

Beispiel

```
<script>
  window.onload = function ()
  { // Some data that is to be shown on the bar chart. To show a stacked or grouped chart
    // each number should be an array of further numbers instead.
    var data = [280,45,133];

    // Create the bar chart. The arguments are the ID of the canvas tag and the data
    var bar = new RGraph.Bar('myCanvas', data);

    // Now configure the chart to appear as wanted by using the .Set() method.
    // All available properties are listed below.
    bar.Set('chart.labels', ['Richard', 'Alex', 'Nick']);
    bar.Set('chart.gutter.left', 45);
    bar.Set('chart.background.barc1', 'white');
    bar.Set('chart.background.barc2', 'white');
    bar.Set('chart.background.grid', true);
    bar.Set('chart.colors', ['red']);

    // Now call the .Draw() method to draw the chart
    bar.Draw();
  }
</script>
```

Properties

You can use these properties to control how the bar chart appears. You can set them by using the Set() method. Eg:

```
myBar.Set('name', 'value');
```

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Background

chart.background.barcolor1

The color of the background bars, (1 of 2).

Default: white

chart.background.barcolor2

The color of the background bars, (2 of 2).

Default: white

chart.background.grid

Whether to show the background grid or not.

Default: true

chart.background.grid.color

The color of the background grid.

Default: #ddd

chart.background.grid.hsize

The horizontal background grid size.

Default: 40

chart.background.grid.vsize

The vertical background grid size.

Default: 18

chart.background.grid.width

The width that the background grid lines are. Decimals (eg 0.5) are permitted.

Default: 1

chart.background.grid.border

Determines whether a border line is drawn around the grid.

Default: true

chart.background.grid.hlines

Determines whether to draw the horizontal grid lines.

Default: true

chart.background.grid.vlines

Determines whether to draw the vertical grid lines.

Default: true

chart.background.grid.autofit

Instead of specifying a pixel width/height for the background grid, you can use autofit and specify how many horizontal and vertical lines you want.

Default: true

chart.background.grid.autofit.numhlines

When using autofit this allows you to specify how many horizontal grid lines you want.

Default: 5

chart.background.grid.autofit.numvlines

When using autofit this allows you to specify how many vertical grid lines you want.

Default: 20

chart.background.grid.autofit.align

If you want to have your grid lines line up with the labels (both X and Y axes), you can set this to true and RGraph will attempt to make the grid lines line up. If you have a *chart.hmargin* set then the alignment will be thrown out.

Default: false

chart.background.hbars

An array of information stipulating horizontal coloured bars. You can use these to indicate limits. Eg: *myBar.Set('hbars', [[75, 10, 'yellow'], [85, 15, 'red']]);* This would give you two bars, one red and a lower yellow bar. The units correspond to your scale, and are the starting point and the height.

Default: null

chart.background.image

If you want to specify a background image to use on your chart, specify it with this property. If you use effects with a background image on your chart it make the effect flicker.

Default: null

chart.background.image.stretch

By default your background image is stretched (if necessary) to cover the whole chart area (gutters not included). If this is not what you want then set this property to false.

Default: true

chart.background.image.x

The X position of the image. The coordinates are the top left corner of the image.

Default: null

chart.background.image.y

The Y position of the image. The coordinates are the top left corner of the image.

Default: null

chart.background.image.w

The width of the image. If you have a large canvas with many charts - you may need to specify this.

Default: null

chart.background.image.h

The height of the image. If you have a large canvas with many charts - you may need to specify this.

Default: null

chart.background.image.align

Instead of specifying the coordinates of the image, you can instead simply align it top, bottom, left or right. Examples are:

- top left

- bottom right
- bottom
- right

Default: null

Axes properties

chart.noaxes

Whether the axes are drawn

Default: false (the axes ARE drawn)

chart.noaxis

Whether the X axis is drawn

Default: false (the X axis IS drawn)

chart.noyaxis

Whether the Y axis is drawn

Default: false (the Y axis IS drawn)

chart.noendxtick

When you're combining the Bar and Line charts, you may want to use this property to stop the end X tick from being drawn.

