
Python Google Chart Documentation

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pygooglechart Module

pygooglechart - A complete Python wrapper for the Google Chart API

<http://pygooglechart.slowchop.com/>

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exception `pygooglechart.AbstractClassException`

Bases: `pygooglechart.PyGoogleChartException`

class `pygooglechart.Axis` (*axis_index*, *axis_type*, ***kw*)

Bases: `object`

BOTTOM = 'x'

LEFT = 'y'

RIGHT = 'r'

TOP = 't'

TYPES = ('x', 't', 'y', 'r')

positions_to_url ()

set_index (*axis_index*)

set_positions (*positions*)

set_style (*colour*, *font_size*=None, *alignment*=None)

style_to_url ()

exception `pygooglechart.BadContentTypeException`

Bases: `pygooglechart.PyGoogleChartException`

class `pygooglechart.BarChart` (**args*, ***kwargs*)

Bases: `pygooglechart.Chart`

get_url_bits (*data_class=None, skip_chbh=False*)

set_bar_width (*bar_width*)

set_zero_line (*index, zero_line*)

class `pygooglechart.Chart` (*width, height, title=None, legend=None, colours=None, auto_scale=True, x_range=None, y_range=None, colours_within_series=None*)

Bases: `object`

Abstract class for all chart types.

width are height specify the dimensions of the image. title sets the title of the chart. legend requires a list that corresponds to datasets.

ALPHA = 'a'

BACKGROUND = 'bg'

BASE_URL = 'http://www.google.com/chart'

CHART = 'c'

LINEAR_GRADIENT = 'lg'

LINEAR_STRIPES = 'ls'

SOLID = 's'

VALID_SOLID_FILL_TYPES = ('bg', 'c', 'a')

add_data (*data*)

add_data_line (*colour, data_set, size, priority=0*)

add_fill_range (*colour, index_start, index_end*)

add_fill_simple (*colour*)

add_horizontal_range (*colour, start, stop*)

add_marker (*index, point, marker_type, colour, size, priority=0*)

add_marker_text (*string, colour, data_set, data_point, size, priority=0*)

add_vertical_range (*colour, start, stop*)

annotated_data ()

axis_to_url ()

data_class_detection (*data*)

Determines the appropriate data encoding type to give satisfactory resolution (http://code.google.com/apis/chart/#chart_data).

data_to_url (*data_class=None*)

data_x_range ()

Return a 2-tuple giving the minimum and maximum x-axis data range.

data_y_range ()

Return a 2-tuple giving the minimum and maximum y-axis data range.

download (*file_name=False, use_post=True*)

fill_linear_gradient (*area, angle, *args*)

fill_linear_stripes (*area, angle, *args*)

fill_solid (*area, colour*)


```
fill_to_url ()
get_url (data_class=None)
get_url_bits (data_class=None)
get_url_extension (data_class=None)
markers_to_url ()
scaled_data (data_class, x_range=None, y_range=None)
    Scale self.data as appropriate for the given data encoding (data_class) and return it.

    An optional y_range – a 2-tuple (lower, upper) – can be given to specify the y-axis bounds. If not given,
    the range is inferred from the data: (0, <max-value>) presuming no negative values, or (<min-value>,
    <max-value>) if there are negative values. self.scaled_y_range is set to the actual lower and upper scaling
    range.

    Ditto for x_range. Note that some chart types don't have x-axis data.
set_axis_labels (axis_type, values)
set_axis_positions (axis_index, positions)
set_axis_range (axis_type, low, high)
set_axis_style (axis_index, colour, font_size=None, alignment=None)
set_colours (colours)
set_colours_within_series (colours)
set_grid (x_step, y_step, line_segment=1, blank_segment=0)
set_legend (legend)
    legend needs to be a list, tuple or None
set_legend_position (legend_position)
    Sets legend position. Default is 'r'.

    b - At the bottom of the chart, legend entries in a horizontal row. bv - At the bottom of the chart, legend
    entries in a vertical column. t - At the top of the chart, legend entries in a horizontal row. tv - At the top
    of the chart, legend entries in a vertical column. r - To the right of the chart, legend entries in a vertical
    column. l - To the left of the chart, legend entries in a vertical column.
set_line_style (index, thickness=1, line_segment=None, blank_segment=None)
set_title (title)
set_title_style (colour=None, font_size=None)
class pygooglechart.ChartGrammar
    Bases: object
    create_chart_instance (grammar=None)
    download ()
    static get_possible_chart_types ()
    parse (grammar)
    parse_data (data)
class pygooglechart.Data (data)
    Bases: object
    static check_clip (scaled, clipped)
```

```
classmethod clip_value (value)

classmethod float_scale_value (value, range)

classmethod int_scale_value (value, range)

classmethod scale_value (value, range)

exception pygooglechart.DataOutOfRangeException
    Bases: pygooglechart.PyGoogleChartException

class pygooglechart.ExtendedData (data)
    Bases: pygooglechart.Data

    enc_map = 'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-.'
    max_value = 4095

class pygooglechart.GoogleOMeterChart (*args, **kwargs)
    Bases: pygooglechart.PieChart

    Inheriting from PieChart because of similar labeling

    type_to_url ()

class pygooglechart.GroupedBarChart (*args, **kwargs)
    Bases: pygooglechart.BarChart

    get_url_bits (data_class=None)

    set_bar_spacing (spacing)
        Set spacing between bars in a group.

    set_group_spacing (spacing)
        Set spacing between groups of bars.

class pygooglechart.GroupedHorizontalBarChart (*args, **kwargs)
    Bases: pygooglechart.GroupedBarChart

    type_to_url ()

class pygooglechart.GroupedVerticalBarChart (*args, **kwargs)
    Bases: pygooglechart.GroupedBarChart

    annotated_data ()

    type_to_url ()

exception pygooglechart.InvalidParametersException
    Bases: pygooglechart.PyGoogleChartException

class pygooglechart.LabelAxis (axis_index, axis_type, values, **kwargs)
    Bases: pygooglechart.Axis

class pygooglechart.LineChart (*args, **kwargs)
    Bases: pygooglechart.Chart

class pygooglechart.MapChart (*args, **kwargs)
    Bases: pygooglechart.Chart

    add_data_dict (datadict)
        Sets the data and country codes via a dictionary.

        i.e. {'DE': 50, 'GB': 30, 'AT': 70}

    get_url_bits (data_class=None)
```

set_codes (*codes*)
Set the country code map for the data. Codes given in a list.

i.e. **DE - Germany** **AT - Austria** **US - United States**

set_geo_area (*area*)
Sets the geo area for the map.

