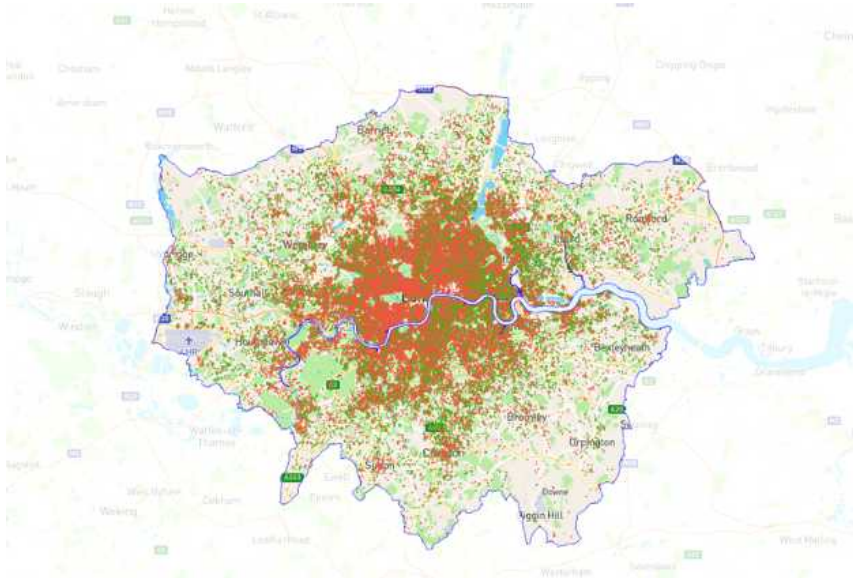
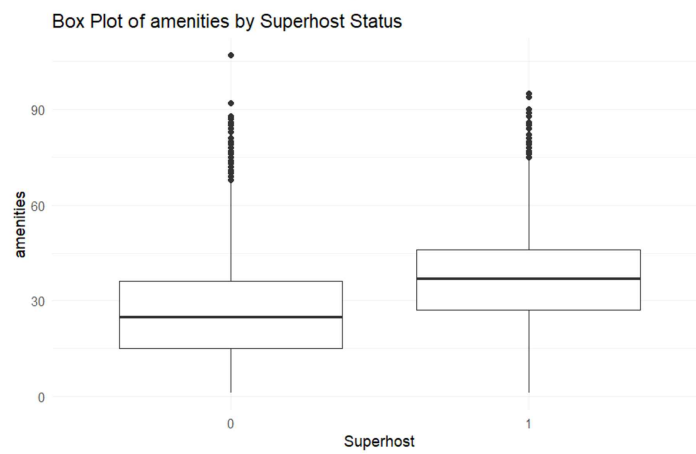
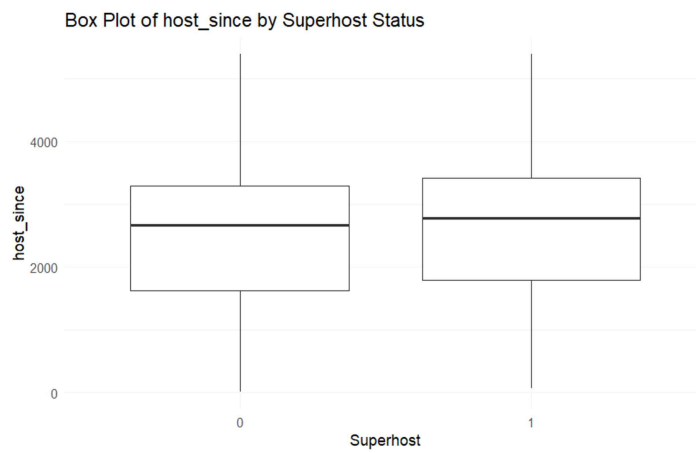
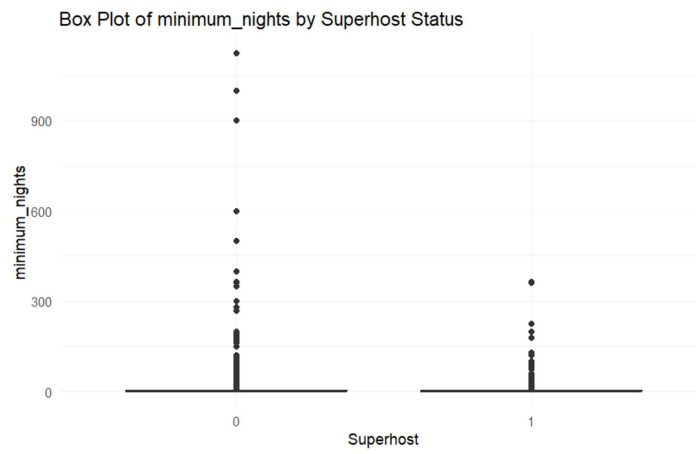


