

Creating Charts with Google Charts

Google Charts is a free JavaScript library that can create professional graphs and charts using your data.

Google Charts can display:

- Pie Charts
- Bar Charts
- Column Charts
- Line Charts
- Area Charts

In this tutorial you will create your first chart using sample data.

Step 1 - Load the Google Charts Library

Add the following line inside the `<head>` section of your webpage.

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

Step 2 - Create a Chart Container

Add a `div` where the chart will be displayed.

```
<div id="chart_div"
  style="width:800px; height:500px;">
</div>
```

Step 3 - Create the Chart

Add the following JavaScript before the closing `</body>` tag.

```
<script>

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

google.charts.setOnLoadCallback(drawChart);

function drawChart()
{
  var data =
    google.visualization.arrayToDataTable([

      ['Risk Level', 'Count'],

      ['Low',15],

      ['Medium',8],

      ['High',3]

    ]);

  var options = {

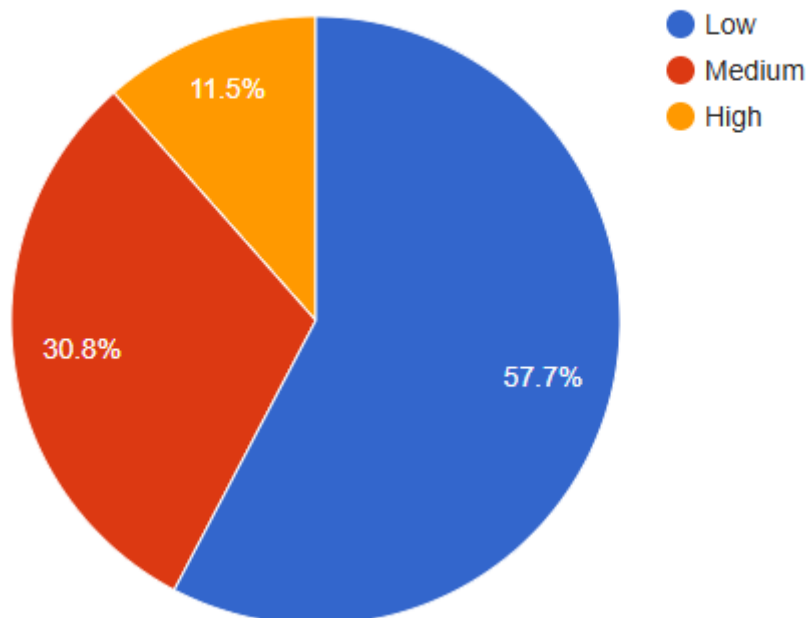
    title:'Security Events by Risk Level'

  };
```

```
var chart =  
    new google.visualization.PieChart(  
  
        document.getElementById('chart_div')  
  
    );  
  
    chart.draw(data, options);  
  
}
```

</script>

Security Events by Risk Level



Understanding the Data

Google Charts uses an array to store chart data.

```
[  
    ['Risk Level', 'Count'],
```

```
[ 'Low' ,15],  
  
[ 'Medium' ,8],  
  
[ 'High' ,3]  
]
```

The first row contains the headings.

The remaining rows contain the data values.

Changing the Chart Type

The chart type is controlled by:

```
google.visualization.PieChart
```

You can change it to:

Chart	Class
Pie Chart	PieChart
Column Chart	ColumnChart
Bar Chart	BarChart
Line Chart	LineChart
Area Chart	AreaChart

Example:

```
google.visualization.BarChart
```

will display the same data as a bar chart.

Complete Example

```
<!DOCTYPE html>

<html>

<head>

    <title>Google Charts Example</title>

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

</head>

<body>

<div id="chart_div"
    style="width:800px; height:500px;">
</div>

<script>

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

google.charts.setOnLoadCallback(drawChart);

function drawChart()
{

    var data =
        google.visualization.arrayToDataTable([

            ['Risk Level', 'Count'],

            ['Low',15],

            ['Medium',8],
```

```
        ['High',3]

    });

    var options = {

        title:'Security Events by Risk Level'

    };

    var chart =
        new google.visualization.PieChart(

            document.getElementById('chart_div')

        );

    chart.draw(data, options);

}

</script>

</body>

</html>
```

Next Tutorial

Pie Charts from SQL Data

Instead of manually entering the data, you will learn how to retrieve information from a MySQL database and display it automatically in a Google Chart.

Revision #2

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