BASIC CHARTS

LAYOUT

plotly

N

Line Plots

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Bubble Charts

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Legends

--- Axes

GETTING STARTED

trace1 = go.Scatter (

x = [1,2], y = [1,2]) trace2 = go.Scatter (

x = [1,2], y = [ 2, 11). py.iplot ( [trace1, trace2]).

trace1 = go.Scatter (

name = ‘Calvin' x = [1, 2], y= [1, 2])

trace = go.Scatter (

x = [1, 2, 3, 4], y = [1, 2, 3, 6])

1. Install

trace = go.Scatter (

x = [1,2,3], y = [1,2,3], marker = dict( color = [ 'red', 'blue'], size = [ 30, 80, 2001), mode = 'markers'). py.iplot ( [trace ]).

*I*n the termina*l* sudo pip install plotly

trace2 = go.Scatter (

name = 'Hobbes' x = [ 2, 1], y = [ 2, 11).

2. Sign Up & Configure

axis\_template = dict (

showgrid = False , zeroline = False , nticks = 20, showline = True , title = ‘X AXIS' mirror = 'all'). layout = go.Layout (

xaxis = axis\_template , yaxis = axis\_template ,

:: Scatter Plots

W

Heatmaps

htt*p://www.plot.ly/python/ getting-star*te*d*

layout = go.Layout (

showlegend = True , legend = dict(

x = 0.2, y = 0.5)

trace1 = go.Scatter (

x = [1, 2, 3], y = [1,2,3], text = [ ‘A’,'B','C'], textposition = 'top center'

mode = 'markers+text'). mode = [ trace ] py.iplot ( data)

trace = go.Heatmap ( z = [[1, 2, 3, 4],

[5, 6, 7, 8]]) data = [ trace ] py.iplot ( data)

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3. Boilerplate Imports

import plotly.plotly as py import plotly.graph\_objs as go

data = [trace1 , trace2] fig = go.Figure (

data = data,

layout = layout) py.iplot ( fig)

data = [trace ] fig = go.Figure (

data = data

layout = layout py.iplot (fig)

4. A Hello World Figure

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Bar Charts

Area Plots

trace = {'X': [1, 2] , 'y': [1,2]} data = [ trace ] data = {} fig = go.Figure (

data = data, layout = layout)

trace = go.Bar (

x = [1,2], y = [1, 2]). data = [ trace ] py.iplot ( data)

trace = go.Scatter (

x = [1,2], y = [1, 2],

fill = 'tonexty'). data = [ trace ] py.iplot ( data )

5. Plot the Figure!

*In* th*e terminal* plot\_url = py.plot ( fig) *Or in the I*P*yt*h*on notebook:* py.plot ( fig)

PYTHON CLIENT

PLOT.LY/PYTHON

ALL LAYOUTS PLOT.LY/PYTHON/REFERENCE*/#*LAYOUT

STATISTICAL CHARTS

MAPS

3D CHARTS

FIGURE HIERARCHY

..li. Histograms

Bubble Map

3D Surface Plots

Figure{ }

trace = go.Histogram (

x = [1, 2, 3, 3, 3, 4, 5 ]). data = [ trace ] py.iplot (data)

trace = dict (

type = 'scattergeo', Ion = [ 100, 400], lat = [0,0], marker = dict(

marker = [ 'red', 'blue' ]

size = [ 30, 50 ]), mode = 'markers') py.iplot ( [trace ])

trace = go.Surface

colorscale = 'Viridis', z = [[3, 5, 8, 13] ,

[ 21, 13, 8,5]). data = [trace ] py.iplot ( data)

DATA []

TRACE {}

x, y, z[] color, text, size [] colorscale ABC or[] MARKER {}

color ABC symbol ABC LINE {}

color ABC width 123

HOH Box Plots

Choropleth Map

A

3D Line Plots

trace = go.Box (

x = [1, 2, 3, 3, 3, 4, 5]). data = [ trace ] py.iplot ( data)

trc = dịct (

type = 'choropleth', locations = [ ‘AZ”, “CA', 'VT'], locationmode = 'USA-states', colorscale = [ 'Viridis'],

z = [ 10, 20, 401) lyt = dict ( geo = dict ( scope = 'usa')). map = go.Figure ( data = [ trc],

layout = lyt ) py.iplot (map)

trace = go.Scatter3D (

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

mode = 'lines') data = [ trace ] py.iplot ( data )

LAYOUT { }

title ABC XAXIS, *Y*AXIS { } SCENE { }

XAXIS, YAXIS, ZAXIS {} GEO {} LEGEND {} ANNOTATIONS {}

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2D Histogram

Scatter Map

3D Scatter Plots

trace = go.Historgram2d (

x = [1, 2, 3, 3, 3, 4, 5],

x = [1, 2, 3, 3, 3, 4, 5]). data = [ trace ] py.iplot (data)

{} = dictionary [ ] = list ABC = string 123 = number

trace = dict(

type = 'scattergeo', Ion = [ 42, 39], lat = [ 12, 22], marker = [ 'Rome', 'Greece'],

mode = 'markers') py.iplot ( [trace ]

trace = go.Scatter3D (

x = [ 9, 8, 5, 1], y = [1, 2, 4, 8], z = [11, 8, 15,3], mode = 'markers') data = [ trace] py.iplot (data)

PYTHON CLIENT

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