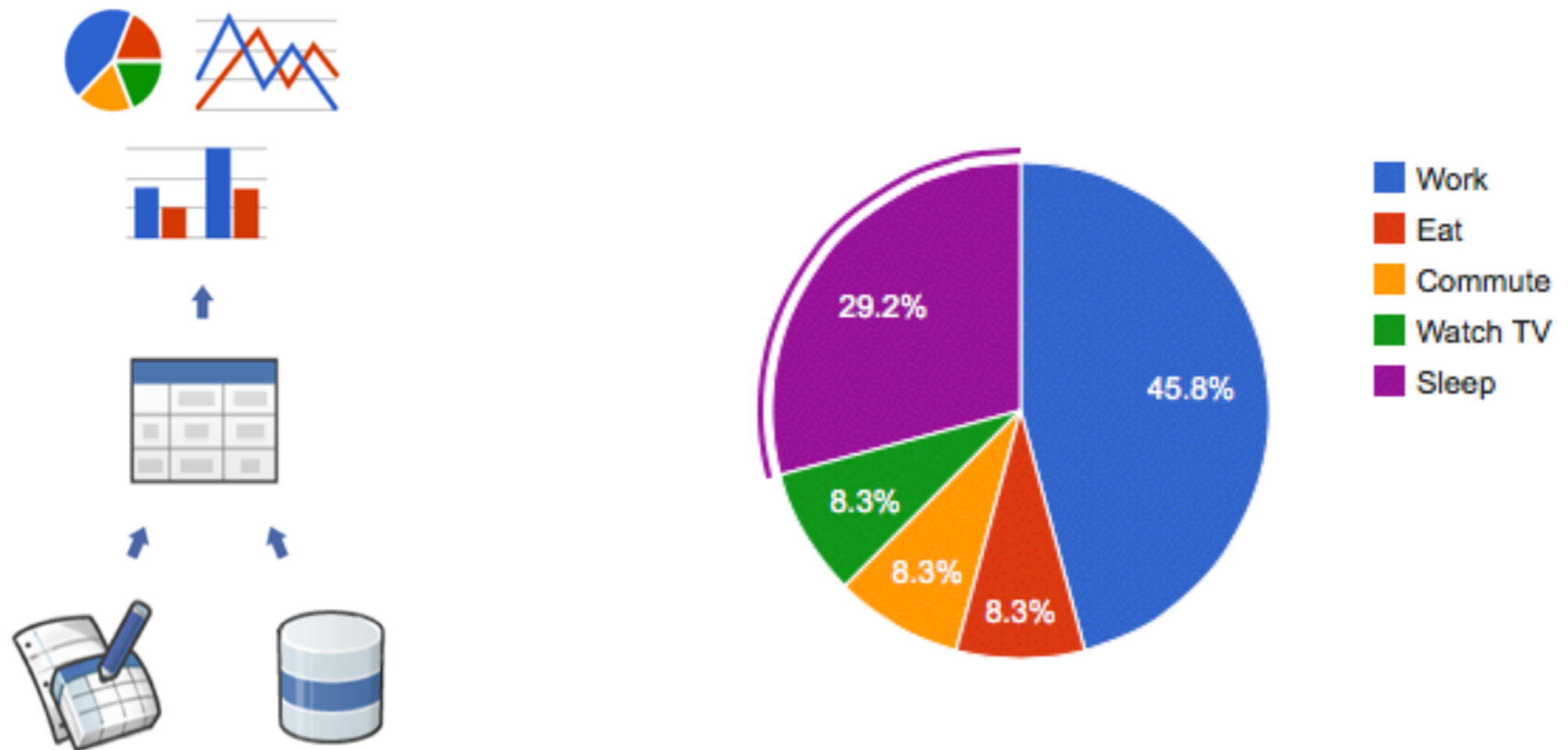


Google Charts

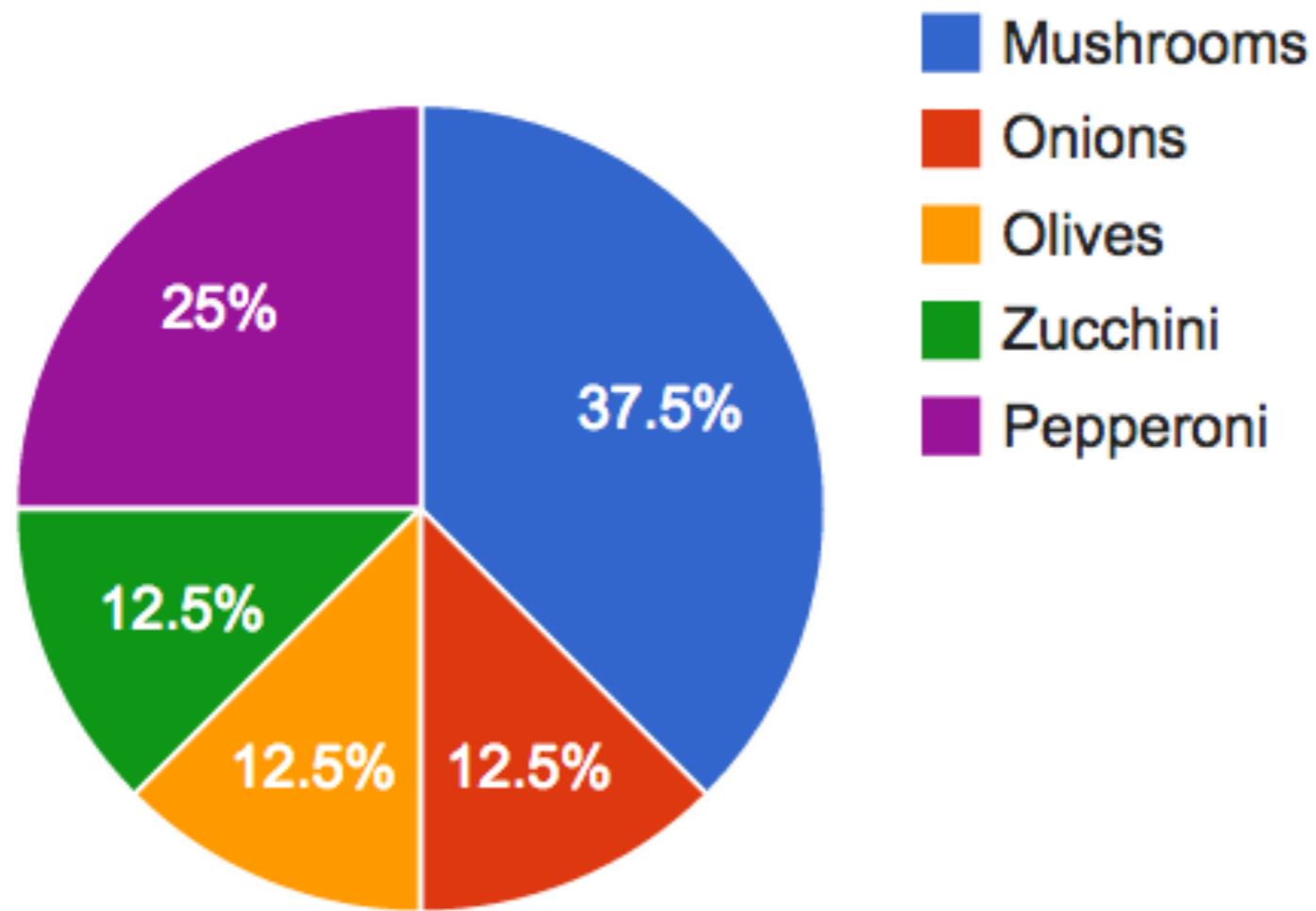
Display live data on your site

Using Google Charts



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

How Much Pizza I Ate Last Night



we want to represent this data



type: string
label: Topping

type: number
label: Slices

Mushrooms

3

Onions

1

Olives

1

Zucchini

1

Pepperoni

2

Step 1

create a container div inside an html page

```
<!--Div that will hold the pie chart-->  
<div id="chart_div"></div>
```

Step 2

create a .js file with the following content

```
// Load the Visualization API and the piechart package.  
google.load('visualization', '1.0', {'packages':['corechart']});  
  
// Set a callback to run when the Google Visualization API is loaded.  
google.setOnLoadCallback(drawChart);
```



we're going to define this function!

other packages

- annotationchart
- bar
- calendar
- gauge
- geochart
- line
- map
- orgchart
- sankey
- table
- timeline
- treemap
- wordtree

Step 3

create the **drawChart()** function

```
// Callback that creates and populates a data table,  
// instantiates the pie chart, passes in the data and  
// draws it.  
function drawChart() {  
  
    chart.draw(data, options);  
  
}
```


