Plotly: to create interactive plots

In [ ]:
```
import pandas as pd
import numpy as np
%matplotlib inline
```

In [ ]:
```
from plotly import __version__
from plotly.offline import download_plotlyjs, init_notebook_mode, plot, iplot

print(__version__)
```

In [ ]:
```
import cufflinks as cf
```

In [ ]:
```
# For Notebooks
init_notebook_mode(connected=True)
```

In [ ]:
```
# For offline use
cf.go_offline()
```

Fake Data

In [ ]:
```
df = pd.DataFrame(np.random.randn(100,4),columns='A B C D'.split())
```

In [ ]:
```
df.head()
```

In [ ]:
```
df2 = pd.DataFrame({'Category':['A','B','C'],'Values':[32,43,50]})
```

In [ ]:
```
df2.head()
```

Scatter

In [ ]:
```
df.iplot(kind='scatter',x='A',y='B',mode='markers',size=10)
```

Bar Plots

In [ ]:
```
df2.iplot(kind='bar',x='Category',y='Values')
```

In [ ]:
```
df.sum().iplot(kind='bar')
```

Boxplots

In [ ]:
```
df.iplot(kind='box')
```

3d Surface

In [ ]:
```
df3 = pd.DataFrame({'x':[1,2,3,4,5],'y':[10,20,30,20,10],'z':[5,4,3,2,1]})
df3.iplot(kind='surface',colorscale='rdylbu')
```

Spread

In [ ]:
```
df[['A','B']].iplot(kind='spread')
```

histogram

In [ ]:
```
df['A'].iplot(kind='hist',bins=25)
```

In [ ]:
```
df.iplot(kind='bubble',x='A',y='B',size='C')
```

scatter_matrix()

Similar to sns.pairplot()

In [ ]:
```
df.scatter_matrix()
```