Basic Box Plot

**In [1]:**

**import** **plotly.plotly** **as** **py**

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

**import** **numpy** **as** **np**

y0 = np.random.randn(50)-1

y1 = np.random.randn(50)+1

trace0 = go.Box(

y=y0

)

trace1 = go.Box(

y=y1

)

data = [trace0, trace1]

py.iplot(data)

Horizontal Box Plot

**In [2]:**

**import** **plotly.plotly** **as** **py**

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

**import** **numpy** **as** **np**

x0 = np.random.randn(50)

x1 = np.random.randn(50) + 2

trace0 = go.Box(x=x0)

trace1 = go.Box(x=x1)

data = [trace0, trace1]

py.iplot(data)

Rainbow Box Plots

**In [9]:**

**import** **random**

**import** **plotly.plotly** **as** **py**

**from** **numpy** **import** \*

N = 30. *# Number of boxes*

*# generate an array of rainbow colors by fixing the saturation and lightness of the HSL representation of colour*

*# and marching around the hue.*

*# Plotly accepts any CSS color format, see e.g. http://www.w3schools.com/cssref/css\_colors\_legal.asp.*

c = ['hsl('+str(h)+',50%'+',50%)' **for** h **in** linspace(0, 360, N)]

*# Each box is represented by a dict that contains the data, the type, and the colour.*

*# Use list comprehension to describe N boxes, each with a different colour and with different randomly generated data:*

data = [{

'y': 3.5\*sin(pi \* i/N) + i/N+(1.5+0.5\*cos(pi\*i/N))\*random.rand(10),

'type':'box',

'marker':{'color': c[i]}

} **for** i **in** range(int(N))]

*# format the layout*

layout = {'xaxis': {'showgrid':False,'zeroline':False, 'tickangle':60,'showticklabels':False},

'yaxis': {'zeroline':False,'gridcolor':'white'},

'paper\_bgcolor': 'rgb(233,233,233)',

'plot\_bgcolor': 'rgb(233,233,233)',

}

py.iplot(data)