Step 4

define the data

```
// Callback that creates and populates a data table,  
// instantiates the pie chart, passes in the data and  
// draws it.  
function drawChart() {  
  
    // Create the data table.  
    var data = new google.visualization.DataTable();  
    data.addColumn('string', 'Topping');  
    data.addColumn('number', 'Slices');  
    data.addRow([  
        ['Mushrooms', 3],  
        ['Onions', 1],  
        ['Olives', 1],  
        ['Zucchini', 1],  
        ['Pepperoni', 2]  
    ]);  
}
```

← my data

...set the options

```
// Set chart options
var options = {
  'title': 'How Much Pizza I Ate Last Night',
  'width': 400,
  'height': 300
};
```

...continue

```
// Instantiate and draw our chart, passing in some options.  
var chart = new google.visualization.PieChart(  
    document.getElementById('chart_div')  
);  
  
chart.draw(data, options);  
  
}
```

this will draw a pie chart



end of the **drawChart()** function

```

// Load the Visualization API and the piechart package.
google.load('visualization', '1.0', {'packages':['corechart']});

// Set a callback to run when the Google Visualization API is loaded.
google.setOnLoadCallback(drawChart);

// Callback that creates and populates a data table,
// instantiates the pie chart, passes in the data and
// draws it.
function drawChart() {

    // Create the data table.
    var data = new google.visualization.DataTable();
    data.addColumn('string', 'Topping');
    data.addColumn('number', 'Slices');
    data.addRows([
        ['Mushrooms', 3],
        ['Onions', 1],
        ['Olives', 1],
        ['Zucchini', 1],
        ['Pepperoni', 2]
    ]);

    // Set chart options
    var options = {
        'title':'How Much Pizza I Ate Last Night',
        'width':400,
        'height':300,
    };

    // Instantiate and draw our chart, passing in some options.
    var chart = new google.visualization.PieChart(
        document.getElementById('chart_div')
    );

    chart.draw(data, options);
}

```

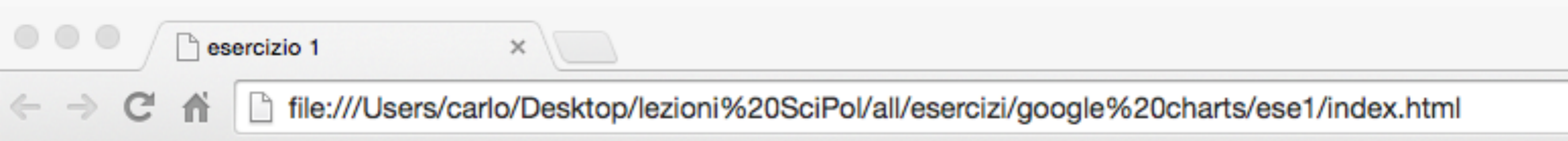
complete code

Step 5

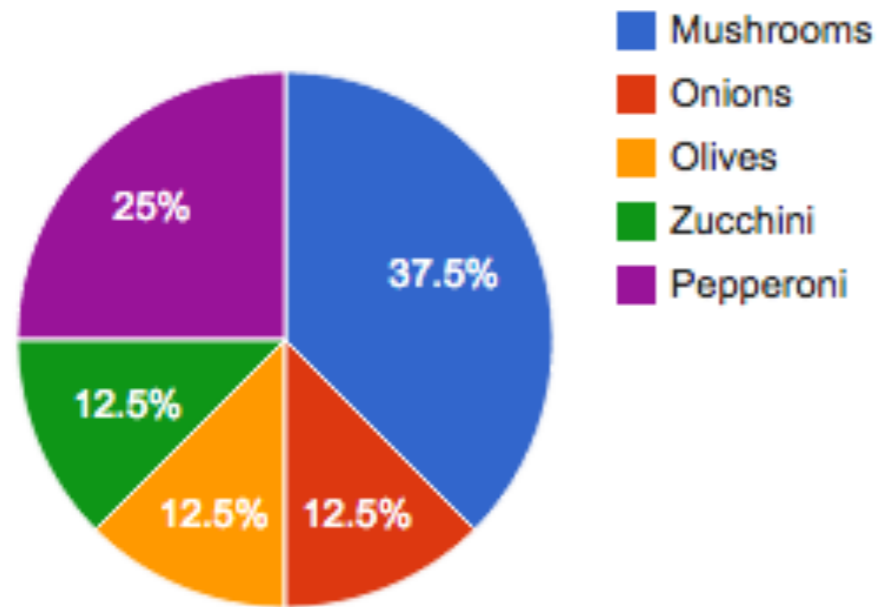
import google's api and our script inside the html

```
<script src="https://www.google.com/jsapi"></script>  
<script src="js/script.js"></script>
```