Default: false (the end tick IS drawn)

chart.numxticks

This controls the number of X tickmarks on the X axis.

Default: null

Colors

chart.strokestyle

The color of the outline of the bars.

Default: #666

chart.colors

An array of the colors of the actual bars.

Default: An array - ['rgb(0,0,255)', '#0f0', '#00f', '#ff0', '#0ff', '#0f0']

chart.colors.sequential

If true, for regular bar charts, (not stacked or grouped), the colors that you specify will be used in a sequential fashion.

Default: false

chart.colors.reverse

If true, for stacked bar charts only, the colors that you specify will be used in a reverse order to what they are normally.

Default: false

Margins

chart.hmargin

The horizontal margin (in pixels) of the chart. The horizontal margin is on the inside of the axes.

Default: 5

chart.gutter.left

The left gutter of the chart, (the gutter is where the labels and title are)).

Default: 25

chart.gutter.right

The right gutter of the chart, (the gutter is where the labels and title are).

Default: 25

chart.gutter.top

The top gutter of the chart, (the gutter is where the labels and title are).

Default: 25

chart.gutter.bottom

The bottom gutter of the chart, (the gutter is where the labels and title are).

Default: 25

Labels and text

chart.text.color

The color of the labels.

Default: black

chart.text.size

The size (in points) of the labels.

Default: 10

chart.text.angle

The angle of the horizontal text labels (at the bottom of the chart). This can be one of three values - 0, 45 or 90.

Default: 0 (Horizontal)

chart.text.font

The font used to render the text.

Default: Verdana

chart.labels

An array of the labels to be used on the chart.

Default: An empty array

chart.labels.above

If true, values will be shown above the bars. For regular and stacked bar charts units are included, whereas for grouped bar charts they're not (usually there isn't enough space for them).

Default: false

chart.labels.above.decimals

This stipulates how many decimals are used in the above bar labels.

Default: 0

chart.labels.above.size

The font size of the above bar labels. Useful if you only have a few bars.

Default: false

chart.labels.above.angle

You can use this to angle the text shown above the bars. It can be anything from -90 to 90 (degrees).

Default: null

chart.labels.ingraph

An array of labels for the chart which are drawn "inside" the chart. If you have 5 data points then this should have a corresponding number of elements.

Default: null

chart.ylabels

Can be *true* or *false* and determines whether the chart has Y axis labels.

Default: true

chart.ylabels.count

A value that controls how many Y labels there are. Previously (prior to 8th August 2010) this could be 1,3,5. Now it can be any number, but keep in mind that if you use this it may result in decimals.

Default: 5

chart.ylabels.specific

You can use this option to give your own Y labels (eg ['Low', 'Medium', 'High']).

Default: null

chart.xlabels.offset

This allows you finer grained control over the X label positioning if you need it.

Default: 0

chart.numyticks

The number of Y tickmarks. If you have changed the number of Y labels, you may also want to change this to match.

Default: 10

Titles

chart.title

The title of the chart, if any.

Default: null

chart.title.font

The font that the title is rendered in. If not specified the chart.text.font setting is used (usually Verdana)

Default: null

chart.title.size

The size of the title. If not specified the size is usually 2pt bigger than the chart.text.size setting.

Default: null

chart.title.bold

Whether the title is bold or not.

Default: true

chart.title.background

The background color (if any) for the title.

Default: null

chart.title.color

The color of the title.

Default: black

chart.title.hpos

This allows you to completely override the horizontal positioning of the title. It should be a number between 0 and 1, and is multiplied with the whole width of the canvas and then used as the horizontal position.

Default: null

chart.title.vpos

This allows you to completely override the vertical positioning of the title. It should be a number between 0 and 1, and is multiplied with the gutter and then used as the vertical position. It can be useful if you need to have a large gutter.

Default: null

chart.title.xaxis

This allows to specify a title for the X axis.

Default: none

chart.title.xaxis.size

This allows you to specify a size for the X axis title.

