

Gráficos desde PHP Google Charts

Programación Web Avanzada

Pasos a seguir

- Incluir biblioteca JS
- Obtener datos
- Cargar datos (datatable)
- Instanciar gráfico
- Configurar gráfico
- Dibujar gráfico

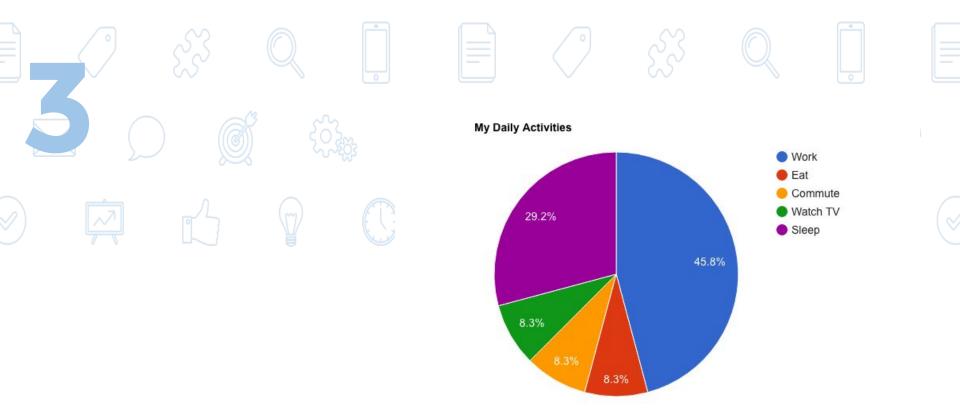


Gráfico de Torta

Google chart - pie





<head>

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

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</script>

</head>

<body>

<div id="piechart" style="width: 900px; height: 500px;"></div>

</body>

</html>





```
<script type="text/javascript">
  google.charts.load('current', {'packages':['corechart']});
  google.charts.setOnLoadCallback(drawChart);
  function drawChart() {
   var data = google.visualization.arrayToDataTable([
    ['Task', 'Hours per Day'],
    ['Work', 11],
    ['Eat', 2],
    ['Commute', 2],
    ['Watch TV', 2],
    ['Sleep', 7]
   ]);
 var chart = new google.visualization.PieChart(document.getElementById('piechart'));
   chart.draw(data, options);
 </script>
```

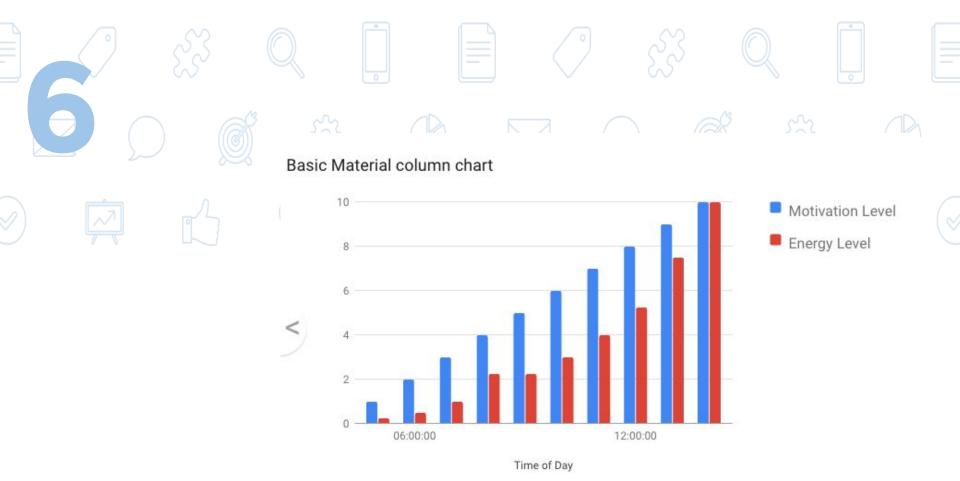
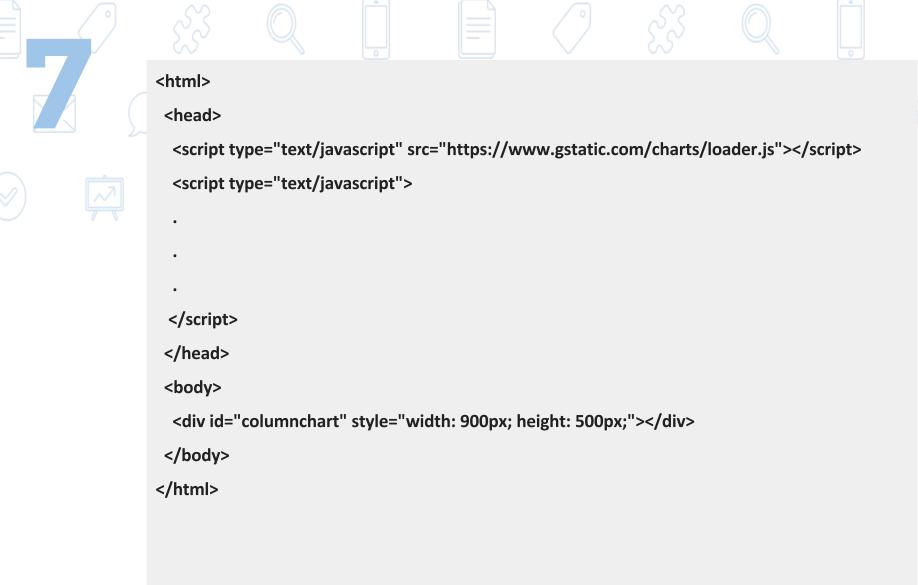


