

```
'readings': time
2020-01-08 14:42:45.630    1.3
2020-01-08 14:45:00.627    1.4
2020-01-08 14:46:11.680    1.3
2020-01-08 14:58:07.627    1.4
2020-01-08 14:59:21.610    1.3
...
2020-10-17 22:43:13.047    1.3
2020-10-17 22:43:26.010    1.3
2020-10-17 22:47:33.073    1.4
2020-10-17 22:50:52.040    1.3
2020-10-17 22:55:48.057    1.4
```

Raw Series for one home

```
time
2020-01-08 14:00:00    1.750000
2020-01-08 15:00:00    1.747619
2020-01-08 16:00:00    1.750000
2020-01-08 17:00:00    1.727273
2020-01-08 18:00:00    1.766667
...
2020-10-17 18:00:00    1.766667
2020-10-17 19:00:00    1.800000
2020-10-17 20:00:00    1.755556
2020-10-17 21:00:00    1.800000
2020-10-17 22:00:00    1.800000
```

Resampled Series for one home

If used in each hour each day?

```
time
2020-01-08 14:00:00    0.0
2020-01-08 15:00:00    0.0
2020-01-08 16:00:00    0.0
2020-01-08 17:00:00    0.0
2020-01-08 18:00:00    0.0
...
2020-10-17 18:00:00    0.0
2020-10-17 19:00:00    0.0
2020-10-17 20:00:00    0.0
2020-10-17 21:00:00    0.0
2020-10-17 22:00:00    0.0
```

IfUsedInEachHour Series for one appliance

count and sum for each appliance in each hour

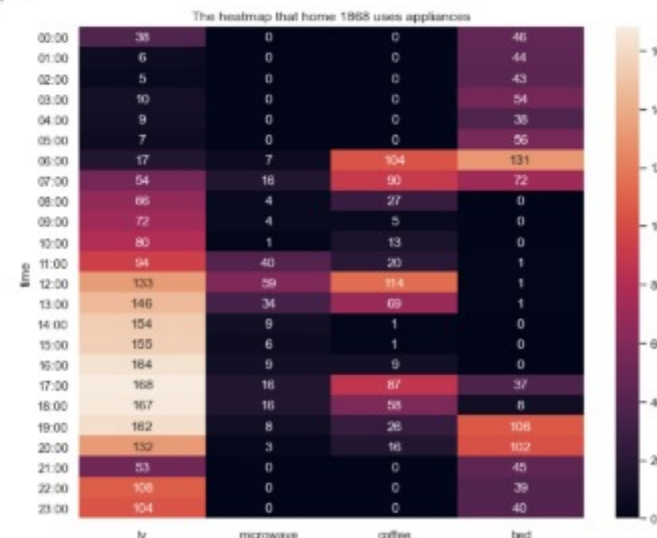
TimesUsedInEachHour DataFrame for one home

← sns.heatmap()

TimesUsedInEachHour HeatMap for one home

Patterns

0-6 bed
6-7 bed; coffee
7-8 bed; coffee; tv
8-11 tv
11-12 microwave; tv
12-14 microwave; tv; coffee
14-17 tv
17-19 tv; coffee
19-24 tv; bed



```
time  tv  microwave  coffee  bed
00:00  38         0         0   46
01:00   6         0         0   44
02:00   5         0         0   43
03:00  10         0         0   54
04:00   9         0         0   38
...   ...         ...         ...   ...
19:00 162         8        26  106
20:00 132         3        16  102
21:00  53         0         0   45
22:00 108         0         0   39
23:00 104         0         0   40
```