Default: null

chart.title.xaxis.font

This allows to specify a font for the X axis title.

Default: null

chart.title.xaxis.bold

This controls whether the X axis title is bold or not.

Default: true

chart.title.yaxis

This allows to specify a title for the Y axis.

Default: none

chart.title.yaxis.size

This allows you to specify a size for the Y axis title.

Default: null

chart.title.yaxis.font

This allows to specify a font for the Y axis title.

Default: null

chart.title.yaxis.bold

This controls whether the Y axis title is bold or not.

Default: true

chart.title.xaxis.pos

This is multiplied with the gutter to give the position of the X axis title.

Default: 0.25

chart.title.yaxis.pos

This is multiplied with the gutter to give the position of the Y axis title.

Default: 0.25

Shadow**chart.shadow**

Whether a drop shadow is applied.

Default: false

chart.shadow.color

The color of the shadow.

Default: #666

chart.shadow.offsetx

The X offset of the shadow.

Default: 3

chart.shadow.offsety

The Y offset of the shadow.

Default: 3

chart.shadow.blur

The severity of the shadow blurring effect.

Default: 3

Scale

chart.scale.formatter

To allow thoroughly custom formats of numbers in the scale, you can use this option to specify a function that is used by RGraph to format numbers. This function should handle ALL of the formatting. Eg:

```
function myFormatter(obj, num)
{
  return num + 'F'; // An example of formatting
}
myGraph.Set('chart.scale.formatter', myFormatter);
```

Default: null

chart.scale.decimals

The number of decimal places to display for the Y scale.

Default: 0

chart.scale.point

The character used as the decimal point.

Default: .

chart.scale.thousand

The character used as the thousand separator

Default: ,

chart.units.pre

The units that the Y axis is measured in. This string is displayed BEFORE the actual number, allowing you to specify values such as "\$50".

Default: none

chart.units.post

The units that the Y axis is measured in. This string is displayed AFTER the actual number, allowing you to specify values such as "50ms".

Default: none

chart.ymax

The optional maximum Y scale value. If not specified then it will be calculated.

Default: null (It's calculated)

chart.ymin

The optional minimum Y scale value. If not specified then it will be 0.

Default: 0

Key

chart.key

An array of key information.
Default: [] (An empty array)

chart.key.background

The color of the key background. Typically white, you could set this to something like `rgba(255,255,255,0.7)` to allow people to see things behind it.
Default: white

chart.key.halign

Instead of specifying the exact x/y coordinates, you can use this property to simply specify whether the key should be aligned *left* or *right*.
Default: right

chart.key.position

Determines the position of the key. Either **graph** (default), or **gutter**.
Default: graph

chart.key.position.x

This allows you to specify a specific X coordinate for the key.
Default: null

chart.key.position.y

This allows you to specify a specific Y coordinate for the key.
Default: null

chart.key.position.gutter.boxed

If you have the key in gutter mode (ie horizontal), this allows you to give a background color.
Default: true

chart.key.shadow

Whether a small drop shadow is applied to the key.
Default: false

chart.key.shadow.color

The color of the shadow.
Default: #666

chart.key.shadow.blur

The extent of the blurring effect used on the shadow.
Default: 3

chart.key.shadow.offsetx

The X offset of the shadow.
Default: 2

chart.key.shadow.offsety

The Y offset of the shadow.

Default: 2

chart.key.rounded

This controls whether the corners of the key (in graph mode) are curved. If the key is gutter mode, this has no effect.

Default: false

chart.key.color.shape

This can be *square*, *circle* or *line* and controls how the color indicators in the key appear.

Default: square

chart.key.linewidth

The line width of the surrounding border on the key.

Default: 1

Interactive features

chart.contextmenu

An array of context menu items.

Default: [] (An empty array)

chart.tooltips

A numerically indexed array of tooltips that are shown when a bar is clicked. These can contain HTML.

Default: null

chart.tooltips.effect

The animated effect used for showing tooltips. Can be either *fade* or *expand*.