Gráfico de Barras verticales

Google chart - column







```
<script type="text/javascript">
  google.charts.load('current', {'packages':['corechart']});
  google.charts.setOnLoadCallback(drawChart);
  function drawChart() {
   var data = google.visualization.arrayToDataTable([
    ['Task', 'Hours per Day'],
    ['Work', 11],
    ['Eat', 2],
    ['Commute', 2],
    ['Watch TV', 2],
    ['Sleep', 7]
   ]);
 var chart = new google.visualization.ColumnChart(document.getElementById('columnchart'));
   chart.draw(data, options);
 </script>
```

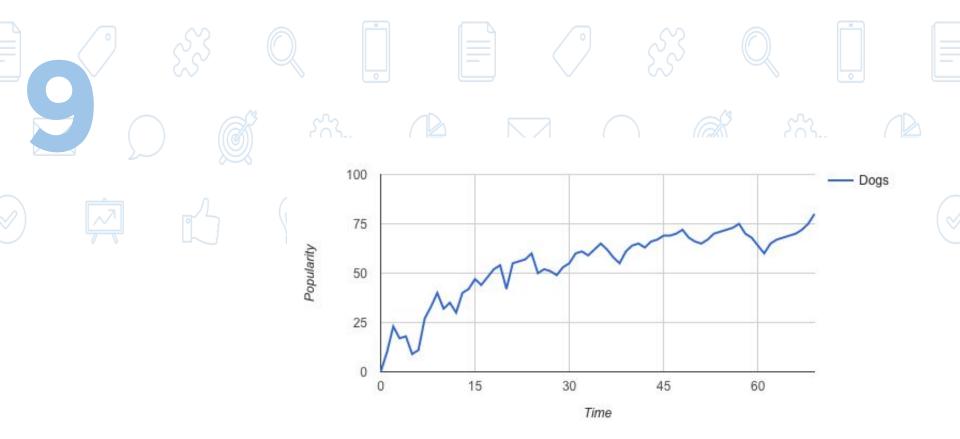


Gráfico de Línea

Google chart - line





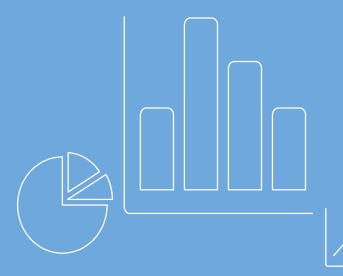
```
<html>
<head>
  <script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>
  <script type="text/javascript">
 </script>
</head>
<body>
 <div id="linechart" style="width: 900px; height: 500px;"></div>
</body>
</html>
```





```
<script type="text/javascript">
  google.charts.load('current', {'packages':['corechart']});
  google.charts.setOnLoadCallback(drawChart);
  function drawChart() {
   var data = google.visualization.arrayToDataTable([
    ['Task', 'Hours per Day'],
    ['Work', 11],
    ['Eat',
             2],
    ['Commute', 2],
    ['Watch TV', 2],
    ['Sleep', 7]
   ]);
 var chart = new google.visualization.LineChart(document.getElementById('linehart'));
   chart.draw(data, options);
 </script>
```

