Creating Interacting Charts Using BokehJS

How to draw line charts using BokehJs?

```
In [1]: from bokeh.plotting import figure, show
from bokeh.io import output_notebook

x = [1, 2, 3, 4, 5]
y = [6, 7, 2, 4, 8]

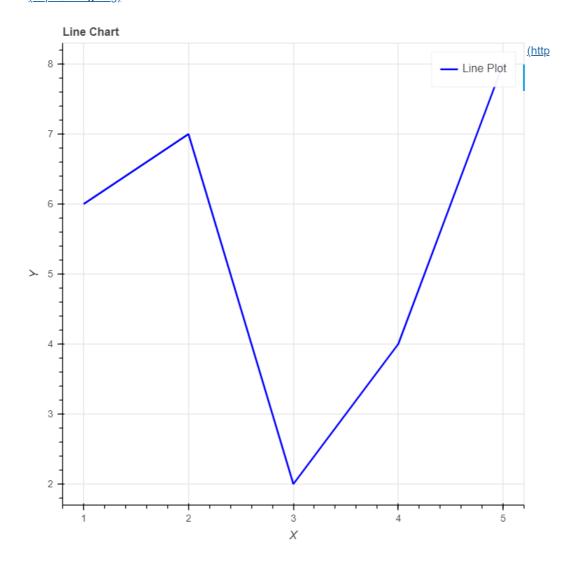
output_notebook()

p = figure(title="Line Chart", x_axis_label='X', y_axis_label='Y')

p.line(x, y, line_width=2, line_color="blue", legend_label="Line Plot")

show(p)
```

(https://adkrehBokehJS ...



How to draw scatter / circle chart Using BokehJS?

```
In [2]: from bokeh.plotting import figure, show
from bokeh.io import output_notebook

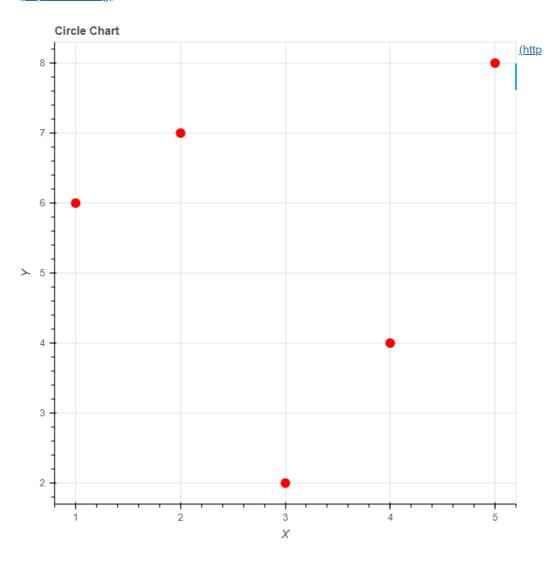
x = [1, 2, 3, 4, 5]
y = [6, 7, 2, 4, 8]

output_notebook()

p = figure(title="Circle Chart", x_axis_label='X', y_axis_label='Y')

p.circle(x, y, size=10, color="red")
show(p)
```

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How to draw Bar Charts Using BokehJS?

```
In [3]: from bokeh.plotting import figure, show
from bokeh.io import output_notebook

x = [1, 2, 3, 4, 5]
y = [6, 7, 2, 4, 8]

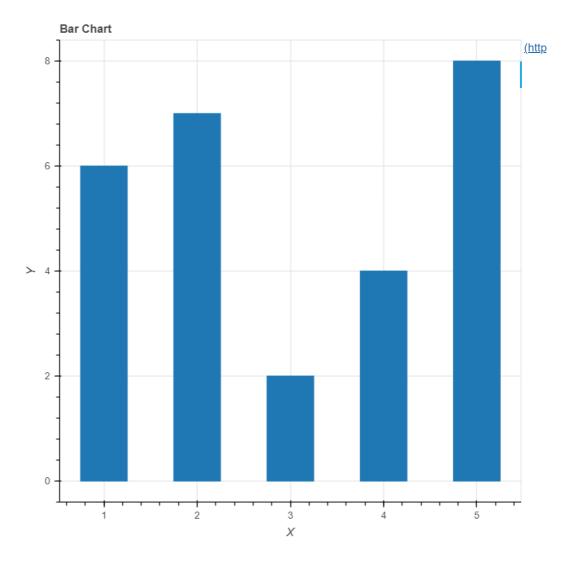
output_notebook()

p = figure(title = 'Bar Chart' , x_axis_label = 'X',y_axis_label = 'Y')

p.vbar(x=x, top=y, width=0.5, bottom=0)

show(p)
```

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Plotting Dataset Using BokehJS

```
In [4]: import seaborn as sns
from sklearn.datasets import load_iris
import pandas as pd
```

```
In [5]: iris = sns.load_dataset('iris')
```

In [6]: iris.head()

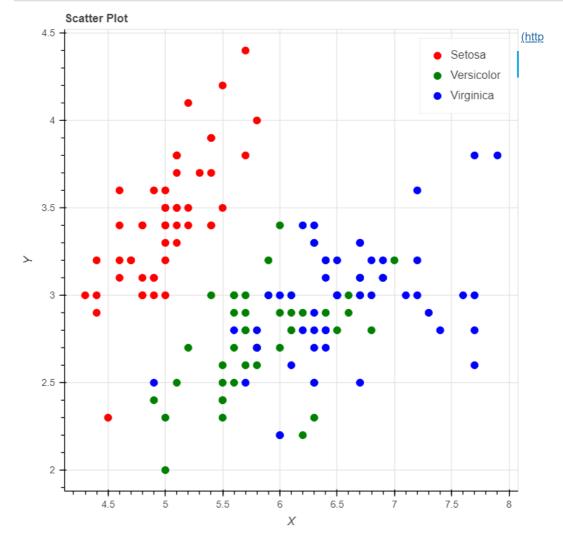
Out[6]:

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa

```
In [7]: p = figure(title = 'Scatter Plot' , x_axis_label = 'X',y_axis_label = 'Y')

p.circle(iris[iris['species'] == 'setosa']['sepal_length'], iris[iris['species'] == 'setosa size=8, color="red", legend_label="Setosa")

p.circle(iris[iris['species'] == 'versicolor']['sepal_length'], iris[iris['species'] == 'versicelength'], iris[iris['species'] == 'versicelength'], iris[iris['species'] == 'versicelength'], iris[iris['species'] == 'virsinica']['sepal_length'], iris[iris['species'] == 'virsinica'], size=8, color="blue", legend_label="Virginica")
```



How to draw BokehJs charts ? (if type is Series!)

```
In [8]: import pandas as pd
        from bokeh.plotting import figure, show
        from bokeh.models import ColumnDataSource
        df_trend_status = {'significantly above': 22, 'above': 21, 'below': 6, 'significantly below
        df_trend_status = pd.Series(df_trend_status)
        p = figure(x_range=list(df_trend_status.index), plot_height=350, title="Trend Status Counts
        source = ColumnDataSource(data=dict(x=list(df_trend_status.index), counts=list(df_trend_status.index)
        p.vbar(x='x', top='counts', width=0.5, source=source, color="blue")
        p.title.text font size = '16pt'
        p.xaxis.major_label_text_font_size = '12pt'
        p.yaxis.major_label_text_font_size = '12pt'
        p.yaxis.axis_label = 'Counts'
        p.yaxis.axis_label_text_font_size = '14pt'
        p.xgrid.grid_line_color = None
        p.y_range.start = 0
        show(p)
```


In []:

above

below

significantly below

significantly above