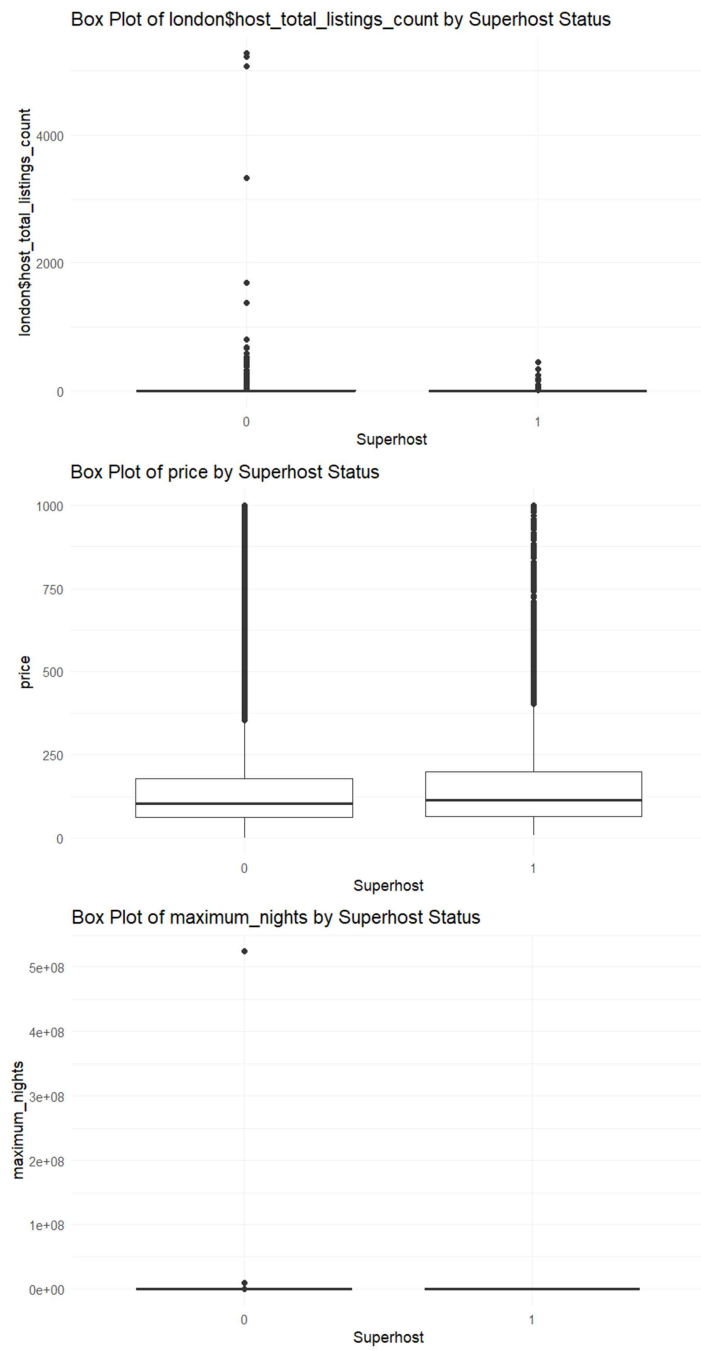
부록 1



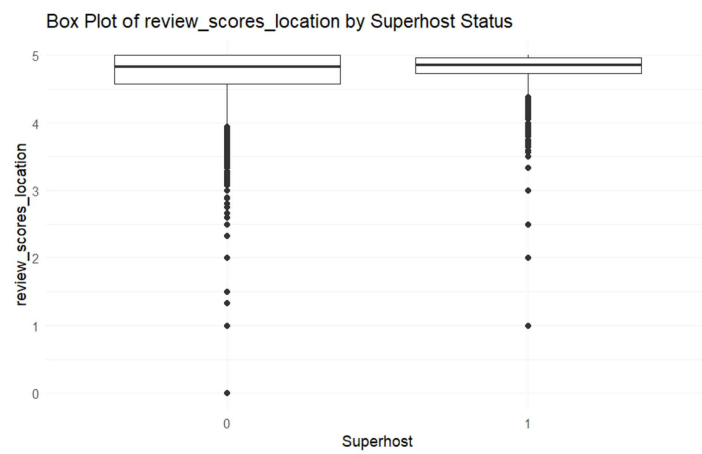
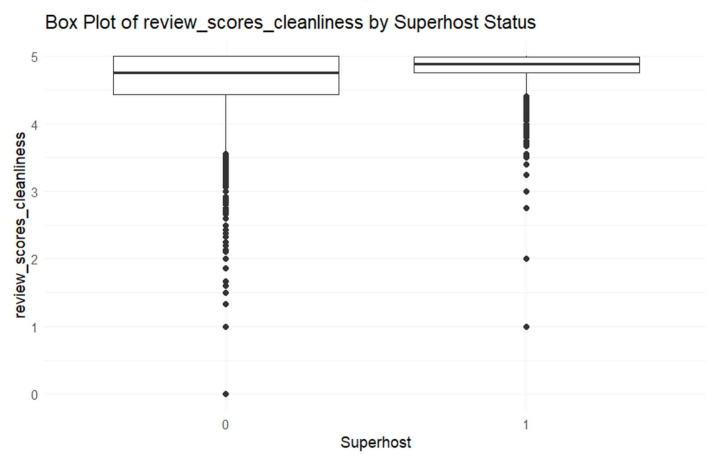
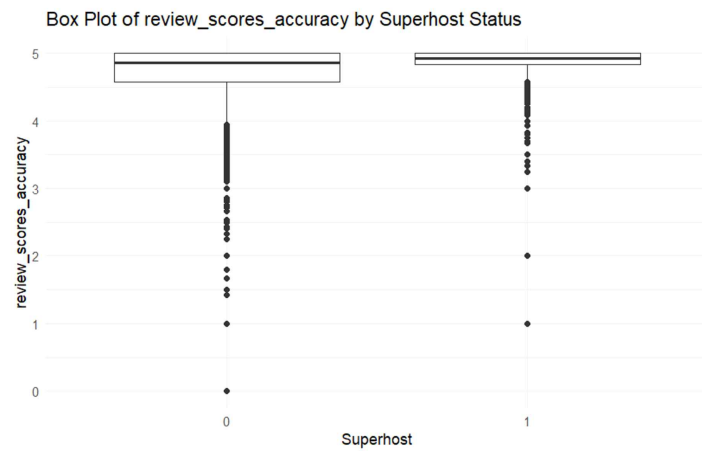
<그림 1>

