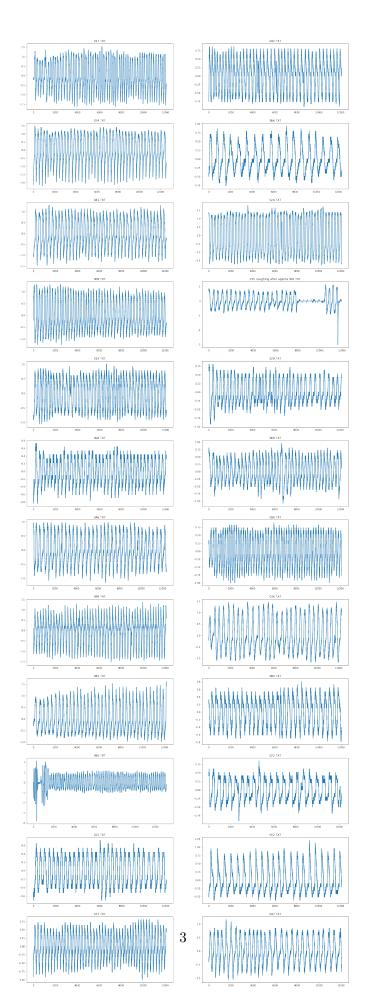
WH001-read-data

October 5, 2019

```
[1]: from os import listdir
      import pandas as pd
      import numpy as np
      import matplotlib.pyplot as plt
 [2]: files = listdir('data')
      print(files)
     ['017.TXT', '074.TXT', '041.TXT', '009.TXT', '014.TXT', '004.TXT', '046.TXT',
     '099.TXT', '081.TXT', '065.TXT', '025.TXT', '072.TXT', '042.TXT', '066.TXT',
     '024.TXT', '015 coughing after approx 90s.TXT', '028.TXT', '069.TXT', '090.TXT',
     '036.TXT', '084.TXT', '022.TXT', '052.TXT', '047.TXT']
 [3]: with open('data/'+files[0]) as f:
          first line = f.readline()
          print(first_line)
     -0.210 -0.111 7.010
                             21.260 10.071 23.000 0.000
                                                             0.992
 [4]: data = np.genfromtxt('data/'+files[0], delimiter='\t')
 [5]: data[0]
 [5]: array([-0.21, -0.111, 7.01, 21.26, 10.071, 23.
                                                         , 0.
                                                                   , 0.992])
[25]: | fig, axs = plt.subplots(len(files)//2,2,figsize=(24, len(files)//2 * 6))
      p=0
      for i in range (2):
          for j in range(len(files)//2):
              if p < len(files):</pre>
                  data = np.genfromtxt('data/'+files[p], delimiter='\t')
                  print(files[p],data.shape)
                  axs[j,i].plot(data[:,0])
                  axs[j,i].set_title(files[p])
                  p+=1
```

```
017.TXT (12069, 8)
074.TXT (12549, 8)
041.TXT (12090, 8)
009.TXT (12092, 8)
014.TXT (12079, 8)
004.TXT (12076, 8)
046.TXT (12336, 8)
099.TXT (12114, 8)
081.TXT (12168, 8)
065.TXT (13092, 8)
025.TXT (12049, 8)
072.TXT (12107, 8)
042.TXT (12075, 8)
066.TXT (12301, 8)
024.TXT (12082, 8)
015 coughing after approx 90s.TXT (11971, 8)
028.TXT (12155, 8)
069.TXT (12111, 8)
090.TXT (12143, 8)
036.TXT (12261, 8)
084.TXT (12060, 8)
022.TXT (12219, 8)
052.TXT (12099, 8)
047.TXT (12042, 8)
```



[]: