyd2lkdGgiOjAuNCwicGlud2lkdGgiOjAuMjUsImZvbnR3ZWlnaHQiOi Jub3JtYWwifSx7lnNob3J0ljoiQlUiLCJjb2xvcil6liMwMDAwMDAiLCJmaWxsdHlwZSl6ImVtcHR5liwic2hhcGU iOiJjaXJjbGUiLCJ0aGlja25lc3MiOjEsImJhcndpZHRoljowLjQsInBpbndpZHRoljowLjl1LCJmb250d2VpZ2h0lj oibm9ybWFsIn0seyJzaG9ydCl6lkZDliwiY29sb3liOiljMDAwMDAwliwiZmlsbHR5cGUiOiJoYXRjaGVkVXAiL CJzaGFwZSl6lnJob21iliwidGhpY2tuZXNzljoxLCJiYXJ3aWR0aCl6MC40LCJwaW53aWR0aCl6MC4yNSwi Zm9udHdlaWdodCl6Im5vcm1hbCJ9XQ==

Known Issues (matrix)

• The performance of the virtual scrolling technology is negatively influenced by browser extensions that react to changes in the HTML structure. We have noticed this, for example, with ad blockers or some extensions to enlarge thumbnails.

Knwon Issues (Power BI)

- Not supported
 - Comparison Group
 - PDF Exports
 - own CSS classes
 - global scenarios, must be created for each graphomate visual (alternatively retrieve the definition via the graphomate server)
 - scripting