bokeh_test

April 28, 2015

1 Just setting up my Bkh

In [5]:
```
from bokeh.plotting import figure, output_notebook, show
```

In [6]:
```
# prepare some data
x = [1, 2, 3, 4, 5]
y = [6, 7, 2, 4, 5]

output_notebook()

# create a new plot with a title and axis labels
p = figure(title="simple line example", x_axis_label='x', y_axis_label='y')

# add a line renderer with legend and line thickness
p.line(x, y, legend="Temp.", line_width=2)

# show the results
show(p)
```

In [7]:
```
from sklearn import datasets
digits = datasets.load_digits()
```

In [29]:
```
import pandas as pd
from itertools import cycle
from sklearn import decomposition
from bokeh.models.sources import ColumnDataSource
from bokeh.models.tools import HoverTool
from palettable.tableau import TableauLight_10

pca = decomposition.RandomizedPCA(copy=True, iterated_power=3, n_components=2, whiten=False)
pca_proj = pca.fit_transform(digits.data)

pca_df = pd.DataFrame({'x': pca_proj[:,0],
                       'y': pca_proj[:,1],
                       'color': [TableauLight_10.hex_colors[dt] for dt in digits.target],
                       'target': digits.target})
pca_src = ColumnDataSource(data=pca_df)


fig = figure(title='PCA Projection - digits dataset',
                  x_axis_label='c1', y_axis_label='c2',
                  plot_width=750, plot_height=560)
fig.scatter(source=pca_src, x='x', y='y',
            size=10, fill_alpha=0.9, line_alpha=0.5, line_color='black',
```

```
                fill_color='color')

    hover_tool = HoverTool(tooltips=[("target", "@target"),
                                     ("color", "$color[swatch]:color")],
                           snap_to_data=True)
    fig.add_tools(hover_tool)

    show(fig)
```

In [ ]: