Q1

1(a): Number of reviews each property receives in each city

Output 1: Summarised statistics for reviews, Paris and Copenhagen

```
COPENHAGEN:
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    0.00    1.00    4.00   10.26   12.00  400.00


##############################################################################

PARIS:
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    0.00    0.00    4.00   14.61   14.00  529.00
```
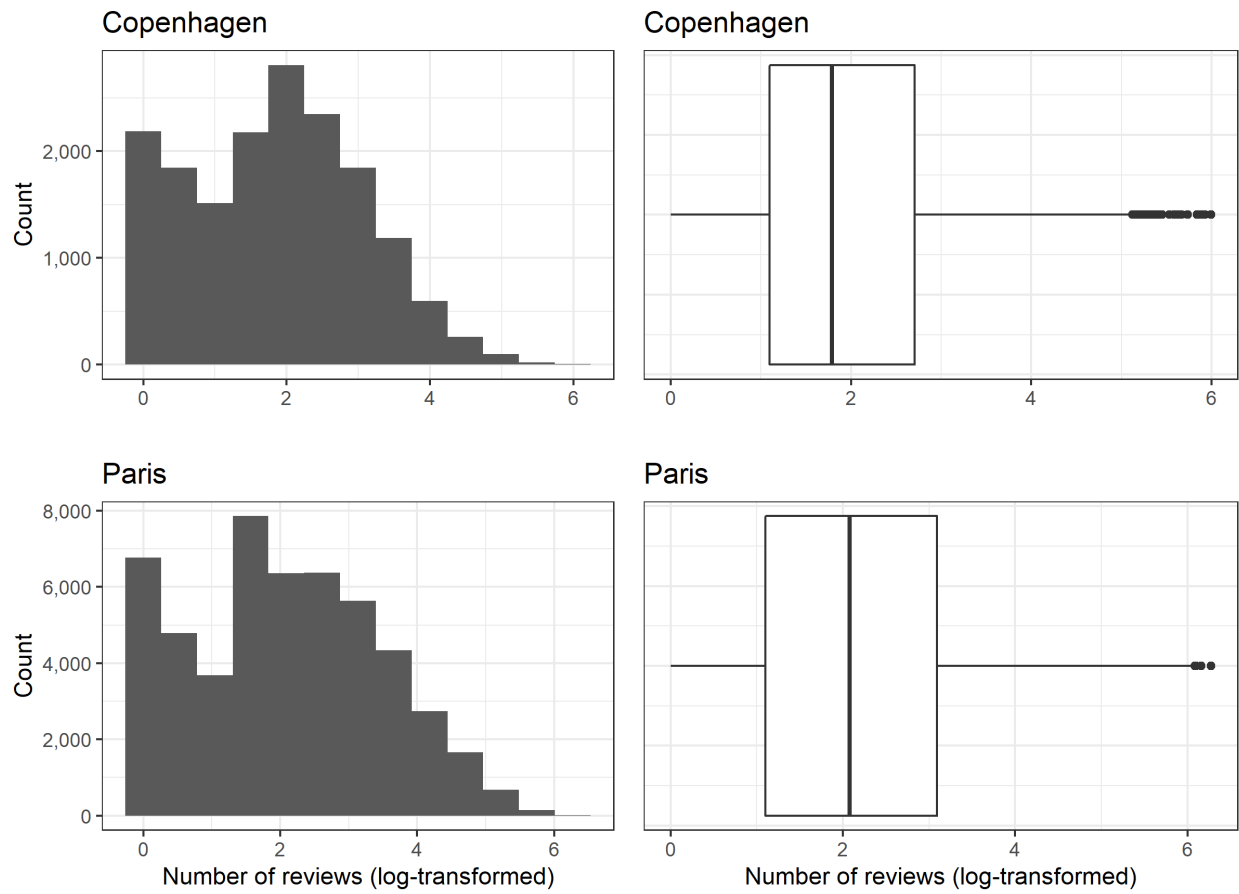
Table 1: Number of reviews per property, Paris and Copenhagen

