```
In [61]:
         import numpy as np
         import pandas
         from pandas import DataFrame, Series
         import statsmodels.formula.api as sm
         from sklearn.linear model import LinearRegression
         import scipy, scipy.stats
         #import matplotlib.pyplot as plt
         %matplotlib inline
         data_str = '''Region Alcohol Tobacco
In [62]:
         North 6.47 4.03
         Yorkshire 6.13 3.76
         Northeast 6.19 3.77
         East-Midlands 4.89 3.34
         West-Midlands 5.63 3.47
         East-Anglia 4.52 2.92
         Southeast 5.89 3.20
         Southwest 4.79 2.71
         Wales 5.27 3.53
         Scotland 6.08 4.51
         Northern-Ireland 4.02 4.56'''
In [63]:
         d = data str.split('\n')
In [64]:
Out[64]: ['Region Alcohol Tobacco',
          'North 6.47 4.03',
          'Yorkshire 6.13 3.76',
           'Northeast 6.19 3.77',
          'East-Midlands 4.89 3.34',
          'West-Midlands 5.63 3.47',
          'East-Anglia 4.52 2.92',
           'Southeast 5.89 3.20',
          'Southwest 4.79 2.71',
          'Wales 5.27 3.53',
           'Scotland 6.08 4.51',
          'Northern-Ireland 4.02 4.56']
In [65]: d = [ i.split(' ') for i in d ]
```

```
In [66]: d
Out[66]: [['Region', 'Alcohol', 'Tobacco'],
            ['North', '6.47', '4.03'],
            ['Yorkshire', '6.13', '3.76'], ['Northeast', '6.19', '3.77'],
            ['East-Midlands', '4.89', '3.34'], ['West-Midlands', '5.63', '3.47'],
            ['East-Anglia', '4.52', '2.92'],
            ['Southeast', '5.89', '3.20'],
            ['Southwest', '4.79', '2.71'],
            ['Wales', '5.27', '3.53'],
            ['Scotland', '6.08', '4.51'],
            ['Northern-Ireland', '4.02', '4.56']]
In [67]: for i in range(len(d)):
               for j in range(len(d[0])):
                    #print j
                    try:
                         d[i][j] = float(d[i][j])
                    except:
                         pass
```

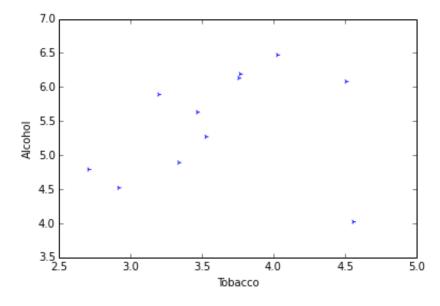
In [68]: df = DataFrame (d[1:], columns =d[0])

In [69]: df

Out[691:

	Region	Alcohol	Tobacco
0	North	6.47	4.03
1	Yorkshire	6.13	3.76
2	Northeast	6.19	3.77
3	East-Midlands	4.89	3.34
4	West-Midlands	5.63	3.47
5	East-Anglia	4.52	2.92
6	Southeast	5.89	3.20
7	Southwest	4.79	2.71
8	Wales	5.27	3.53
9	Scotland	6.08	4.51
10	Northern-Ireland	4.02	4.56

Out[70]: <matplotlib.text.Text at 0x7f1437e5f450>



```
In []:
```