Default: fade

chart.tooltips.event

This is the event that triggers the tooltips. It can be either *onclick* or *onmousemove*.

Default: onclick

chart.tooltips.css.class

This is the name of the CSS class the chart uses.

Default: RGraph_tooltip

chart.tooltips.override

If you wish to handle showing tooltips yourself, this should be a function object which does just that.

Default: null

chart.tooltips.highlight

When combining chartss you will need to set this option to false.

Default: true

chart.crosshairs

If true, you will get a crosshair centering on the current mouse position.

Default: false

chart.crosshairs.linewidth

This controls the linewidth of the crosshairs.

Default: 1

chart.crosshairs.color

The color of the crosshairs.

Default: #333

chart.crosshairs.hlines

This determines whether the horizontal crosshair is shown.

Default: true

chart.crosshairs.vlines

This determines whether the vertical crosshair is shown.

Default: true

chart.annotatable

Whether annotations are enabled for the chart (ie you can draw on the chart interactively).

Default: false

chart.annotate.color

If you do not allow the use of the palette, then this will be the only colour allowed for annotations.

Default: black

chart.resizable

Defaulting to false, this determines whether your chart will be resizable. Because of the numerous event handlers this has to install code on, This feature is unlikely to work with other dynamic features (the context menu is fine however).

Default: false

chart.resize.handle.background

With this you can specify the background color for the resize handle. If you're adjusting the position of the handle then you may need this to make the handle stand out more.

Default: null

chart.adjustable

Defaulting to false, this determines whether your bar chart will be adjustable.

Default: false

Zoom

chart.zoom.factor

This is the factor that the chart will be zoomed by (bigger values means more zoom)

Default: 1.5

chart.zoom.fade.in

Whether the zoomed canvas fades in or not. This also can be used to control the fade in

for the zoom in thumbnail mode.

Default: true

chart.zoom.fade.out

Whether the zoomed canvas fades out or not. This also can be used to control the fade in for the zoom in thumbnail mode.

Default: true

chart.zoom.hdir

The horizontal direction of the zoom. Possible values are: *left, center, right*

Default: right

chart.zoom.vdir

The vertical direction of the zoom. Possible values are: *up, center, down*

Default: down

chart.zoom.delay

The delay (in milliseconds) between frames.

Default: 50

chart.zoom.frames

The number of frames in the zoom animation.

Default: 10

chart.zoom.shadow

Whether or not the zoomed canvas has a shadow or not.

Default: true

chart.zoom.background

Defaulting to true, this determines whether the zoom has a dark, semi-opaque background that covers the entire web page.

Default: true

Events

chart.events.click

If you want to add your own *onclick* function you can do so by assigning it to this property.

Default: null

chart.events.mousemove

If you want to add your own *onmousemove* function you can do so by assigning it to this property.

Default: null

Miscellaneous

chart.highlight.stroke

If you use tooltips, this controls the colour of the highlight stroke.

Default: black

chart.highlight.fill

If you use tooltips, this controls the colour of the highlight fill.

Default: rgba(255,255,255,0.5)

chart.line

Formerly a boolean, this now stipulates a line chart object which is to be drawn on top of the bar chart.

Default: null

chart.variant

This simply stipulates whether you want a regular bar chart, a dot chart, a pyramid chart a 3D chart, a sketch or a glassy chart. Possible values are:

- bar
- dot
- pyramid
- arrow
- 3d
- sketch
- glass

The pyramid, dot, arrow, sketch and glass variants are only effective for regular bar charts - not grouped or stacked charts.

Default: bar

chart.xaxispos

The position of the X axis. This can be *bottom*, *center* or *top*.

Default: bottom

chart.axis.color

The color of the axes.

