

Pipeline_simple

March 13, 2018

```
In [2]: %matplotlib inline
        %load_ext autoreload
        %autoreload 2
        import pipeline1 as pi
        import matplotlib.pyplot as plt
```

The autoreload extension is already loaded. To reload it, use:
%reload_ext autoreload

```
In [3]: Genes = pi.Genes()
        gene = Genes.genevect['YAL019W'] #we get the one gene dataset we have in our
        Genes.preprocess(gene)
        centroids, labels = Genes.clusterize(gene)
```

YAL019W

```
-----

NameError                                Traceback (most recent call last)

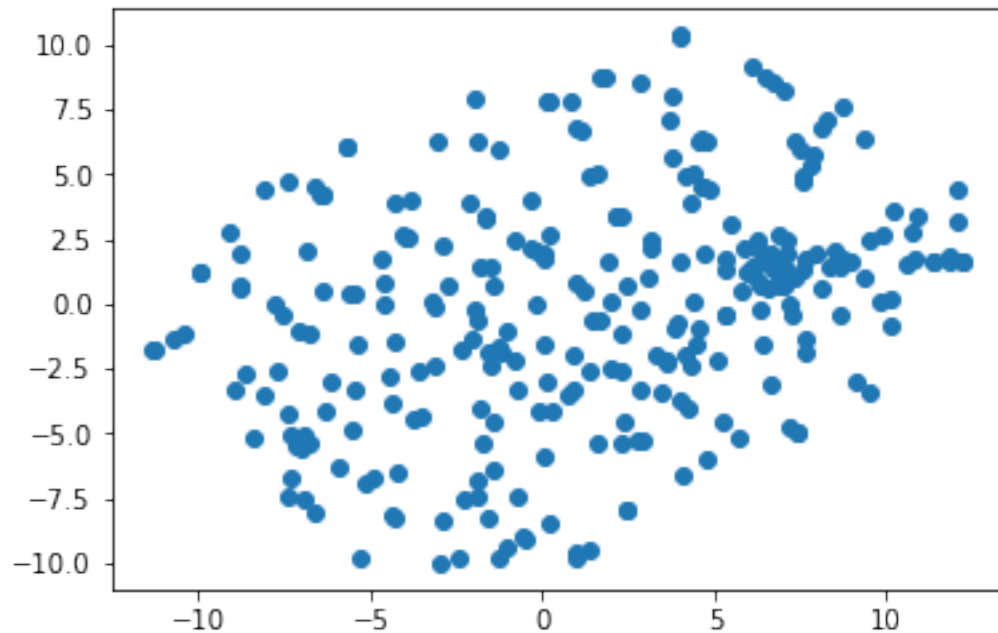
<ipython-input-3-879d69a16f72> in <module>()
----> 1 Genes = pi.Genes()
      2 gene = Genes.genevect['YAL019W'] #we get the one gene dataset we have in our
      3 Genes.preprocess(gene)
      4 centroids, labels = Genes.clusterize(gene)

/Users/jeremie/Documents/Projects/Python/MasterProj/pipeline1.py in __init__(self)
     42         for gene in self.genelist:
     43             try:
----> 44                 gentab, genreg, species = self.readcods_gene(folder, gene)
     45                 if len(species) > minspecies:
     46                     self.genereg.update({gene:genreg})
```



```
In [11]: plt.scatter(tsne[:,0],tsne[:,1])
```

```
Out[11]: <matplotlib.collections.PathCollection at 0x111b12650>
```



0.2 Interactive plot :

```
In [6]: from bokeh.plotting import *  
        from bokeh.models import HoverTool  
        from bokeh.io import output_notebook  
        output_notebook()
```

```
In [8]: GA = pi.Genes()  
        GA.plot_gene(tsne, Genes.specieslist[0], centroids=centroids, labels=labels)
```

```
Out[8]: Figure(id='e80b7ff9-4850-459d-a4dc-9e6f558291d3', ...)
```

debug and trials

```
In [36]: import numpy as np  
         import pandas as pd  
  
         a = ['a', 'e', 'b', 'c']  
         b = ['a', 'c', 'v', 'e']  
         set(a) | set(b)  
  
Out[36]: {'a', 'b', 'c', 'e', 'v'}
```

```

In [133]: b = pd.DataFrame()

In [134]: df2 = pd.DataFrame([[5, 6], [7, 8]], columns=list('AB'))
          b = b.append(df2)
          b

Out[134]:
```

	A	B
0	5	6
1	7	8

```

In [138]: a = b.loc[1,:]
          c = pd.DataFrame(a).transpose()

In [139]: a

Out[139]:
```

	A	B
1	7	8

```

          Name: 1, dtype: int64

In [140]: c

Out[140]:
```

	A	B
1	7	8

```

In [141]: c.rename(index={1: 'Ahaha'})

Out[141]:
```

	A	B
Ahaha	7	8

```

In [142]: c

Out[142]:
```

	A	B
1	7	8

```

In [144]: b = b.append(c.rename(index={1: 'Ahaha'}))
          b

Out[144]:
```

	A	B
0	5	6
1	7	8
1	7	8
Ahaha	7	8

```

In [ ]:
```