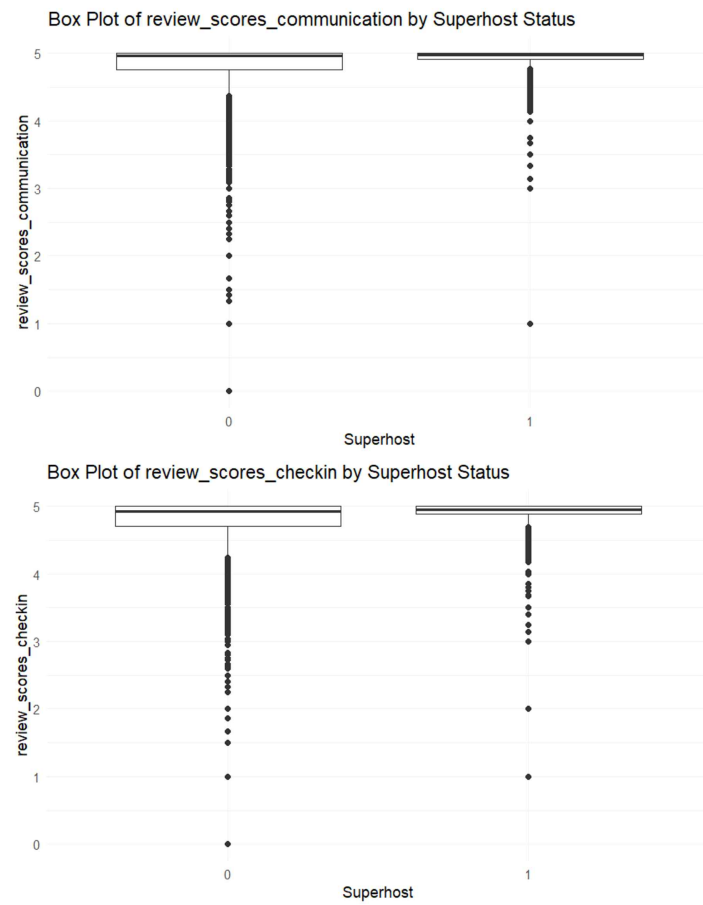






<그림 2>





<그림 3>

부록 2

```
> deviance_value <- anova(mod2, test = "chisq") # deviance 확인
> deviance_value
```

Analysis of Deviance Table

Model: binomial, link: logit

Response: host_is_superhost

Terms added sequentially (first to last)

	Df	Deviance	Resid. Df	Resid. Dev	Pr(>Chi)
NULL			45163	41164	
description	1	736.4	45162	40427	< 2.2e-16 ***
host_since	1	21.2	45161	40406	4.093e-06 ***
host_about	1	200.7	45160	40205	< 2.2e-16 ***
host_response_time	4	5596.1	45156	34609	< 2.2e-16 ***
host_response_rate	1	380.2	45155	34229	< 2.2e-16 ***
host_total_listings_count	1	265.7	45154	33963	< 2.2e-16 ***
host_has_profile_pic	1	23.3	45153	33940	1.353e-06 ***
room_type	3	409.6	45150	33531	< 2.2e-16 ***
accommodates	1	25.0	45149	33505	5.606e-07 ***
bathrooms_text	1	5.0	45148	33500	0.02474 *
amenities	1	918.9	45147	32582	< 2.2e-16 ***
price	1	228.5	45146	32353	< 2.2e-16 ***
minimum_nights	1	21.1	45145	32332	4.423e-06 ***
maximum_nights	1	0.0	45144	32332	0.92866
number_of_reviews_ltm	1	1417.1	45143	30915	< 2.2e-16 ***
instant_bookable	1	85.5	45142	30829	< 2.2e-16 ***
review_scores	1	3903.1	45141	26926	< 2.2e-16 ***

 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

<그림1>

```

> summary(mod0) # AIC: 24037

Call:
glm(formula = host_is_superhost ~ ., family = binomial(link = "logit"),
    data = london)

Coefficients:
              Estimate Std. Error z value Pr(>|z|)
(Intercept) -5.084e+01  1.165e+00 -43.625 < 2e-16 ***
description  4.209e-03  5.714e-04   7.366 1.76e-13 ***
host_since   1.319e-04  1.495e-05   8.821 < 2e-16 ***
host_about   5.187e-03  6.001e-04   8.644 < 2e-16 ***