Default: black

chart.grouping

How the bars are grouped, and it should be one of: **grouped** or **stacked**

Default: grouped

Methods

obj.getShape(event)

This method makes it easier to get hold of which bar has been clicked on, or hovered over. It returns an array of:

- The chart object
- The X coordinate
- The Y coordinate

- The width of the bar
- The height of the bar
- The numerical index of the bar. This corresponds (for example) to the tooltips array, and the coordinates array

The shape also includes textual indexes like this: *shape['object']* And they are:

- object
- x
- y
- width
- height
- tooltip
- index

An example usage is:

```
<canvas id="cvs" width="600" height="250">[No canvas support]</canvas>
```

```
<script src="RGraph.common.core.js"></script>
```

```
<script src="RGraph.bar.js"></script>
```

```
<script>
```

```
myGraph = new RGraph.Bar('myCanvas', [1.2, 1.3, 1.4, 1.5,6,1.9,2,2.1,2.5]);
```

```
myGraph.Set('chart.labels', ['John', 'Barry', 'Rich', 'Craig', 'Tom', 'Frank', 'Helen', 'Joyce', 'Fred']);
```

```
myGraph.Draw();
```

```
RGraph.Register(myGraph);
```

```
myGraph.canvas.onclick = function (e)
```

```
{    RGraph.Redraw();
```

```
    var canvas = e.target;
```

```
    var context = canvas.getContext('2d');
```

```
    var obj    = canvas.__object__;
```

```
    var coords = obj.getShape(e);
```

```
    if (coords) {
```

```
        var top    = coords[1];
```

```
        var left   = coords[2];
```

```
        var width  = coords[3];
```

```
        var height = coords[4];
```

```
        context.beginPath();
```

```
            context.strokeStyle = 'black';
```

```
            context.fillStyle = 'rgba(255,255,255,0.5)';
```

```
            context.strokeRect(top, left, width, height);
```

```
            context.fillRect(top, left, width, height);
```

```
        context.stroke();
```

```
        context.fill();
```

```
    }
```

```
}
```

```
</script>
```

obj.getShapeByX(event)

This method is similar to the above, but only uses the X coordinate to get the relevant bar.

obj.getValue(mixed)

This method can be used to get the value at a particular point or at the mouse coordinates, based on the scale that is in use. Not simply the coordinates of the mouse. The argument can either be an event object (for use in event listener functions) OR a two element array consisting of the X and Y coordinates (ie when you're not necessarily in an event listener). It returns null if the mouse or coordinates are in the gutter areas. An example:

```
myChart.canvas.onclick = function (e)
{   var obj   = e.target.__object__;
    var value = obj.getValue(e);

    // ...
}
```

Note about the *data_arr* array

Sometimes you may wish to view your data as one big array, instead of one array per dataset. In this case the *obj.data_arr* is available. This is one long array containing all of the individual data points.

Beispiel:

```
<html>
<head>   <title>RGRaph - Säulendiagramm</title>

<script src="RGraph.common.core.js"></script>
<script src="RGraph.bar.js"></script>

<script>
  window.onload = function ()
  {   var data = [[8,7,9]];
      var bar = new RGraph.Bar('canvas', data);
      bar.Set('chart.labels', ['ARD', 'ZDF','RTL']);
      bar.Set('chart.gutter.left', 80);
      bar.Set('chart.gutter.top', 80);
      bar.Set('chart.text.font', 'Verdana');
      bar.Set('chart.text.size', 15);
      bar.Set('chart.text.color', '#0000ff');
      bar.Set('chart.title','Zuschauerzahlen');
      bar.Set('chart.hmargin', 15);
      bar.Set('chart.hmargin.grouped', 20);
      bar.Set('chart.colors', ['#ff0000','#ffff00','#cdff00']);
      bar.Draw();   }
</script>
</head>

<body >
  <canvas id="canvas" height="400" width="600">   </canvas>
</body>
</html>
```


RGraph-Standard - Mozilla Firefox

file:///F:/Sporenberg/PowerPoint_Einfuehrungen/JavaScript/RGraph/Programme_Html/RG

Meistbesuchte Seiten Erste Schritte Aktuelle Nachrichten

A Bar chart with 3... RGraph-Standard A grouped Bar chart A Bar chart with p... A

Zuschauerzahlen

