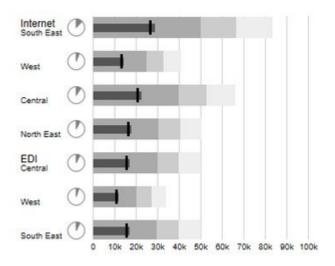
User Manual for the graphomate bullet graphs for SAP Lumira



Version 1.4 – as of Jan 2017

https://www.graphomate.com



Table of contents

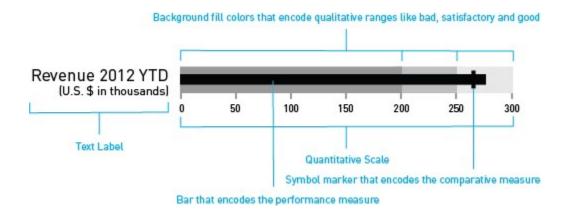
- Introduction
- Installation
- Quick Start
- Properties
- Known IssuesNumber Formatting

Introduction

Bullet Graphs – the alternative to tachometers and thermometers

A *bullet graph* is a variation of a bar graph developed by Stephen Few middle of the last decade. Seemingly inspired by the traditional thermometer charts and progress bars found in many dashboards, the *bullet graph* ser ves as a replacement for dashboard gauges and meters. Bullet graphs were developed to overcome the fundamental issues of gauges and meters: they typically display too little information, require too much space, and are cluttered with useless and distracting decoration.

The *bullet graph* features a single Performance Measure (e.g. current year-to-date revenue), compares that measure to one or more other measures to enrich its meaning (for example, compared to a target), and displays it in the context of Qualitative Ranges of performance, such as poor, satisfactory, and good. The Qualitative Ranges are displayed as varying intensities of a single hue. A quantitative scale and a text label complete the *bul let graph*.



graphomate bullet graphs can be used horizontally and vertically aligned as well as scaled identically. According to the number of dimension members in the query multiple bullet graphs are drawn. A Reverse Quantitative Scale - for example, for costs representations - can be easily realized.

If the *Qualitative Ranges* are missing in the database, these values can be determined on percentage values based on the second *Qualitative Range*.

Installation

Lumira Desktop

You have installed Lumira 1.30 or higher on your computer.

- 1. Save the zip file graphomate_bulletgraphs_1.4.X.X-LM1.30 to a folder of your choice.
- 2. In Lumira, choose *File Extensions*, click on *Manual Installation* and select the zip-file which has been saved before.
- 3. Restart Lumira manually.

After the restart, the *graphomate bullet graphs* appear in the Chart Extensions.

BI Platform

You have installed Lumira Server for BI Platform 1.30 or higher on your server.

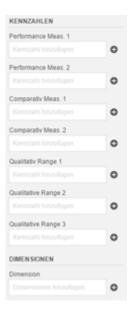
- 1. Save the zip-file graphomate_bulletgraphs_1.4.X.X-LM1.30 to a folder of your choice.
- 2. Navigate to CMC->ApplicationsSAPLumira and select "Extensions" from the context menu.
- 3. Follow the instructions to load the zip file.
- 4. After restarting your Application Processing Servers and the Lumira Server the extension should be listed under *CMCApplicationsSAPLumiraExtensions*.

Now all uploaded Lumira documents should display the graphomate bullet graphs correctly.

Quick Start

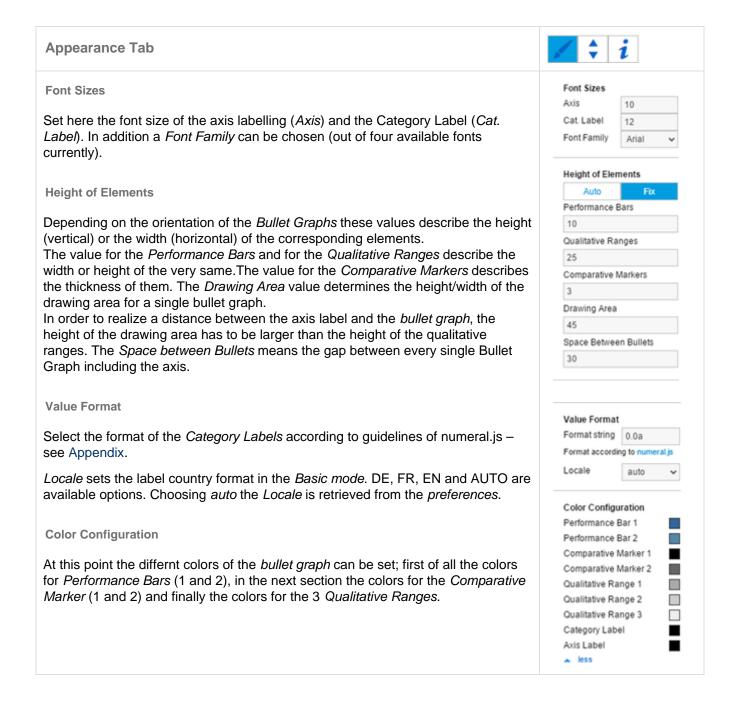
You have defined a Data Source and now want to depict data series from this query with a *graphomate bullet graph*.

