

GETTING STARTED

'https://cdn.plot.ly/plotly-latest min.js'></script> <script src = </head> <head>

2. Sign Up & Configure

plot.ly/javascript/getting-started

3. A Hello World Figure

document.getElementByld (data = $\{x : [1, 2, 3, 4, 5],$ y:[1, 2, 4, 8, 16]}; trace = [data]; 'myDiv'); </script> <script> myDiv =

Plotly.plot (myDiv, trace); <script src = <head> HTML:

Plotly.plot (div, data);

data = [trace];

type: 'bar');

x:[1,2], y:[1,2]

trace = {

<div id = 'myDiv' ></div> min.js'></script>

"https://cdn.plot.ly/plotly-latest.

BASIC CHARTS

LAYOUT

```
Bubble Charts
                 trace {
```

color:['red', 'blue'], size:[20,50,80]}, x:[1,2,3], y:[1,2,3], marker: {

x:[1,2],y:[1,2]

 $trace1 = {$

Line Plots

type = 'scatter' };

 $trace2 = {$

1. CDN

Heatmaps Heatmaps

Scatter Plots

'myDiv', [trace]);

Plotly.plot (

div, [trace1, trace2]);

Plotly.plot (

x:[3,4],y:[9,16]

type = 'scatter' };

mode: 'markers' };

z:[[1,2],[1,2]], type: 'heatmap' }, data:[trace], trace = {

'myDiv', data); Plotly.plot (

textposition: 'top center'

text: ['A' , 'B' , 'C']

x:[1,2,3],

trace = {

y:[1,2,3]

Plotly.plot (div, [trace]);

mode: 'markers+text' };

Area Plots

Bar Charts

type: 'tonexty' }; type: 'scatter', x:[1,2,3], y:[1,2,3], Plotly.plot (race {

'myDiv', [trace]);

JAVASCRIPT BASIC CHART PLOT.LY/JAVASCRIPT

yaxis = axis_template }; xaxis: axis_template, type = 'scatter' }; showgrid = false layout: layout }; zeroline = false, showline = true axis_template = { data:[trace], 'myDiv', fig); mirror = 'all') title = 'X Axis' x:[1,2,3], nticks = 20, y:[1,2,3] Plotly.plot (-/- Axes layout = { trace = { $fig = {$ data:[trace1, trace2], showlegend = true, type = 'scatter' }; type = 'scatter' }; name = 'Hobbes' layout: layout }; name = 'Calvin', 'myDiv', fig); x:[1,2,3], == Legends x:[1,2,3], y:0.5}); y:[1,2,3] y:[1,2,3] Plotly.plot (|egend: { x: 0.2, ayout = { $trace2 = {$ $trace1 = {$ $fig = {$

ALL LAYOUTS PLOT.LY/JAVASCRIPT/REFERENCE/#LAYOUT

MAPS

type = 'histogram' x:[1,2,3,4,5], Histograms 'Div' , [trace]); var trace = { Plotly.Plot (

Box Plots

y:[1,2,3,4,5], 'Div' , [trace]); type = 'box'var trace = { Plotly.Plot (

♣ 2D Histogram

type = 'histogram2d' x:[1,2,3,4,5], y:[1, 2, 3, 4, 5],

Plotly.Plot (

var trace = {

'Div' , [trace]) ;

3D CHARTS

FIGURE HIERARCHY

▶ 3D Surface Plots

Figure { }

colorscale = 'Viridis', z = [[3, 5, 7, 9), trace = {

[[21, 13, 8, 5]]}; Plotly.newPlot (

marker: {color:['red', 'blue'],

lat:[0,0],

type: 'scattergeo', Ion: [100, 400],

trace = {

Bubble Map

colorscale ABC or []

MARKER { } color ABC symbol ABC

LINE {}

color ABC width 123

color, text, size []

x, y, z [] DATA [] TRACE {}

'myDiv', [trace]);

3D Line Plots

Choropleth Map

'myDiv', [trace]);

mode = 'markers' }

Plotly.Plot (

size:[30, 50],

z = [11, 8, 15, 3], x = [9, 8, 5, 1],y = [1, 2, 4, 8],mode = 'lines' }; trace = {

XAXIS, YAXIS, ZAXIS { }

ANNOTATIONS { }

LEGEND {}

GEO { }

showlegend True/False

LAYOUT {} title ABC autosize True/False

XAXIS, YAXIS { }

SCENE {}

data = [trace]; Plotly.newPlot (

'myDiv', data);

fig = { data : [trace] , layout : layout };

Plotly.newPlot ('myDiv', fig);

layout = { geo : { scope = 'usa' } };

locationmode = 'USA-states', locations = ['AZ' , 'CA' , 'VT'] ,

type = 'scattergeo',

trace = {

colorscale = 'Viridis',

z = [10, 20, 40]};

3D Scatter Plots

z = [11, 8, 15, 3], x = [9, 8, 5, 1],y = [1, 2, 4, 8],trace = {

mode = 'markers' }; Plotly.newPlot (

text = ['Rome', 'Greece'],

type = 'scattergeo',

:race = {

Ion = [42, 39],

lat = [12, 22],

Scatter Map

mode = 'markers' };

'myDiv', [trace]);

Plotly.newPlot (

ABC = string 123 = number

] = dictionary

] = list

'myDiv', [trace]);

ALL LAYOUTS PLOT.LY/JAVASCRIPT/REFERENCE/

JAVASCRIPT ADVANCED CHARTS

PLOT.LY/JAVASCRIPT