host_response_timeNoInfo 7.006e-01  2.881e-01   2.431 0.015038 *
host_response_timewithin a day -7.047e-01  3.531e-01  -1.996 0.045958
host_response_timewithin a few hours -4.167e-01  3.605e-01  -1.156 0.247635
host_response_timewithin an hour -1.126e-01  3.619e-01  -0.311 0.755735
host_response_rate 3.139e-02  3.204e-03   9.797 < 2e-16 ***
host_total_listings_count 8.158e-03  4.317e-03   1.890 0.058793 .
host_has_profile_pic1 2.876e-01  1.198e-01   2.400 0.016409 *
room_typeHotel room -1.221e+00  8.715e-01  -1.401 0.161299
room_typePrivate room 5.012e-01  4.688e-02  10.692 < 2e-16 ***
room_typeshared room -6.270e-01  3.689e-01  -1.699 0.089254 .
accommodates -1.150e-01  1.470e-02  -7.823 5.16e-15 ***
bathrooms_text -1.836e-01  4.007e-02  -4.581 4.64e-06 ***
amenities      2.013e-02  1.213e-03  16.598 < 2e-16 ***
price          3.309e-03  3.581e-04   9.241 < 2e-16 ***
minimum_nights 9.079e-02  1.368e-02   6.639 3.15e-11 ***
maximum_nights 1.523e-04  3.460e-05   4.403 1.07e-05 ***
number_of_reviews_ltm 5.532e-02  1.322e-03  41.847 < 2e-16 ***
review_scores_rating 7.031e+00  2.221e-01  31.652 < 2e-16 ***
review_scores_accuracy 5.311e-01  1.582e-01   3.358 0.000785 ***
review_scores_cleanliness 6.185e-01  1.001e-01   6.182 6.33e-10 ***
review_scores_checkin 2.318e-01  1.300e-01   1.783 0.074555 .
review_scores_communication 1.086e+00  2.177e-01   4.988 6.10e-07 ***
review_scores_location -4.506e-01  7.779e-02  -5.792 6.94e-09 ***
instant_bookable1 -1.582e-01  4.280e-02  -3.696 0.000219 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 38590  on 42879  degrees of freedom
Residual deviance: 23981  on 42852  degrees of freedom
AIC: 24037

Number of Fisher Scoring iterations: 8

