Multiple_files

May 8, 2023

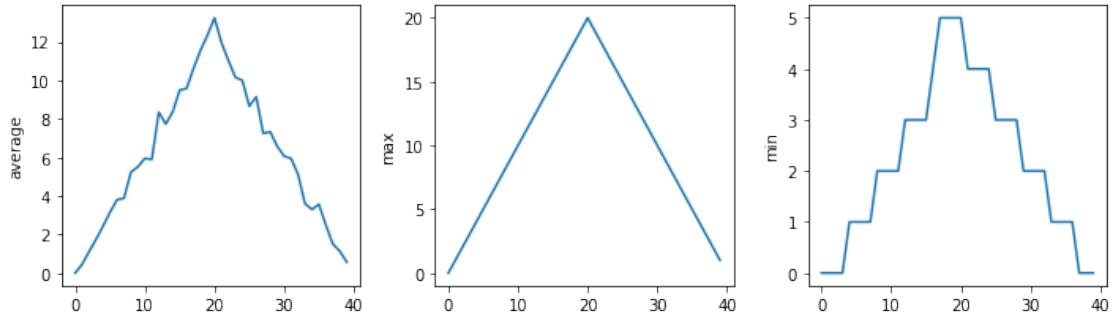
[1]:
```
import glob
```

[2]:
```
print(glob.glob('inflammation*.csv'))
```

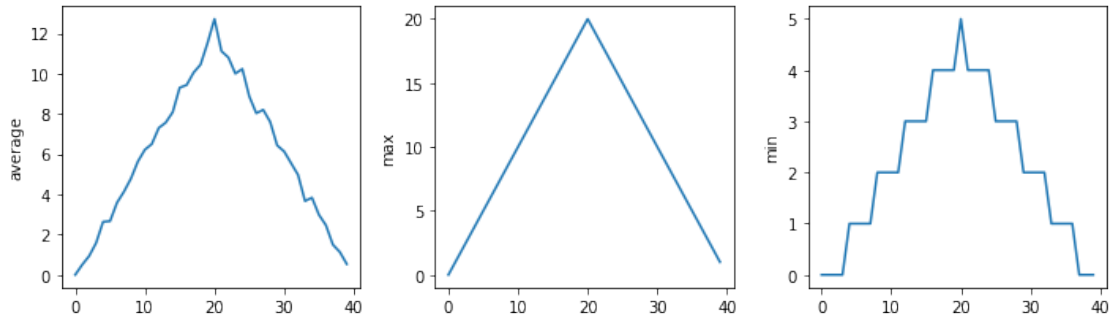
```
['inflammation-05.csv', 'inflammation-12.csv', 'inflammation-04.csv',
'inflammation-08.csv', 'inflammation-10.csv', 'inflammation-06.csv',
'inflammation-09.csv', 'inflammation-01.csv', 'inflammation-07.csv',
'inflammation-11.csv', 'inflammation-03.csv', 'inflammation-02.csv']
```

[7]:
```
import glob
import numpy
import matplotlib.pyplot

filenames = sorted(glob.glob('inflammation*.csv'))
filenames = filenames[0:3]

for filename in filenames:
    print(filename)

    data = numpy.loadtxt(fname=filename, delimiter = ',')

    fig = matplotlib.pyplot.figure(figsize = (10.0, 3.0))

    axes1 = fig.add_subplot(1,3,1)
    axes2 = fig.add_subplot(1,3,2)
    axes3 = fig.add_subplot(1,3,3)

    axes1.set_ylabel('average')
    axes1.plot(numpy.mean(data,axis = 0))

    axes2.set_ylabel('max')
    axes2.plot(numpy.amax(data,axis = 0))

    axes3.set_ylabel('min')
    axes3.plot(numpy.amin(data,axis = 0))

    fig.tight_layout()
    matplotlib.pyplot.show()
```

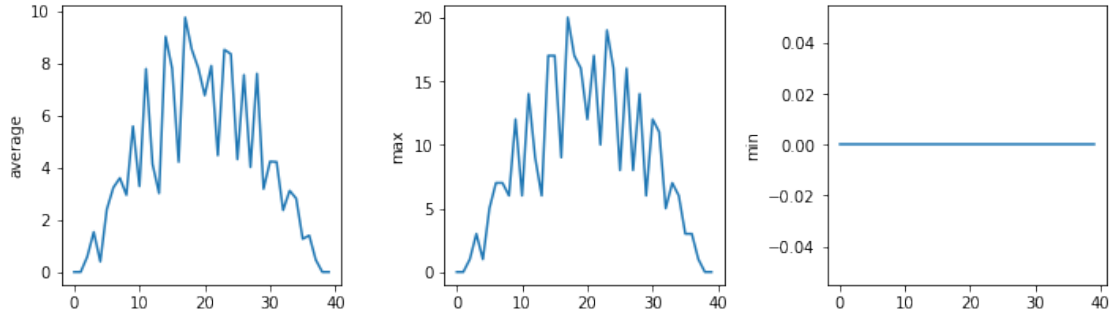
inflammation-01.csv



inflammation-02.csv



inflammation-03.csv



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