result 1



How Much Pizza I Ate Last Night

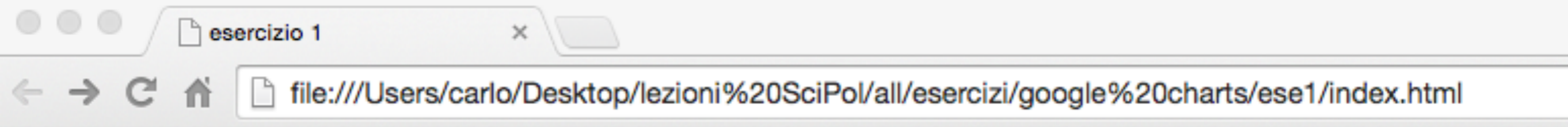


Customizing the Chart

```
// Set chart options
var options = {
  'title': 'How Much Pizza I Ate Last Night',
  'width': 400,
  'height': 300,
  'backgroundColor': 'grey',
  'colors': ['pink', 'azure', 'beige', 'turquoise', 'violet'],
  'fontName': 'Verdana',
  'is3D': true,
  'legend': 'left'
};
```

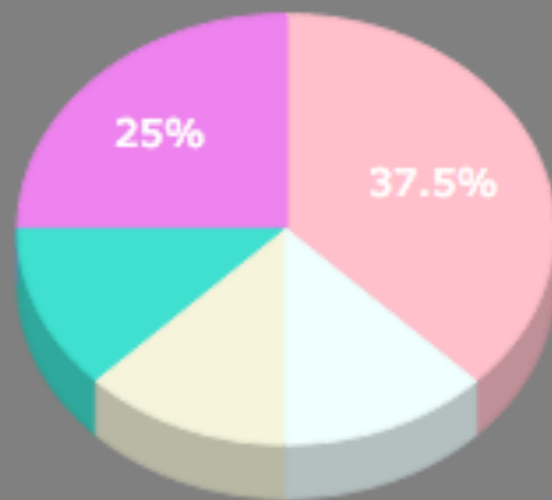
https://developers.google.com/chart/interactive/docs/gallery/piechart#Configuration_Options

result 2



How Much Pizza I Ate Last Night

- Mushroo...
- Onions
- Olives
- Zucchini
- Pepperoni



How about a bar chart?

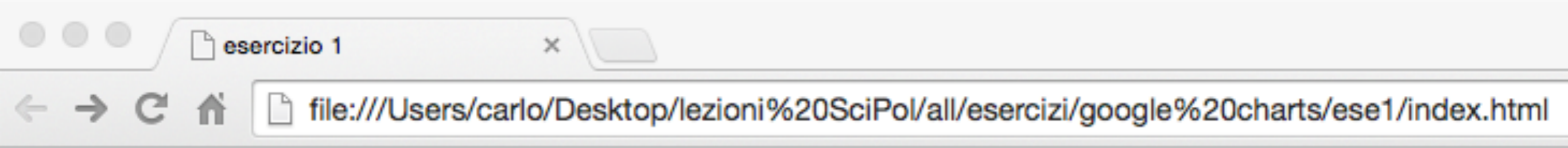
just replace **PieChart**

```
var chart = new google.visualization.PieChart(
```

