

# Rohit Shenoy #4

CS 4485

# Objectives

1. Generate a static number visualization
2. Generate a dynamic number visualization

# Python + Bokeh (Dynamic)

```
afterpay.py x tonicwater.py x nextage.py x verisign.py x goosehead.py x
1 import numpy as np
2 import random as random
3 from bokeh.io import curdoc, show
4 from bokeh.models import ColumnDataSource, Grid, LinearAxis, Plot, Text
5
6 N = 9
7 x = np.linspace(0, 2, N)
8 y = x
9 text = [str(random.randint(0,N))]
10
11 source = ColumnDataSource(dict(x=x, y=y, text=text))
12
13 plot = Plot(
14     title=None, plot_width=300, plot_height=300,
15     min_border=0, toolbar_location=None)
16
17 glyph = Text(x="x", y="y", text="text", angle=0, text_color="#96deb3")
18 plot.add_glyph(source, glyph)
19
20 xaxis = LinearAxis()
21 plot.add_layout(xaxis, 'below')
22
23 yaxis = LinearAxis()
24 plot.add_layout(yaxis, 'left')
25
26 plot.add_layout(Grid(dimension=0, ticker=xaxis.ticker))
27 plot.add_layout(Grid(dimension=1, ticker=yaxis.ticker))
28
29 curdoc().add_root(plot)
30
31 show(plot)
```

