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CS 4485

Objectives

1. Remove grid lines and tick marks
2. Center numeric display
3. Update numeric viz periodically (e.g. every second or so)

Python + Bokeh (Dynamic)

```
ber.py] - C:\Users\rohit\OneDrive\Documents\College\CS 4485\bokehNumber.py [bokehNumber.py] - PyCharm
Window Help
bokehNumber.py
No Python interpreter configured for the project Configure Python interpreter
1 import numpy as np
2 import random as random
3 from bokeh.io import curdoc, show
4 from bokeh.io.state import *
5 from bokeh.models import ColumnDataSource, Grid, LinearAxis, Plot, Text
6 from bokeh.core import enums
7 from bokeh.core.properties import Enum
8
9 def clear_plot():
10     reset(plot)
11     '''source2 = ColumnDataSource(dict(x=[], y=[], text=[]))
12     glyph2 = Text(x="x", y="y", text="text", text_font_size="200px", text_align="center", text_baseline="middle",
13                 angle=0, text_color="#96deb3")
14     plot.add_glyph(source2, glyph2)
15     print("Cleared")'''
16
17 def add_text():
18     N = 9
19     x = [1]
20     y = [1]
21     text = [str(random.randint(0, N))]
22     source = ColumnDataSource(dict(x=x, y=y, text=text))
23     glyph = Text(x="x", y="y", text="text", text_font_size="200px", text_align="center", text_baseline="middle", angle=0, text_color="#96deb3")
24     plot.add_glyph(source, glyph)
25     print("Printed " + str(text[0]))
26
27 plot = Plot(
28     title=None, plot_width=900, plot_height=600,
29     min_border=0, toolbar_location=None, reset_policy="standard")
30
31 curdoc().add_root(plot)
32
33 add_text()
34 clear_plot()
```

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Next Steps

1. Prevent rewriting
2. Connect to LSL