plotly	BASIC CHARTS		LAYOUT	
	► Line Plots	• Bubble Charts	i≡ Legends	Axes
TTING STARTED	<pre>trace1 = go.Scatter (x = [1, 2], y = [1, 2]) trace2 = go.Scatter (x = [1, 2], y = [2, 1]) py.iplot ([trace1, trace2])</pre>	trace = go.Scatter (x = [1, 2, 3] , y = [1, 2, 3] , marker = dict (color = ['red', 'blue' ,	trace1 = go.Scatter (name = 'Calvin' x = [1, 2], y = [1, 2])	trace = go.Scatter (x = [1, 2, 3, 4], y = [1, 2, 3, 6])
the terminal do pip install plotly		<pre>'green'] size = [30, 80, 200]), mode = 'markers') py.iplot ([trace])</pre>	trace2 = go.Scatter (name = 'Hobbes' x = [2, 1] , y = [2, 1])	axis_template = dict (showgrid = False , zeroline = False , nticks = 20 ,
. Sign Up & Configure	Scatter Plots	Heatmaps		showline = True , title = 'X AXIS'
ttp://www.plot.ly/python/ etting-started 6. Boilerplate Imports	<pre>trace1 = go.Scatter (x = [1, 2, 3], y = [1, 2, 3], text = ['A','B','C'], textposition = 'top center' mode = 'markers+text') mode = [trace]</pre>	trace = go.Heatmap (z = [[1, 2, 3, 4], [5, 6, 7, 8]]) data = [trace] py.iplot (data)	layout = go.Layout (showlegend = True , legend = dict (x = 0.2 , y = 0.5))	mirror = 'all') layout = go.Layout (xaxis = axis_template , yaxis = axis_template ,)
nport plotly.plotly as py n <mark>port</mark> plotly.graph_objs as go	py.iplot (data)		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)
. A Hello World Figure	Bar Charts	Area Plots		
ace = { 'x' : [1, 2] , 'y' : [1, 2] } ata = [trace] but = { } g = go.Figure (data = data, layout = layout)	trace = go.Bar (<pre>trace = go.Scatter (x = [1, 2], y = [1, 2], fill = 'tonexty') data = [trace] py.iplot (data)</pre>		
Plot the Figure! the terminal: ot_url = py.plot (fig)				

Or in the IPython notebook: py.iplot (fig)

STATISTICAL CHARTS

Histograms

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

He Box Plots

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

4 2D Histogram

trace = go.Historgram2d (
 x = [1, 2, 3, 3, 3, 4, 5],
 x = [1, 2, 3, 3, 3, 4, 5])
data = [trace]
py.iplot (data)

MAPS

👸 🛛 Bubble Map

trace = dict (
 type = 'scattergeo',
 lon = [100, 400], lat = [0, 0],
 marker = dict (
 marker = ['red', 'blue']
 size = [30, 50]),
 mode = 'markers')
py.iplot ([trace])

Choropleth Map

trc = dict (
 type = 'choropleth',
 locations = ['AZ', 'CA', 'VT'],
 locationmode = 'USA-states',
 colorscale = ['Viridis'],
 z = [10, 20, 40])
lyt = dict (geo = dict (scope = 'usa'))
map = go.Figure (data = [trc],
 layout = lyt)
py.iplot (map)

Scatter Map

trace = dict (
 type = 'scattergeo',
 Ion = [42, 39], lat = [12, 22],
 marker = ['Rome', 'Greece'],
 mode = 'markers')
py.iplot ([trace])

3D CHARTS

♦ 3D Surface Plots

trace = go.Surface (
 colorscale = 'Viridis',
 z = [[3, 5, 8, 13],
 [21, 13, 8, 5])
data = [trace]
py.iplot (data)

♦ 3D Line Plots

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)

3D Scatter Plots

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)

FIGURE HIERARCHY

Figure { }

DATA [] TRACE {} x, y, z [] color, text, size [] colorscale ABC or [] MARKER {} color ABC symbol ABC LINE {} color ABC width 123

LAYOUT {} title ABC XAXIS, YAXIS {} SCENE {} XAXIS, YAXIS, ZAXIS {} GE0 {} LEGEND {} ANNOTATIONS {}

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