Number of reviews per property	Paris total	Paris %	Copenhagen total	Copenhagen %
0	19,103	27.2%	4,421	20.8%
1 to 10	29,461	42%	11,008	51.7%
11 to 50	16,365	23.3%	5,163	24.2%
51 to 100	3,409	4.9%	534	2.5%
101 to 200	1,497	2.1%	152	0.7%
201 to 300	276	0.4%	18	0.1%
301 to 400	36	0.1%	5	0%
over 400	11	0%	0	0
TOTAL	**70,158**	**100%**	**21,301**	**100%**

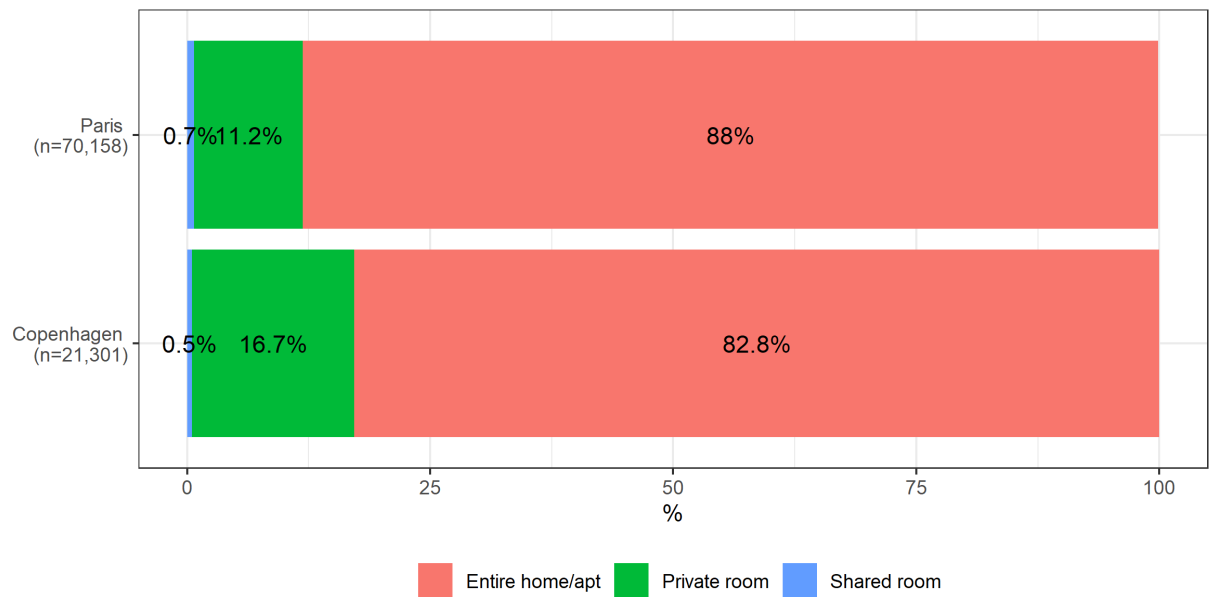**Figure 1: Boxplots and histograms for log(reviews), Paris and Copenhagen**

