jpgraph

(mPDF >= 2.4)

jpgraph — Generate a graph from table data (requires JPGraph integration)

Description

<**jpgraph** [*table*] [*type*] [*stacked*] [*dpi*] [*title*] [*splines*] [*bandw*] [*antialias*] [*label-y*] [*label-x*] [*axis-x*] [*axis-y*] [*percent*] [*series*] [*data-col-begin*] [*data-row-begin*] [*data-col-end*] [*data-row-end*] [*show-values*] [*width*] [*height*] [*legend-overlap*] [*hide-grid*] [*hide-y-axis*] />

Generates and inserts a graph into the document at the current writing position. <jpgraph> must follow the table which it refers to (not necessarily immediately). Requires *useGraphs* set to **TRUE**.

Note: This requires JPGraph to be installed on the server. See Graphs for further information.

Attributes

table

This attribute (optionally) specifies the table "id" or "name" from which to use data.
BLANK or omitted - uses data from the most recent table (in order of the HTML code being parsed) as long as the table did not have an "id" or "name" defined.

type

Specifies the type of graph.
BLANK or omitted uses the default value.

Values (case-insensitive)
bar
horiz_bar (horizontal bar graph)
line
radar
pie
pie3d
xy
scatter
DEFAULT: bar

Graphs of type xy or scatter will expect exactly two columns/rows of numerical data - giving X and Y co-ordinates respectively. In the xy graph, the x values need to be in numerical order.

stacked = 1|0

Specifies whether to "stack" bars in graphs of type *bar* or *horizontal-bar*.
BLANK or omitted uses default value.
DEFAULT: 0 (OFF)

dpi

Sets the image resolution of the graph in dots per inch (dpi). NB Large values will use extensive amounts of memory.
BLANK or omitted uses default value.

Values
INTEGER: between 50 - 2400
DEFAULT: 150

title

Specifies a text string to use atitle for the graph

splines = 1|0

Specify whether to smooth lines for *xy*-type line graphs
DEFAULT: 0

bandw = 1|0

Specify whether to create a black and white graph
DEFAULT: 0 (colour)

antialias = 1|0

Specify whether to use antialias in generating the graphs.
If antialias is used better quality curves are produced, but graph lines will only be 1px wide - which will be very thin when using higher resolutions e.g. 300dpi (this is a limitation set by JPGraph)
DEFAULT: 1 (use antialias) for all types except *line* and *radar*.

label-y

Specifies a text string to use a label across the y-axis

label-x

Specifies a text string to use a label across the x-axis

axis-x

Specify the scale or type of x-axis.

Values (case-insensitive)
text: uses text labels for the x-axis
lin: use a linear scale
log: use a logarithmic scale
DEFAULT: text (except if splines are set when it will default to 'lin')

axis-y

Specify the scale or type of y-axis.

Values (case-insensitive)
lin: use a linear scale for the y-axis
percent: show a percent sign on a linear scale
log: use a logarithmic scale
DEFAULT: lin

percent = 1|0

Specify whether to graph the data as percentages of the series total. This useful if you have 2 series of data to compare such as the number of cycle accidents per age group compared with the population broken down by age group.
DEFAULT: 0

series

Specify whether the table data has the data series in columns or rows.

Values (case-sensitive)
cols: data series are read from table columns

rows: data series are read from table rows
DEFAULT:cols

data-col-begin

Specify the column number to start reading data

Values
INTEGER:
DEFAULT: 2 (except *scatter* and *xy* and *series*='cols', when = 1)

data-row-begin

Specify the row number to start reading data

Values
INTEGER:
DEFAULT: 2 (except *scatter* and *xy* and *series*='rows', when = 1)

data-col-end

Specify the last column number to contain data.

Values
0: Read data up to, and including, the last column
POSITIVE INTEGER: Specify the last column by number to include data
NEGATIVE INTEGER: Specify the column reading from the last column e.g. "-2" = 2nd column from last
DEFAULT: 0

data-row-end

Specify the last row number to contain data.