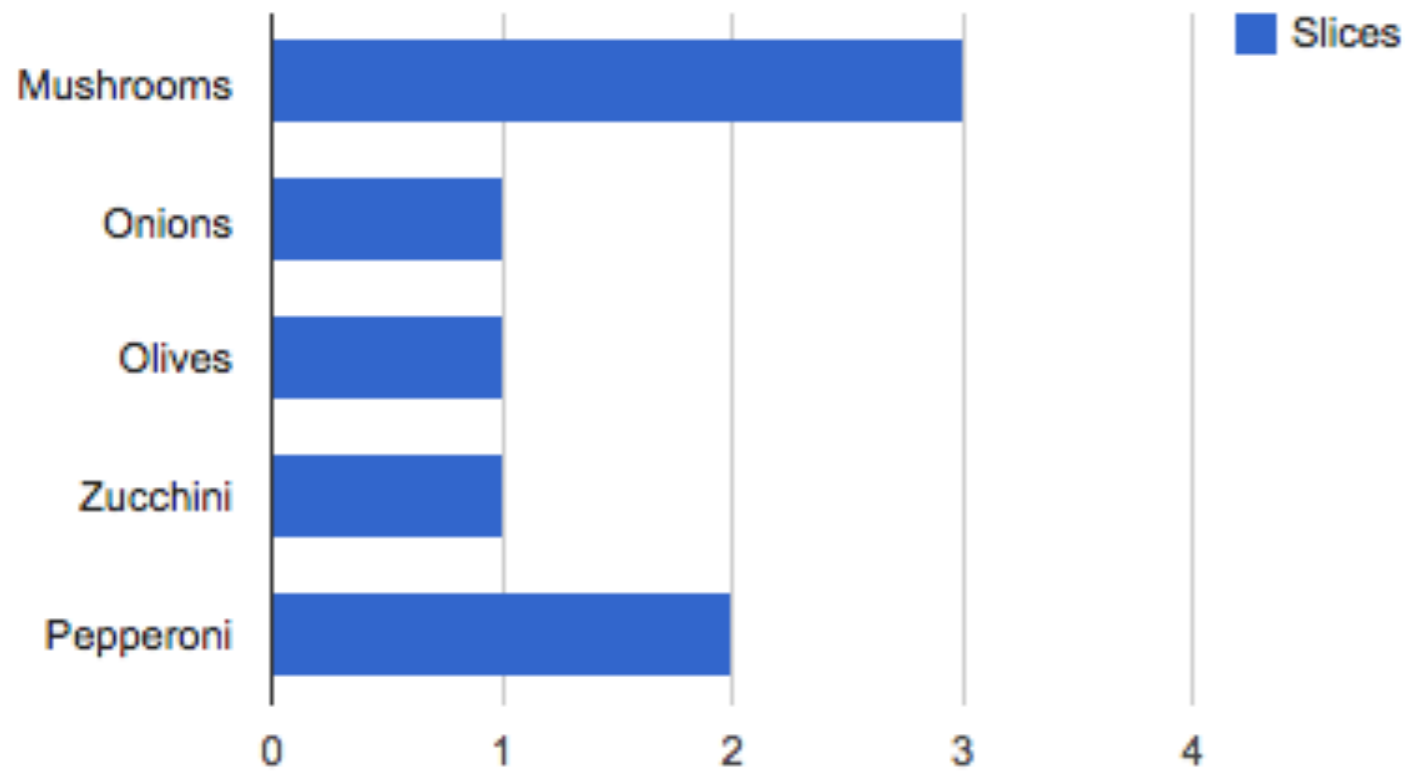
with **BarChart**

```
var chart = new google.visualization.BarChart(
```

