


plotly.js

The open source JavaScript graphing library that
powers Plotly

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3D Surface Plots in plotly.js

How to make 3D surface plots in javascript.



Scala



R



Python



plotly.js



Pandas



node.js



MATLAB

Topographical 3D Surface Plot [↗](#)

```
Plotly.d3.csv('https://raw.githubusercontent.com/plotly/datasets/master/api_docs/mt_bruno_elevation.csv', function(err, rows){
  function unpack(rows, key) {
    return rows.map(function(row) { return row[key]; });
  }

  var z_data=[ ]
  for(i=0;i<24;i++)
  {
    z_data.push(unpack(rows,i));
  }

  var data = [{
    z: z_data,
    type: 'surface'
  }];

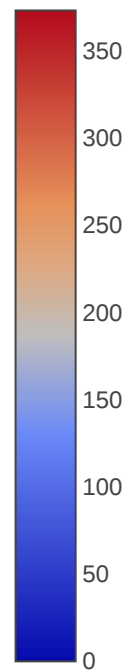
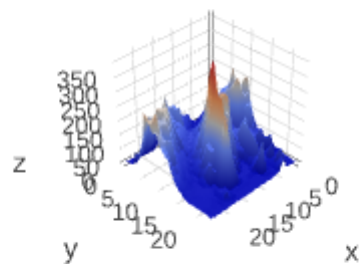
  var layout = {
    title: 'Mt Bruno Elevation',
    autosize: false,
    width: 500,
```



```
height: 500,  
margin: {  
  l: 65,  
  r: 50,  
  b: 65,  
  t: 90,  
}  
};  
Plotly.newPlot('myDiv', data, layout);  
});
```

[HTML](#)[JS](#)[Result](#)[Edit on CODEPEN](#)

Mt Bruno Elevation



Multiple 3D Surface Plots [↗](#)

```
z1 = [  
  [8.83,8.89,8.81,8.87,8.9,8.87],  
  [8.89,8.94,8.85,8.94,8.96,8.92],  
  [8.84,8.9,8.82,8.92,8.93,8.91],  
  [8.79,8.85,8.79,8.9,8.94,8.92],  
  [8.79,8.88,8.81,8.9,8.95,8.92],  
  [8.8,8.82,8.78,8.91,8.94,8.92],
```

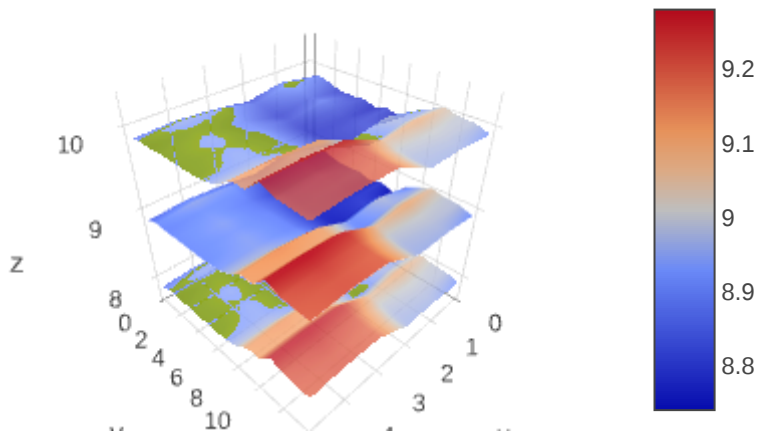


```
[8.75,8.78,8.77,8.91,8.95,8.92],
[8.8,8.8,8.77,8.91,8.95,8.94],
[8.74,8.81,8.76,8.93,8.98,8.99],
[8.89,8.99,8.92,9.1,9.13,9.11],
[8.97,8.97,8.91,9.09,9.11,9.11],
[9.04,9.08,9.05,9.25,9.28,9.27],
[9,9.01,9,9.2,9.23,9.2],
[8.99,8.99,8.98,9.18,9.2,9.19],
[8.93,8.97,8.97,9.18,9.2,9.18]
];

z2 = [];
for (var i=0;i<z1.length;i++ ) {
  z2_row = [];
  for(var j=0;j<z1[i].length;j++) {
    z2_row.push(z1[i][j]+1);
  }
  z2.push(z2_row);
}

z3 = []
for (var i=0;i<z1.length;i++ ) {
  z3_row = [];
  for(var j=0;j<z1[i].length;j++) {
    z3_row.push(z1[i][j]-1);
  }
  z3.push(z3_row);
}
var data_z1 = {z: z1, type: 'surface'};
var data_z2 = {z: z2, showscale: false, opacity:0.9, type: 'surface'};
var data_z3 = {z: z3, showscale: false, opacity:0.9, type: 'surface'};

Plotly.newPlot('example', [data_z1, data_z2, data_z3]);
```



Still need help?

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community.plot.ly



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github.com/plotly

For guaranteed 24 hour response
turnarounds, upgrade to a [Developer
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