

Bokeh Tutorial

07. Exporting and Embedding

Some Setup

```
In [ ]: import pandas as pd
    from bokeh.plotting import figure
    from bokeh.sampledata.stocks import AAPL

df = pd.DataFrame(AAPL)
    df['date'] = pd.to_datetime(df['date'])
```

Displaying in the Notebook

Saving to an HTML File

```
In [5]: from bokeh.io import output_file, show
In [6]: output_file("plot.html")
In []: p = figure(plot_width=800, plot_height=250, x_axis_type="datetime")
    p.line(df['date'], df['close'], color='navy', alpha=0.5)
    show(p) # save(p) will save without opening a new browser tab
In [7]: from bokeh.io import reset_output
    reset_output()
```

Templating in HTML Documents

```
In [8]: import jinja2
from bokeh.embed import components
```

```
In [9]: # IMPORTANT NOTE!! The version of BokehJS loaded in the template should match
        # the version of Bokeh installed locally.
        template = jinja2.Template("""
        <!DOCTYPE html>
        <html lang="en-US">
            href="http://cdn.pydata.org/bokeh/dev/bokeh-0.12.7rc3.min.css"
            rel="stylesheet" type="text/css"
        <script
            src="http://cdn.pydata.org/bokeh/dev/bokeh-0.12.7rc3.min.js"
        ></script>
        <body>
            <h1>Hello Bokeh!</h1>
             Below is a simple plot of stock closing prices 
            {{ script }}
            {{ div }}
        </body>
        </html>
        """)
```

```
In [10]: p = figure(plot_width=800, plot_height=250, x_axis_type="datetime")
    p.line(df['date'], df['close'], color='navy', alpha=0.5)
    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 [15]: from bokeh.io import export png
          p = figure(plot_width=800, plot_height=250, x_axis_type="datetime")
          p.line(df['date'], df['close'], color='navy', alpha=0.5)
          export_png(p, filename="plot.png")
Out[15]: '/Users/bryan/work/bokeh-notebooks/tutorial/plot.png'
In [16]: from IPython.display import Image
          Image('plot.png')
Out[16]: 700
          600
                                                                                                    ρ
          500
                                                                                                    09
          400
          300
          200
                                                                                                    0
          100
                                                                                                    (?)
           0
                                       2004
              2000
                                                               2008
                                                                                       2012
In [17]: # EXERCISE: Save a layout of plots (e.g. row or column) as SVG and see what happens
In [18]: from bokeh.io import export_svgs
          p = figure(plot_width=800, plot_height=250, x_axis_type="datetime", output_backend='svg')
          p.line(df['date'], df['close'], color='navy', alpha=0.5)
          export svgs(p, filename="plot.svg")
Out[18]: ['plot.svg']
In [19]: from IPython.display import SVG
          SVG('plot.svg')
Out[19]: <IPython.core.display.SVG object>
In [20]: # EXERCISE: Save a layout of plots (e.g. row or column) as SVG and see what happens
```