- 1. In Visualize room choose graphomate bullet graphs at the Chart Extensions.
- 2. Now 8 so called *Feeds* appear. You can fill them with Dimensions or Mesures.
- 3. To fill the *Feeds*, click on the + symbol or drag and drop a measure or a dimensions directly to the appropriate feed.



Properties

Basically the features of the *graphomate bullet graphs* can only be maintained in the *Storyboard* room. If you have created a visualisation in the *Visualize* room, you can drag and drop this visualisation to the visualisation area in the *Compose* room. If you have done so, the *Visualisation Properties* appear at the right side of the page when you click on the visualisation.



Behaviour Tab

Display Elements

This section controls the labels of the *bullet graphs*. If the first *Checkbox* is activated, the *Category Labels* are displayed. If the second *Checkbox* is activated, repeating *Category Labels* will be suppressed.

Value Axis

This option controls the display of the *Value Axis*. *Always* draws one *Value Axis* for each bullet; *Once* draws a single *Value Axis*, which applies to all bullet graphs. This appears at the bottom of the component. *Never* suppresses the display of the *Value Axis* completely.

Use Individual Scales

If this *Checkbox* is activated, each bullet axis is calculated individually. Otherwise all bullets are scaled identically. While choosing *Value Axis* option *Once*, *Use Individual Scales* is disabled.

Reverse Qualitative Ranges

This *Checkbox* controls the display of the *Qualitative Ranges*. If this option is deselected, they are drawn from the left side (usually the value range minimum) to the input value (or calculated value). If the option is activated, the *Qualitative Ranges* are displayed in reverse so that the range is drawn from the input value to the value range maximum.

Reverse Quantitative Ranges

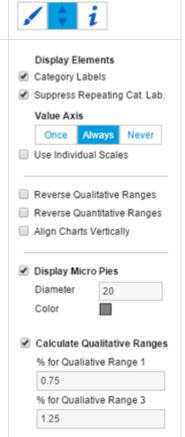
This *Checkbox* controls the representation of the axis. If this option is activated, the axis is drawnfrom n to 0, otherwise the scaling is inverted – from 0 to n.

Align Charts Vertivally

This *Checkbox* describes the orientation of the *bullets*. If it is activated, they are displayed vertically, otherwise they are displayed horizontally.

Display Micro Pies

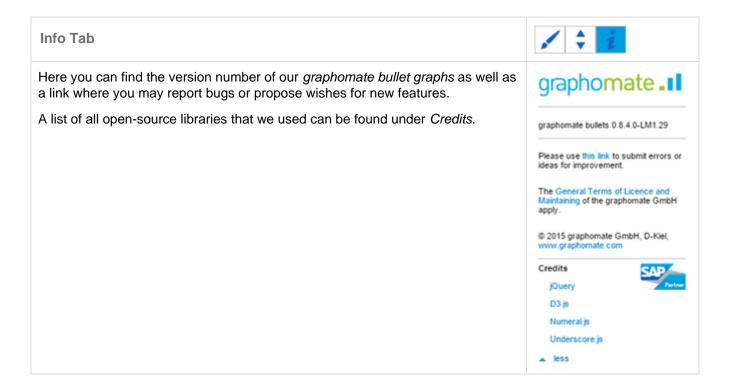
Activating this *Checkbox* will display a pie chart in front of each bullet graph. This small pie displays the percentage of the primary measure as part-to-whole – the sum of the primary measure. If a total exists in the data source, it is used as a basis for the calculation. If only partial or no sums are available, the total amount will be calculated from the data. The diameter of the *Micro Pies* can be changed with the option *Diameter of Micro Pies*. The color of the *Micro Pies* can be selected with the option *Micro Pie Color*.



Calculate Qualitative Ranges

If this *Checkbox* is activated, *Qualitative Ranges 1* and 3 will be calculated. The values of *Percentage for Qualitative Range 1* and 3 are used to calculate *Qualitative Ranges 1* and 3 based on *Qualitative Range 2*. The two missing ranges are calculated by multiplying range 2 by the values entered here. Therefore the first value should be < 1, as otherwise the bar for *Qualitative Range 2* will be obscured by the bar for *Qualitative Range 1*.

Yet the second value should be > 1, as otherwise the bar for *Qualitative Range 3* will be obscured by the bar for *Qualitative Range 2*.



Known Issues

• The BI Mobile App does currently not support Lumira extensions. This is a limitation of the extension sdk.

Number Formatting

Input options for the numeral.js Format String

Format	String
'0,0.0000'	10.000,0000
'0,0'	10
'0,0.0'	-10.000,0
'.00'	-,23
'(.00)'	(,23)
'0.00000'	0,23000
'0.0[0000]'	0,23
'0.0a'	1,2m
'0 a'	1 k
'00'	1st
Format	String
'\$0,0.00'	\$1.000,23
0,0[.]00 \$'	1.000,20 \$
'\$ 0,0[.]00'	\$ 1.001
Format	String
'0%'	100%
'0 %'	-43%
	'0,0.0000' '0,0.0' '0,0.0' '.00' '0.00000' '0.0[0000]' '0.0a' '0 a' '0o' Format '\$0,0.00' 0,0[.]00 \$' '\$ 0,0[.]00'

source: http://numeraljs.com/