

# BerlinCanvas

## Documentation of the Attributes of the Charting Library

Put all non-digit values in straight apostrophes

### 1 Vertical Bar and Line Charts:

canvas\_properties.**bar**

Attributes	Possible Values
background_color	[rgba-color codes]
border_color	rgba-color code
border_width	digit $\geq 0$
rainbow	no/yes
stacked	no/yes

canvas\_properties.**barlabel**

Attributes	Possible Values
display	[no/yes]
font_color	[rgba-color codes]
font_size	[digits $\geq 1$ ] (16 recommended)
position_y	[digits]

canvas\_properties.**canvas**

Attributes	Possible Values
document_id	document ID
font_family	font family (Calibri recommended)
height	digit $\geq 1$ (350 recommended)
width	digit $\geq 1$ (700 recommended)

## canvas\_properties.chart

Attributes	Possible Values
axis_labels	[first line], [second line], ...
chart_to_values_spacing	no/yes (yes recommended)  Adds an extra gridline to the chart. Corresponds to the width of the tick step size. Only applies for the highest positive and lowest negative value.
orientation	horizontal/vertical
types	['bar'] ['line'] ['line', 'bar', ...] ['line', 'line', 'bar', 'bar', 'bar', ...]
values	[digits], [digits], ...

## canvas\_properties.grid

Attributes	Possible Values
background_color	rgba-color code
under_over_zero_line_color	rgba-color code  Color for the 0-line. Only applies, if chart has values under and over 0.

## canvas\_properties.grid.x

## canvas\_properties.grid.y

Attributes	Possible Values
display	no/yes
line_color	rgba-color code
line_width	digit >= 1

### canvas\_properties.**legend**

Attributes	Possible Values
display	no/yes
font_color	rgba-color code
font_size	digit $\geq 1$ (16 recommended)
labels	[labels]
legend_to_chart_spacing	digit $\geq 0$
line_height	float $\geq 1.0$
point_to_label_spacing	digit $\geq 1$ (10 recommended)

### canvas\_properties.**legendpoint**

Attributes	Possible Values
background_color	[rgba-color codes]
border_color	[rgba-color codes]
border_width	[digits $\geq 0$ ]
position_y	[digits]
radius	[digits $\geq 0$ ]
shape	[shapes]  Shapes: circle, cross, discrete horizontal, discrete vertical, plus, rectangle, star, triangle

### canvas\_properties.**line**

Attributes	Possible Values
color	[rgba-color codes]
display	[no/yes]
width	[digits $\geq 1$ ]

### canvas\_properties.**linearea**

Attributes	Possible Values
color	[rgba-color codes]
display	[no/yes]
fill_to	[fill to]  Fill to: bottom, line, top

### canvas\_properties.**linepoint**

Attributes	Possible Values
background_color	[rgba-color codes]
border_color	[rgba-color codes]
border_width	[digits >= 0]
display	[no/yes]
radius	[digits >= 0]
rainbow	no/yes
shape	[shapes]  Shapes: circle, cross, discrete horizontal, discrete vertical, plus, rectangle, star, triangle

### canvas\_properties.**linepointlabel**

Attributes	Possible Values
display	[no/yes]
font_color	[rgba-color codes]
font_size	[digits >= 1] (16 recommended)
position_y	[digits]

canvas\_properties.**xaxis**

Attributes	Possible Values
font_color	[rgba-color codes]
font_size	[digits >= 1] (16 recommended)
line_height	[float values >= 1.0]
tick_color	rgba-color code
tick_length	digit >= 0
tick_to_label_spacing	digit >= 0
tick_width	digit >= 1

canvas\_properties.**yaxis**

Attributes	Possible Values
font_color	rgba-color code
font_size	digit >= 1 (16 recommended)
tick_color	rgba-color code
tick_length	digit >= 0
tick_step_size	digit >= 1
tick_to_label_spacing	digit >= 0
tick_width	digit >= 1

## 2 Horizontal Bar and Line Charts:

- Use the properties of Vertical Bar and Line Charts.
- Use the value 'horizontal' for the attribute orientation.
- Use `barlabel.position_x` instead of `barlabel.position_y`.
- Use `linepointlabel.position_x` instead of `linepointlabel.position_y`.
- Use `xaxis.tick_step_size` instead of `yaxis.tick_step_size`.
- Use single values instead of Arrays in the object `xaxis`.
- Use an Array for `yaxis.font_color` instead of a single value.

### 3 Doughnut Charts

canvas\_properties.**arc**

Attributes	Possible Values
background_color	[rgba-color codes]
width	digit >= 1 (80 recommended)

canvas\_properties.**arclabel**

Attributes	Possible Values
display	no/yes
font_color	rgba-color code
font_size	digit >= 1 (16 recommended)
position	digit (0 recommended)

canvas\_properties.**canvas**

Attributes	Possible Values
document_id	document ID
font_family	font family (Calibri recommended)
height	digit >= 1 (350 recommended)
width	digit >= 1 (550 recommended)

canvas\_properties.**chart**

Attributes	Possible Values
diameter	digit 1 - 100 (100 recommended)
orientation	ring
type	doughnut/pie
values	[digits]

### canvas\_properties.**legend**

Attributes	Possible Values
display	no/yes
font_color	rgba-color code
font_size	digit $\geq 1$ (16 recommended)
labels	[labels]
legend_to_chart_spacing	digit $\geq 0$
line_height	float $\geq 1.0$
point_to_label_spacing	digit $\geq 1$ (10 recommended)

### canvas\_properties.**legendpoint**

Attributes	Possible Values
background_color	[rgba-color codes]
border_color	[rgba-color codes]
border_width	digit $\geq 0$
position_y	digit (7 recommended)
radius	digit $\geq 0$
shape	shape  Shapes: circle, cross, discrete horizontal, discrete vertical, plus, rectangle, star, triangle



## 4 Pie Charts

- Use the properties of Doughnut Charts.
- Do not use `arc.width`.
- Use the value 'pie' for the attribute type.