```

<그림2>


```

> summary(mod1) # AIC: 25910

Call:
glm(formula = host_is_superhost ~ ., family = binomial(link = "logit"),
     data = london)

Coefficients:
              Estimate Std. Error z value Pr(>|z|)
(Intercept) -5.215e+01  1.124e+00 -46.380 < 2e-16 ***
description  4.116e-03  5.502e-04   7.480 7.44e-14 ***
host_since   1.343e-04  1.431e-05   9.382 < 2e-16 ***
host_about   5.247e-03  5.719e-04   9.176 < 2e-16 ***
host_response_timeNoInfo 7.376e-01  2.787e-01   2.646 0.008139 **
host_response_timewithin a day -7.916e-01  3.413e-01  -2.320 0.020358 *
host_response_timewithin a few hours -5.040e-01  3.484e-01  -1.447 0.148018
host_response_timewithin an hour -2.118e-01  3.498e-01  -0.606 0.544786
host_response_rate  3.233e-02  3.086e-03  10.475 < 2e-16 ***
host_total_listings_count  7.690e-03  4.066e-03   1.891 0.058610 .
host_has_profile_pic1  3.131e-01  1.169e-01   2.677 0.007423 **
room_typeHotel room -1.605e+00  8.393e-01  -1.912 0.055905 .
room_typePrivate room  5.548e-01  4.787e-02  11.592 < 2e-16 ***
room_typeShared room -5.341e-01  3.708e-01  -1.440 0.149760
accommodates -1.513e-01  1.524e-02  -9.928 < 2e-16 ***
bathrooms_text  6.288e-02  1.919e-02   3.277 0.001049 **
amenities      1.976e-02  1.157e-03  17.081 < 2e-16 ***
price         3.894e-01  3.815e-02  10.208 < 2e-16 ***
minimum_nights 8.628e-02  1.307e-02   6.603 4.02e-11 ***
maximum_nights 1.754e-04  3.334e-05   5.261 1.44e-07 ***
number_of_reviews_ltm 5.531e-02  1.286e-03  42.999 < 2e-16 ***
review_scores_rating 6.932e+00  2.136e-01  32.455 < 2e-16 ***
review_scores_accuracy 5.201e-01  1.508e-01   3.448 0.000565 ***
review_scores_cleanliness 6.302e-01  9.705e-02   6.494 8.36e-11 ***
review_scores_checkin  2.627e-01  1.252e-01   2.099 0.035803 *
review_scores_communication 1.041e+00  2.075e-01   5.015 5.30e-07 ***
review_scores_location -4.178e-01  7.652e-02  -5.460 4.77e-08 ***
instant_bookable1 -1.490e-01  4.099e-02  -3.634 0.000279 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 41164  on 45163  degrees of freedom
Residual deviance: 25854  on 45136  degrees of freedom
AIC: 25910

Number of Fisher Scoring iterations: 8