result 3



How Much Pizza I Ate Last Night



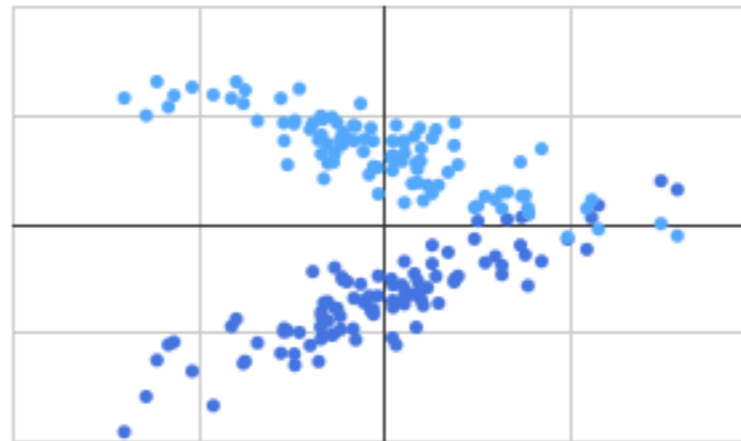
more charts on

<https://developers.google.com/chart/interactive/docs/gallery>

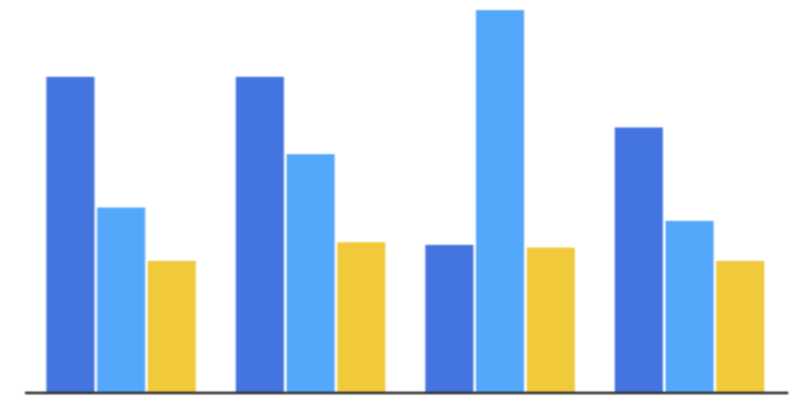
Geo Chart



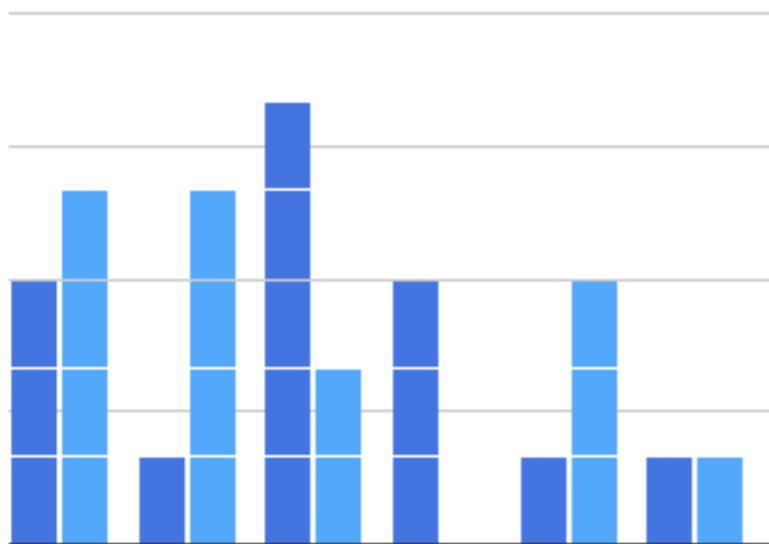
Scatter Chart



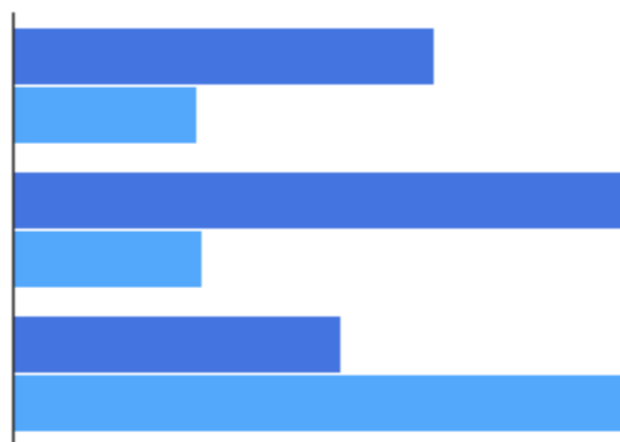
Column Chart



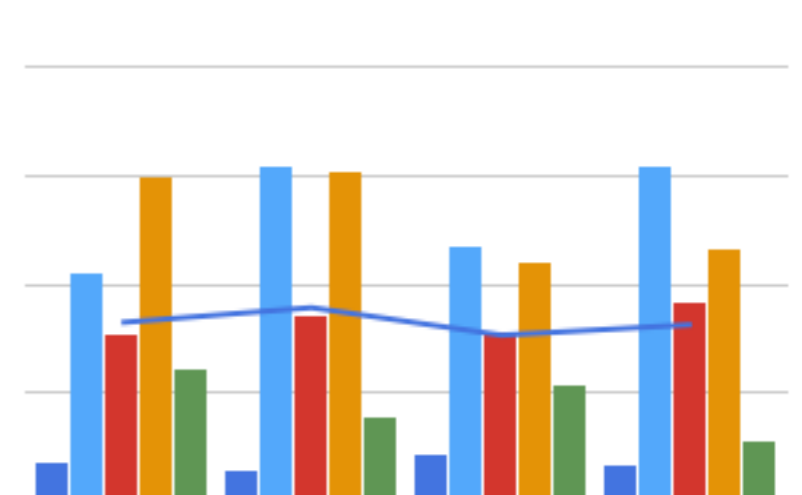
Histogram



Bar Chart



Combo Chart



Both pie and bar charts are included in the **corechart** package

```
// Load the Visualization API and the piechart package.  
google.load('visualization', '1.0', {'packages':['corechart']});
```

However, if you want a [treemap](#) or [geo chart](#) on your page, you must [additionally load the 'treemap' or 'geomap' packages](#).