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In [1]: import plotly as py
import plotly.graph_objs as go
import plotly.io as pio
import numpy as np
import math
from numpy import genfromtxt
import os

resolutionData = 'Data\\Resolution\\'
```

```
In [10]: #Sensor file
FSR = genfromtxt(resolutionData+'fsr.txt', delimiter=',')
IR = genfromtxt(resolutionData+'ir.txt', delimiter=',')
```

Out[10]: 238

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In [17]: #Resolution
corr1 = abs(FSR.max()-FSR.min())
corr2 = abs(IR.max()-IR.min())

#Bar plot
data2 = [go.Bar(
    x=['FSR', 'IR'],
    y=[corr1, corr2],
    text=[corr1, corr2],
    textposition = 'auto',
)]

layout = go.Layout(
    title='Resolution of the FSR and IR sensors'
)

fig = go.Figure(data=data2, layout=layout)
py.offline.plot(fig, filename='Resolution.html')
```

Out[17]: 'file:///C:\\Users\\OndrejSpetko\\Desktop\\School\\MED7\\HRV-tracker\\Breathing\\PostProcessing\\Python\\Resolution.html'

```
In [12]: #Scatter plot
# Create traces
trace0 = go.Scatter(
    x = np.arange(FSR.shape[0]),
    y = FSR,
    mode = 'lines',
    name = 'FSR'
)

trace1 = go.Scatter(
    x = np.arange(IR.shape[0]),
    y = IR,
    mode = 'lines',
    name = 'IR'
)

#FSR
data = [trace0]
py.offline.plot(data, filename='FSRS.html')

#IR
data = [trace1]
py.offline.plot(data, filename='IRS.html')
```

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Out[12]: 'file:///C:\\Users\\OndrejSpetko\\Desktop\\School\\MED7\\HRV-tracker\\Breathing\\PostProcessing\\Python\\IRS.html'
```