12



Gráficos a partir de Datos dinámicos

Obtener el conjunto de datos desde una consulta a la base de datos





```
<html>
 <head>
  <!--Load the AJAX API-->
  <script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"</pre>
></script>
  <script type="text/javascript" src="//ajax.googleapis.com/ajax/libs/jquery/1.</pre>
10.2/jquery.min.js"></script>
 </head>
 <body>
  <div id="pieChart_div"></div>
  <div id="pieTable_div"></div>
</body>
</html>
```

Index.php (HTML)





```
$(function() {
        // Load the Visualization API and the piechart package.
        google.charts.load('current', {'packages':['corechart','table']});
        // Set a callback to run when the Google Visualization API is loaded.
        google.charts.setOnLoadCallback(loadData);
});
function loadData(){
    $.ajax({
         url: "getData.php",
          dataType: "JSON",
          success: drawChart
         });
```

Index.php (JS parte-1)

```
function drawChart(jsonData) {
```

```
var pieData = new google.visualization.arrayToDataTable(jsonData);
```

```
var chart = new google.visualization.PieChart(document.
getElementById('pieChart_div'));
```

```
chart.draw(pieData, {title: 'Conversión', width: 800, height: 400});
```

```
table.draw(pieData, {showRowNumber: true, width: '60%'});
```

Index.php (JS parte-2)

```
<?php
//Me conecto a la base de datos
$hostname = "localhost";
$username = "root";
$password = "";
$database = "DBNAME";
$connection = mysql_connect($hostname, $username, $password);
mysql_select_db($database, $connection);
$sql = "SELECT elemento, cantidad FROM tabla WHERE ...";
$result = mysql_query($sql,$connection);
                                                    getData.ph
```

```
//Seteo titulos
$dataTable= array(array("Elemento","Cantidad"));
//Seteo contenido
while ($fila = mysql_fetch_assoc( $result )) {
    $dataTable[] = array($fila['elemento'],(int)$fila['cantidad']);
mysql_close($connection);
echo json_encode($dataTable);
?>
```

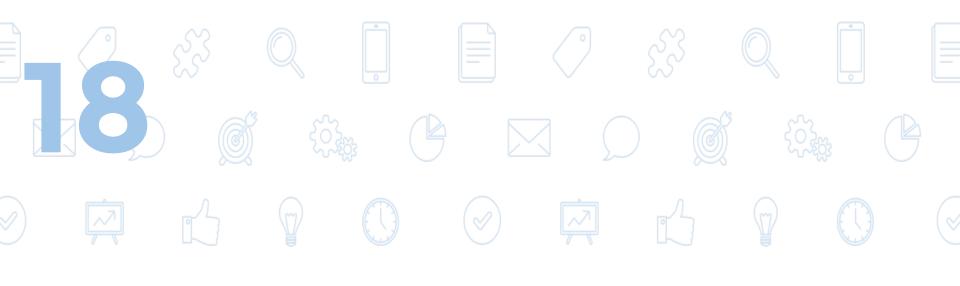


Gráfico en PNG

chart.getImageURI()

¿Cuándo lo necesito?

Para obtener una imagen estática (si deseamos almacenarla, visualizarla en un navegador muy básico o imprimirla en un PDF)

 Hay que tener en cuenta que para que exista la URL, debe haber terminado de generarse el gráfico



```
var chart_div = document.getElementById('chart_div');
var chart = new google.visualization.ColumnChart(chart_div);
// Esperar a que se genere el gráfico para obtener la URL del PNG
google.visualization.events.addListener(chart, 'ready', function () {
 chart_div.innerHTML = '<img src="' + chart.getImageURI() + "'>';
 console.log(chart_div.innerHTML);
});
chart.draw(data, options);
```



Para más información:

https://developers.google.com/chart/

Gracias!