Date 06-07-2021

Box Plots

In [1]:
```
import pandas as pd
import numpy as np
import plotly.offline as pyo
import plotly.graph_objs as go
```

In [2]:
```
y = [9,14,14,15,16,18,18,19,19,20,20,23,24,26,27,27,28,29,33,54]
```

In [3]:
```
data = [go.Box(y = y,
        name = "Box Plot Example")]
```

In [4]:
```
pyo.iplot(data)
```

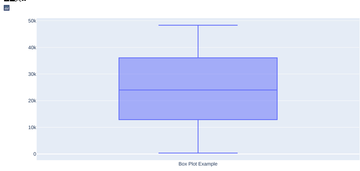
In [5]:
```
pyo.plot(data, filename = "tutorial_13 (Box Plots)[Part-1].html")
```

Out[5]:
```
'tutorial_13 (Box Plots)[Part-1].html'
```

In [6]:
```
np.random.seed(61)
y = np.random.randint(78, 48512, 1000)
```

In [7]:
```
data = [go.Box(y = y,
        name = "Box Plot Example")]
```

In [8]:
```
pyo.iplot(data)
```



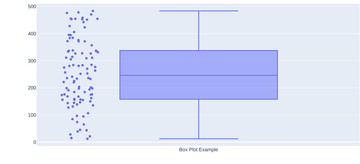
In [9]:
```
pyo.plot(data, filename = "tutorial_13 (Box Plots)[Part-2].html")
```

Out[9]:
```
'tutorial_13 (Box Plots)[Part-2].html'
```

In [10]:
```
np.random.seed(5465)
y = np.random.uniform(7.8, 484.512, 100)
```

In [11]:
```
data = [go.Box(y = y,
               boxpoints = "all",
               name = "Box Plot Example")]
```

In [12]:
```
pyo.iplot(data)
```



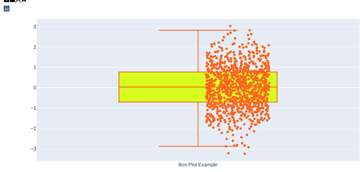
In [13]:
```
pyo.plot(data, filename = "tutorial_13 (Box Plots)[Part-3].html")
```

Out[13]:
```
'tutorial_13 (Box Plots)[Part-3].html'
```

In [14]:
```
np.random.seed(4852)
y = np.random.randn(1000)
```

In [15]:
```
data = [go.Box(y = y,
               boxpoints = "all",
               name = "Box Plot Example",
               jitter = .4,
               pointpos = .5,
               fillcolor = "#ddfffd",
               marker_color = "#ff661f")]
```

In [16]:
```
pyo.iplot(data)
```



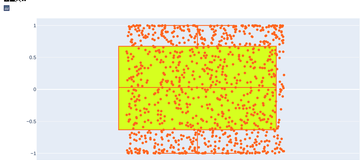
In [17]:
```
pyo.plot(data, filename = "tutorial_13 (Box Plots)[Part-4].html")
```

Out[17]:
```
'tutorial_13 (Box Plots)[Part-4].html'
```

In [18]:
```
y = np.sin(y)
```

In [19]:
```
data = [go.Box(y = y,
               boxpoints = "all",
               name = "Box Plot Example",
               jitter = 1,
               pointpos = .1,
               fillcolor = "#ddfffd",
               marker_color = "#ff661f")]
```

In [20]:
```
pyo.iplot(data)
```



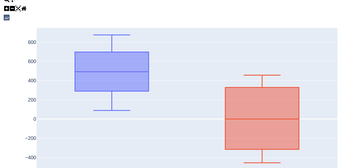
In [21]:
```
pyo.plot(data, filename = "tutorial_13 (Box Plots)[Part-5].html")
```

Out[21]:
```
'tutorial_13 (Box Plots)[Part-5].html'
```

In [22]:
```
np.random.seed(9546)
y = np.random.uniform(87.151, 875.547786, 1000)
y2 = np.sin(y)*456
np.random.shuffle(y2)
```

In [23]:
```
data = [go.Box(y = y,
               name = "Box Plot 1"),
        go.Box(y = y2,
               name = "Box Plot 2")]
```

In [24]:
```
pyo.iplot(data)
```

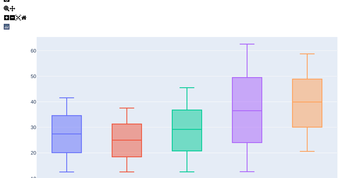


In [25]:
```
pyo.plot(data, filename = "tutorial_13 (Box Plots)[Part-6].html")
```

Out[25]:
```
'tutorial_13 (Box Plots)[Part-6].html'
```

In [26]:
```
data = [go.Box(y = np.random.uniform(12.548, 41.547786, 1000),
               name = "Box Plot 1"),
        go.Box(y = np.random.uniform(12.548, 37.595786, 1000),
               name = "Box Plot 2"),
        go.Box(y = np.random.uniform(12.548, 43.547786, 1000),
               name = "Box Plot 3"),
        go.Box(y = np.random.uniform(12.548, 62.5547786, 1000),
               name = "Box Plot 4"),
        go.Box(y = np.random.uniform(20.548, 58.786, 1000),
               name = "Box Plot 5")]
```

In [27]:
```
pyo.iplot(data)
```



In [28]:
```
pyo.plot(data, filename = "tutorial_13 (Box Plots)[Part-7].html")
```

Out[28]:
```
'tutorial_13 (Box Plots)[Part-7].html'
```