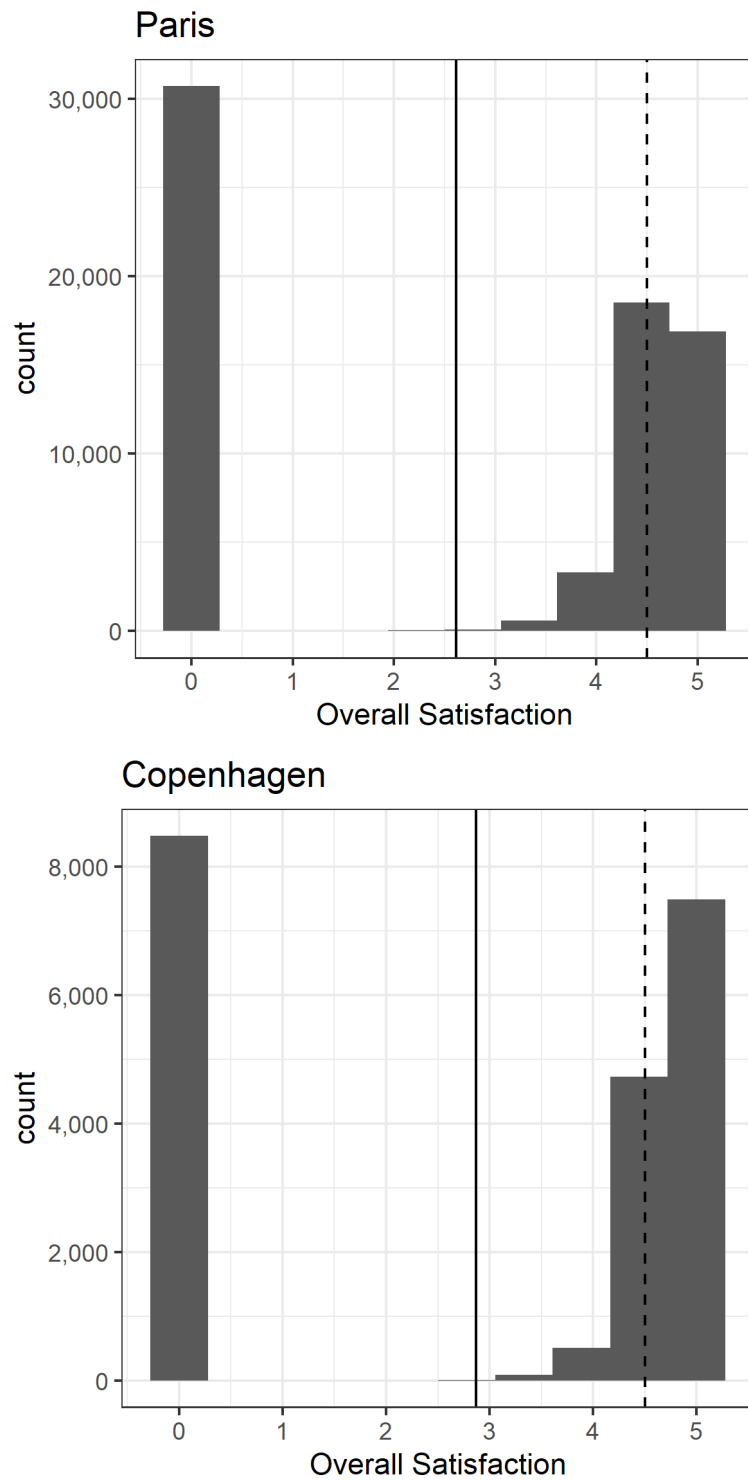Note: All properties with no reviews have been omitted

1(b): Room type in each property by city

Figure 2: Roomtype by city, Paris and Copenhagen

1(c): Satisfaction by property

Figure 3: Satisfaction by city, Paris and Copenhagen

Note: Solid line is mean and dashed line is median

Output 1a: Satisfaction rating by number of reviews

```
PARIS:

## # A tibble: 846 x 5
## # Groups:   reviews [332]
##     reviews overall_satisfaction total totals     prop
##       <int>                <dbl> <int>  <dbl>    <dbl>
##  1       0                    0 19103  70158 27.2
##  2       1                    0  6766  70158  9.64
##  3       2                    0  4790  70158  6.83
##  4       3                    0    25  70158  0.0356
##  5       4                    0     7  70158  0.00998
##  6       5                    0     3  70158  0.00428
##  7       6                    0     2  70158  0.00285
##  8       7                    0     2  70158  0.00285
##  9      10                    0     1  70158  0.00143
## 10       3                    1     5  70158  0.00713
## # ... with 836 more rows


################################################################################

COPENHAGEN:

## # A tibble: 396 x 5
## # Groups:   reviews [186]
##     reviews overall_satisfaction total totals     prop
##       <int>                <dbl> <int>  <dbl>    <dbl>
##  1       0                    0  4421  21301 20.8
##  2       1                    0  2187  21301 10.3
##  3       2                    0  1845  21301  8.66
##  4       3                    0    11  21301  0.0516
##  5       4                    0     5  21301  0.0235
##  6       5                    0     4  21301  0.0188
##  7       6                    0     1  21301  0.00469
##  8       8                    0     1  21301  0.00469
##  9       5                  1.5     1  21301  0.00469
## 10       4                    2     2  21301  0.00939
## # ... with 386 more rows
```