Axis Param

November 17, 2016

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In [1]: import pandas as pd

In [2]: drinks = pd.read_csv('http://bit.ly/drinksbycountry')

In [3]: drinks.head()
```

Out[3]:

	country	beer_servings	spirit_servings	wine_servings	total_litres_of_pure_alcohol	continent
0	Afghanistan	0	0	0	0.0	Asia
1	Albania	89	132	54	4.9	Europe
2	Algeria	25	0	14	0.7	Africa
3	Andorra	245	138	312	12.4	Europe
4	Angola	217	57	45	5.9	Africa

```
In [4]: drinks.drop('continent', axis=1).head() # get rid of continent column -> ax
```

Out[4]:

	country	beer_servings	spirit_servings	wine_servings	total_litres_of_pure_alcohol
0	Afghanistan	0	0	0	0.0
1	Albania	89	132	54	4.9
2	Algeria	25	0	14	0.7
3	Andorra	245	138	312	12.4
4	Angola	217	57	45	5.9

```
In [7]: drinks.drop(1, axis=0).head() # drops the first row ie Albania, displays he
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Out[7]:              country  beer_servings  spirit_servings  wine_servings  \
        0        Afghanistan              0                0              0
        2            Algeria             25                0             14
        3            Andorra            245              138            312
        4             Angola            217               57             45
        5  Antigua & Barbuda            102              128             45

           total_litres_of_pure_alcohol      continent
        0                           0.0           Asia
        2                           0.7         Africa
        3                          12.4         Europe
        4                           5.9         Africa
        5                           4.9  North America

In [8]: drinks.mean()

Out[8]: beer_servings                   106.160622
        spirit_servings                  80.994819
        wine_servings                    49.450777
        total_litres_of_pure_alcohol      4.717098
        dtype: float64

In [9]: drinks.mean(axis=0) # assumes axis = 0

Out[9]: beer_servings                   106.160622
        spirit_servings                  80.994819
        wine_servings                    49.450777
        total_litres_of_pure_alcohol      4.717098
        dtype: float64

In [10]: drinks.mean(axis = 1) # gives mean of each row, eg mean of rows in 0 -> A

Out[10]: 0        0.000
         1       69.975
         2        9.925
         3      176.850
         4       81.225
         5       69.975
         6      111.825
         7       53.700
         8      138.850
         9      138.675
         10      18.325
         11      88.825
         12      28.500
         13       0.000
         14      89.575
         15     142.850
         16     150.375
```

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17      97.950
18      13.025
19       5.850
20      54.950
21      65.400
22      62.100
23     103.300
24       8.650
25     146.825
26      10.825
27      23.575
28      12.250
29      55.000
        ...
163     79.650
164     24.675
165    101.300
166    143.800
167     14.250
168      4.325
169     91.100
170     55.725
171      1.525
172     14.575
173     15.775
174     91.600
175     18.825
176     20.350
177     31.050
178     14.250
179     15.575
180    124.225
181     39.700
182    137.600
183     12.175
184    124.925
185     94.150
186     34.100
187     12.725
188    110.925
189     29.000
190      1.525
191     14.375
192     22.675
dtype: float64
```

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In [11]: drinks.mean(axis='index') # gives you axis as a strin
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Out[11]: beer_servings                   106.160622
```

```
spirit_servings                  80.994819
wine_servings                    49.450777
total_litres_of_pure_alcohol      4.717098
dtype: float64
```

In [ ]: