

```
import pandas as pd

data = pd.DataFrame(np.arange(16).reshape((4, 4)),
index=['Ohio', 'Colorado', 'Utah', 'New York'],
columns=['one', 'two', 'three', 'four'])
data
```

	one	two	three	four
Ohio	0	1	2	3
Colorado	4	5	6	7
Utah	8	9	10	11
New York	12	13	14	15

```
divider = pd.DataFrame(np.arange(4).reshape((4, 1)),
index=['Ohio', 'Colorado', 'Utah', 'New York'],columns=['x'])
divider
```

	x
Ohio	0
Colorado	1
Utah	2
New York	3

```
my_div = lambda x: x / divider['x']
df = data.apply(my_div,axis=0)
df
```

	one	two	three	four
Ohio	0	0	0	0
Colorado	4	5	6	7
Utah	4	4	5	5
New York	4	4	4	5