Values
0: Read data up to, and including, the last row
POSITIVE INTEGER: Specify the last row by number to include data
NEGATIVE INTEGER: Specify the row reading from the last row e.g. "-2" = 2nd row from last
DEFAULT: 0

show-values = 1|0

Specify whether to show the value for each data point
DEFAULT: 0

width
height

Specify width and/or height fro the graph. If only one is specified, the graph is resized in proportion to the default sizings.

Values
Any valid CSS value including 100%, 300px etc. If no units are defined, pixels are assumed.
DEFAULT: Values are set according to graph type (in graph.php)

```
$defsize['pie'] = array('w' => 600, 'h' => 300);
$defsize['pie3d'] = array('w' => 600, 'h' => 300);
$defsize['radar'] = array('w' => 600, 'h' => 300);
$defsize['line'] = array('w' => 600, 'h' => 400);
$defsize['xy'] = array('w' => 600, 'h' => 400);
$defsize['scatter'] = array('w' => 600, 'h' => 400);
$defsize['bar'] = array('w' => 600, 'h' => 400);
$defsize['horiz_bar'] = array('w' => 600, 'h' => 500);
```

legend-overlap = 1|0

Specify whether to overlap the legend box over the graph (ignored for *pie*, *pie3d* and *radar*)
DEFAULT: 0

hide-grid = 1|0

Specify whether to hide the grid lines (ignored for *pie*, *pie3d* and *radar*)
DEFAULT: 0

hide-y-axis = 1|0

Specify whether to hide the whole y-axis - including the grid lines (ignored for *pie*, *pie3d* and *radar*)
DEFAULT: 0

Note: Other attributes or styles supported by <img> can be used, except for *width* and *height* (which are ignored) and of course *src*.

Changelog

Version	Description
2.4	The function was added.

Examples

Example #1

```
<?php

include("../mpdf.php");

define("_JPGRAPH_PATH", '../../jpgraph_5/src/'); // must define this before including mpdf.php
file

define("_TTF_FONT_NORMAL", 'arial.ttf');
define("_TTF_FONT_BOLD", 'arialbd.ttf');

$mpdf=new mPDF();

$mpdf->useGraphs = true;

$html = '
<table id="tbl_1"><tbody>
<tr><td></td><td><b>Female</b></td><td><b>Male</b></td></tr>
<tr><td>35 - 44</td><td><b>4</b></td><td><b>2</b></td></tr>
<tr><td>45 - 54</td><td><b>5</b></td><td><b>7</b></td></tr>
<tr><td>55 - 64</td><td><b>21</b></td><td><b>18</b></td></tr>
<tr><td>65 - 74</td><td><b>11</b></td><td><b>14</b></td></tr>
<tr><td>75 - 84</td><td><b>10</b></td><td><b>10</b></td></tr>
<tr><td>85 - 94</td><td><b>2</b></td><td><b>1</b></td></tr>
<tr><td>95 - 104</td><td><b>1</b></td><td><b></b></td></tr>
<tr><td>TOTAL</td><td>54</td><td>52</td></tr>
</tbody></table>

<jpgraph table="tbl_1" type="bar" stacked="0" dpi="300" title="New subscriptions" splines="1"
bandw="0" antialias="1" label-y="% patients" label-x="Age group" axis-x="text" axis-y="lin"
percent="0"  series="cols" data-col-begin="2" data-row-begin="2" data-col-end="0" data-row-
end="-1" show-values="1" width="600" legend-overlap="1" hide-grid="1" hide-y-axis="1" />
';

$mpdf->WriteHTML($html );
$mpdf->Output();
exit;
?>
```

See Also

- useGraphs - Parse table data from the HTML, and allow the use of <jpgraph>
- Graphs - More about JPGraph and graphs