
FREE eBook
LEARNING
google-visualization
Free unaffiliated eBook created from
Stack Overflow contributors.
#google-
visualization

Table of Contents

About

You can share this PDF with anyone you feel could benefit from it, downloaded the latest version from: google-visualization

It is an unofficial and free google-visualization ebook created for educational purposes. All the content is extracted from Stack Overflow Documentation, which is written by many hardworking individuals at Stack Overflow. It is neither affiliated with Stack Overflow nor official google-visualization.

Use the content presented in this book at your own risk; it is not guaranteed to be correct nor accurate, please send your feedback and corrections to info@zzzprojects.com

Chapter 1: Getting started with google-visualization

Remarks

Google Visualization provides a flexible javascript-based framework for creating a wide variety of interactive charts that can be embedded on webpages. Those chart types include:

- Geo Charts
- Scatter Charts
- Column Charts
- Bar Charts
- Histograms
- Combo Charts
- Area Charts
- Stepped Area Charts
- Line Charts
- Bubble Charts
- Pie Charts
- Donut Charts
- Org Charts
- Tree Maps
- Tables
- Timelines
- Gauges
- Candelstick Charts

Charts created with Google Visualization can be use data from a variety of sources including JSON, Google Spreadsheets, as well as hardcoded arrays written in Javascript.

The Google Visualization API also allows you to filter the data, as well as linking multiple charts to a single data source to create interactive dashboards showing several dimensions of the same data.

Versions

Version	Syntax for Selecting this Version	Release Date
Current	`google.charts.load('current', {packages: ['corechart']});`	2016-02-23
44	`google.charts.load('44', {packages: ['corechart']});`	2016-02-23
43	`google.charts.load('43', {packages: ['corechart']});`	2015-10-02
42	`google.charts.load('42', {packages: ['corechart']});`	2015-04-30

Version	Syntax for Selecting this Version	Release Date
41	`google.charts.load('41', {packages: ['corechart']});`	2015-02-23

Full list of past releases here.

Examples

Loading and Running

Google currently has two ways to load the JS library for Google Visualization (a.k.a Google Charts), **gstatic loader** (`https://www.gstatic.com/charts/loader.js`) and **jsapi** (`https://www.google.com/jsapi`).

> The gstatic loader is recommended because Google is transitioning away from jsapi to the gstatic loader. See transition reference

In either case, you must first include one of the loaders with a `script` tag, typically in the `head` of your document, like this:

```
<script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>
```

Once you have included the loader in your webpage, you can use it to load the desired library packages by calling a `load` function.

For Loader.js

```
google.charts.load('current', {packages: ['corechart']});
```

For JSAPI

```
google.load('visualization', '1', {'packages':['corechart']});
```

But after you load the library packages, you must wait for them to finish being loaded before proceeding to use them. The way to wait is to set up a callback by calling a `setOnLoadCallback` function.

Sample Code (for the gstatic loader):

```
<script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>
<script>
 google.charts.load('current', {packages: ['corechart']});
 google.charts.setOnLoadCallback(drawChart);
      function drawChart() {

        var data = new google.visualization.DataTable();
        data.addColumn('string', 'Group');
        data.addColumn('number', 'Gender');
        data.addRows([
          ['Males', 10],
```

```
          ['Females', 5]
        ]);

        var options = {
            'title':'Gender distribution',
            'width':300,
            'height':300};
        var chart = new google.visualization.PieChart(
            document.getElementById('gender_chart'));
        chart.draw(data, options);
      }
    </script>
```

HTML:

```
<div id="gender_chart"></div>
```

JSFIDDLE

Read Getting started with google-visualization online: https://riptutorial.com/google-visualization/topic/3546/getting-started-with-google-visualization

Credits

S. No	Chapters	Contributors
1	Getting started with google-visualization	Community, dlaliberte, jmac, Pirate X