- africa
- asia
- europe
- middle_east
- south_america
- usa
- world

type_to_url ()

exception `pygooglechart.NoDataGivenException`
Bases: `pygooglechart.PyGoogleChartException`

class `pygooglechart.PieChart` (**args, **kwargs*)
Bases: `pygooglechart.Chart`

annotated_data ()

get_url_bits (*data_class=None*)

scaled_data (*data_class, x_range=None, y_range=None*)

set_pie_labels (*labels*)

class `pygooglechart.PieChart2D` (**args, **kwargs*)
Bases: `pygooglechart.PieChart`

type_to_url ()

class `pygooglechart.PieChart3D` (**args, **kwargs*)
Bases: `pygooglechart.PieChart`

type_to_url ()

exception `pygooglechart.PyGoogleChartException`
Bases: `exceptions.Exception`

class `pygooglechart.QRChart` (**args, **kwargs*)
Bases: `pygooglechart.Chart`

data_to_url (*data_class=None*)

get_url_bits (*data_class=None*)

set_ec (*level, margin*)

set_encoding (*encoding*)

type_to_url ()

class `pygooglechart.RadarChart` (*width, height, title=None, legend=None, colours=None, auto_scale=True, x_range=None, y_range=None, colours_within_series=None*)
Bases: `pygooglechart.Chart`

```
    type_to_url()

class pygooglechart.RangeAxis (axis_index, axis_type, low, high, **kwargs)
    Bases: pygooglechart.Axis

class pygooglechart.ScatterChart (width, height, title=None, legend=None, colours=None,
                                   auto_scale=True, x_range=None, y_range=None,
                                   colours_within_series=None)
    Bases: pygooglechart.Chart

    annotated_data()

    type_to_url()

class pygooglechart.SimpleData (data)
    Bases: pygooglechart.Data

    enc_map = 'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789'

    max_value = 61

class pygooglechart.SimpleLineChart (*args, **kwargs)
    Bases: pygooglechart.LineChart

    annotated_data()

    type_to_url()

class pygooglechart.SparkLineChart (*args, **kwargs)
    Bases: pygooglechart.SimpleLineChart

    type_to_url()

class pygooglechart.SplineRadarChart (width, height, title=None, legend=None, colours=None,
                                       auto_scale=True, x_range=None, y_range=None,
                                       colours_within_series=None)
    Bases: pygooglechart.RadarChart

    type_to_url()

class pygooglechart.StackedHorizontalBarChart (*args, **kwargs)
    Bases: pygooglechart.BarChart

    type_to_url()

class pygooglechart.StackedVerticalBarChart (*args, **kwargs)
    Bases: pygooglechart.BarChart

    annotated_data()

    type_to_url()

class pygooglechart.TextData (data)
    Bases: pygooglechart.Data

    max_value = 100

    classmethod scale_value (value, range)

exception pygooglechart.UnknownChartType
    Bases: pygooglechart.PyGoogleChartException

exception pygooglechart.UnknownCountryCodeException
    Bases: pygooglechart.PyGoogleChartException

exception pygooglechart.UnknownDataTypeException
    Bases: pygooglechart.PyGoogleChartException
```

```
class pygooglechart.VennChart (width, height, title=None, legend=None, colours=None,
                                auto_scale=True, x_range=None, y_range=None,
                                colours_within_series=None)
    Bases: pygooglechart.Chart

    annotated_data ()

    type_to_url ()

class pygooglechart.XYLineChart (*args, **kwargs)
    Bases: pygooglechart.LineChart

    annotated_data ()

    type_to_url ()
```

Examples

all Module

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bar Module

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```
bar.grouped_horizontal()
```

```
bar.grouped_vertical()
```

```
bar.main()
```

```
bar.stacked_horizontal()
```

```
bar.stacked_vertical()
```

helper Module

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```
helper.random_colour (min=20, max=200)
```

```
helper.random_data (points=50, maximum=100)
```

labels Module

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```
labels.cat_proximity()
```

Cat proximity graph from <http://xkcd.com/231/>

```
labels.main()
```

```
labels.many_labels()
```

line Module

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```
line.fill()
```



```
line.main()
line.simple_random()
line.sparklines()
line.stripes()
line.xy_circle()
line.xy_random()
line.xy_rect()
```

mapchart Module

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```
mapchart.birth_rate()
mapchart.main()
```

pie Module

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```
pie.hello_world()
pie.house_explosions()
    Data from http://indexed.blogspot.com/2007/12/meltdown-indeed.html
pie.main()
```

qrcores Module

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```
qrcores.hello()  
qrcores.main()
```

scatter Module

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```
scatter.main()  
scatter.scatter_circle()  
scatter.scatter_random()  
scatter.scatter_random_marker_sizes()
```

settings Module

venn Module

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```
venn.main()
```

```
venn.ultimate_power()
```

```
    Data from http://indexed.blogspot.com/2007/08/real-ultimate-power.html
```

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