```

<그림3>


```

> summary(mod2) # AIC: 26972

Call:
glm(formula = host_is_superhost ~ ., family = binomial(link = "logit"),
    data = london)

Coefficients:
              Estimate Std. Error z value Pr(>|z|)
(Intercept) -4.869e+01  9.317e-01 -52.261 < 2e-16 ***
description  3.309e-03  5.402e-04   6.125 9.09e-10 ***
host_since   1.240e-04  1.405e-05   8.824 < 2e-16 ***
host_about   4.868e-03  5.504e-04   8.843 < 2e-16 ***
host_response_timeNoInfo 6.843e-01  2.773e-01   2.468 0.013595 *
host_response_timewithin a day -7.471e-01  3.385e-01  -2.207 0.027318 *
host_response_timewithin a few hours -4.560e-01  3.456e-01  -1.319 0.187006
host_response_timewithin an hour -1.686e-01  3.469e-01  -0.486 0.626889
host_response_rate  3.169e-02  3.044e-03  10.410 < 2e-16 ***
host_total_listings_count -6.147e-03  3.948e-03  -1.557 0.119541
host_has_profile_pic1  2.957e-01  1.159e-01   2.550 0.010758 *
room_typeHotel room -1.689e+00  8.065e-01  -2.094 0.036227 *
room_typePrivate room  5.043e-01  4.682e-02  10.770 < 2e-16 ***
room_typeShared room -6.612e-01  3.622e-01  -1.825 0.067947 .
accommodates -1.285e-01  1.494e-02  -8.604 < 2e-16 ***
bathrooms_text  5.092e-02  1.883e-02   2.705 0.006839 **
amenities      2.247e-02  1.140e-03  19.703 < 2e-16 ***
price          2.704e-01  3.681e-02   7.345 2.06e-13 ***
minimum_nights 9.311e-02  1.284e-02   7.253 4.08e-13 ***
maximum_nights 1.191e-04  3.254e-05   3.659 0.000253 ***
number_of_reviews_ltm 4.616e-02  1.147e-03  40.256 < 2e-16 ***
instant_bookable1 -1.604e-01  4.011e-02  -3.999 6.37e-05 ***
review_scores  1.661e+00  3.510e-02  47.320 < 2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 41164  on 45163  degrees of freedom
Residual deviance: 26926  on 45141  degrees of freedom
AIC: 26972

Number of Fisher Scoring iterations: 7

```

<그림4>

```

> summary(mod3) # AIC: 26984

Call:
glm(formula = host_is_superhost ~ description + host_since +
    host_about + host_response_time + host_response_rate + host_total_listings_count +
    host_has_profile_pic + room_type + accommodates + bathrooms_text +
    amenities + price + minimum_nights + number_of_reviews_ltm +
    instant_bookable + review_scores, family = binomial(link = "logit"),
    data = london)

Coefficients:
              Estimate Std. Error z value Pr(>|z|)
(Intercept) -4.840e+01  9.264e-01 -52.251 < 2e-16 ***
description  3.348e-03  5.401e-04   6.199 5.67e-10 ***
host_since   1.254e-04  1.404e-05   8.936 < 2e-16 ***
host_about   4.890e-03  5.498e-04   8.895 < 2e-16 ***
host_response_timeNoInfo  6.883e-01  2.773e-01   2.482 0.01305 *
host_response_timewithin a day -7.408e-01  3.384e-01  -2.189 0.02859 *
host_response_timewithin a few hours -4.480e-01  3.455e-01  -1.297 0.19474
host_response_timewithin an hour -1.596e-01  3.467e-01  -0.460 0.64539
host_response_rate  3.151e-02  3.043e-03  10.356 < 2e-16 ***
host_total_listings_count -5.837e-03  3.946e-03  -1.479 0.13907
host_has_profile_pic1  2.954e-01  1.159e-01   2.548 0.01083 *
room_typeHotel room -1.650e+00  8.053e-01  -2.049 0.04042 *
room_typePrivate room  5.023e-01  4.681e-02  10.730 < 2e-16 ***
room_typeShared room -6.519e-01  3.622e-01  -1.800 0.07192 .
accommodates -1.283e-01  1.493e-02  -8.594 < 2e-16 ***
bathrooms_text  5.205e-02  1.882e-02   2.766 0.00567 **
amenities      2.253e-02  1.139e-03  19.768 < 2e-16 ***
price          2.708e-01  3.681e-02   7.355 1.91e-13 ***
minimum_nights  9.238e-02  1.283e-02   7.198 6.13e-13 ***
number_of_reviews_ltm  4.618e-02  1.146e-03  40.307 < 2e-16 ***
instant_bookable1 -1.599e-01  4.010e-02  -3.987 6.70e-05 ***
review_scores   1.651e+00  3.493e-02  47.281 < 2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 41164  on 45163  degrees of freedom
Residual deviance: 26940  on 45142  degrees of freedom
AIC: 26984

Number of Fisher Scoring iterations: 7

```

<그림5>