1 Bokeh Tutorial Sharing and Embedding

1.1 Creating a Plot to Share

```
import pandas as pd
from bokeh.plotting import figure

AAPL = pd.read_csv(
"http://ichart.yahoo.com/table.csv?s=AAPL&a=0&b=1&c=2000&d=0&e=1&f=2015",
parse_dates=['Date'])

MSFT = pd.read_csv(
"http://ichart.yahoo.com/table.csv?s=MSFT&a=0&b=1&c=2000&d=0&e=1&f=2015",
parse_dates=['Date'])

IBM = pd.read_csv(
"http://ichart.yahoo.com/table.csv?s=IBM&a=0&b=1&c=2000&d=0&e=1&f=2015",
parse_dates=['Date'])
```

```
def make_figure():
p = figure(x_axis_type="datetime", width=700, height=300)

p.line(AAPL['Date'], AAPL['Adj Close'], color='#A6CEE3', legend='AAPL')
p.line(IBM['Date'], IBM['Adj Close'], color='#33A02C', legend='IBM')
p.line(MSFT['Date'], MSFT['Adj Close'], color='#FB9A99', legend='MSFT')

p.title = "Stock Closing Prices"
p.grid.grid_line_alpha=0.3
p.xaxis.axis_label = 'Date'
p.yaxis.axis_label = 'Price'
p.legend.orientation = "top_left"
return p
```

Embed functions all look for a Plot object. Common plot objects are:
Plot from models figure from plotting Chart from charts vplot, hplot from plotting Displaying in the Notebook

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

```
In [3]:
output_notebook()
```

BokehJS successfully loaded.

```
In [4]:
p = make_figure()
show(p)
```

Saving to an HTML File

```
In [5]:
from bokeh.io import output_file, show
In [6]:
output_file("tutorial_sharing.html")
In [7]:
p = make_figure()
show(p)   # save(p) will save without opening a new browser tab
```

Templating in HTML Documents In [8]: import jinja2 from bokeh.embed import components

```
</body>

</html>
""")
In [10]:
p = make_figure()
script, div = components(p)
In [11]:
from IPython.display import HTML
HTML(template.render(script=script, div=div))
Out[11]:
Hello Bokeh!
Below is a simple plot of stock closing prices


In [12]:
from flask import Flask
app = Flask(__name__)

@app.route('/')
def hello_bokeh():
```

```
    return template.render(script=script, div=div)
```

In [13]:
```
# Uncomment to run the Flask Server. Use Kernel -> Interrupt from Notebook menuba
#app.run(port=5050)
```

In [14]:
```
# EXERCISE: Create your own template (or modify the one above)
```

In [ ]:

In [9]:
```
template = jinja2.Template("""
<!DOCTYPE html>
<html lang="en-US">

<link
href="http://cdn.pydata.org/bokeh/release/bokeh-0.9.0.min.css"
rel="stylesheet" type="text/css"
>
<script
src="http://cdn.pydata.org/bokeh/release/bokeh-0.9.0.min.js"
></script>

<body>

<h1>Hello Bokeh!</h1>

<p> Below is a simple plot of stock closing prices </p>

{{ script }}

{{ div }}
```