12/14/2018 Precision

```
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

totalN = 20
dataImport = 'C:\\Users\\OndrejSpetko\\Desktop\\School\\MED7\\HRV-tracker\\Bre
athing\\SerialListener\\Data\\Precision\\'
```

```
In [11]: #Average
         coefFSR = 0.0
         coefIR = 0.0
         total = 0;
         for x in range(totalN):
             n = str(x+1)
             if os.path.exists(dataImport+n+'.txt'):
                 temp = genfromtxt(dataImport+n+'.txt', delimiter=',')
                  coefFSR += np.var(temp, axis=0)[0]
                  coefIR += np.var(temp, axis=0)[1]
                 total += 1
             else:
                 print(n+" does not exist")
         coefFSR /= totalN
         coefIR /= totalN
         total, coefFSR, coefIR
```

Out[11]: (20, 6.777008890938951, 86.19370423044924)

Out[13]: 'file://C:\\Users\\OndrejSpetko\\Desktop\\School\\MED7\\HRV-tracker\\Breathin g\\PostProcessing\\Python\\Bar.html'