

Linear regression of Brooklyn Housing Data

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```
# Brooklyn housing data - rolling sales (Doing Data Science)
#
library(plyr)
require(gdata)

## Loading required package: gdata
## gdata: read.xls support for 'XLS' (Excel 97-2004) files ENABLED.
##
## gdata: read.xls support for 'XLSX' (Excel 2007+) files ENABLED.
##
## Attaching package: 'gdata'
##
## The following object is masked from 'package:stats':
##
##     nobs
##
## The following object is masked from 'package:utils':
##
##     object.size

bk <- read.xls("/Users/Jon/Desktop/R-Projects/Brooklyn/rollingsales_brooklyn.xls",pattern="BOROUGH")
#
bk$SALE.PRICE.N <- as.numeric(gsub("[^[:digit:]]", "", bk$SALE.PRICE))
# count using plyr package,
# see http://www.inside-r.org/packages/cran/plyr/docs/count
count(is.na(bk$SALE.PRICE.N))

##           x freq
## 1 FALSE 23373

# convert to lower case using chartr package,
# see http://www.inside-r.org/r-doc/base/tolower
names(bk) <- tolower(names(bk))

## clean/format the data with regular expressions
bk$gross.sqft <- as.numeric(gsub("[^[:digit:]]", "", bk$gross.square.feet))
bk$land.sqft <- as.numeric(gsub("[^[:digit:]]", "", bk$land.square.feet))

bk$sale.date <- as.Date(bk$sale.date)
bk$year.built <- as.numeric(as.character(bk$year.built))
#
## keep only the actual sales
bk.sale <- bk[bk$sale.price.n!=0,]

# look at 1,2, and 3-family homes
bk.homes <- bk.sale[which(grepl("FAMILY", bk.sale$building.class.category)),]
```

```

# To sort a data frame in R, use the order( ) function.
# By default, sorting is ASCENDING, http://www.statmethods.net/management/sorting.html
# bk.homes[which(bk.homes$sale.price.n<100000),]
# bk.homes[order(bk.homes[which(bk.homes$sale.price.n<100000),]$sale.price.n),]

## remove outliers that seem like they weren't actual sales
bk.homes$outliers <- (log(bk.homes$sale.price.n) <=5) + 0
bk.homes <- bk.homes[which(bk.homes$outliers==0),]

# linear regression
# model1 <- lm(log(sale.price.n) ~ log(gross.sqft),data=bk.homes)
# didnt work, some entries have zero sqft
#bk.homes[which(bk.homes$gross.sqft==0),]

bk.homes <- bk.homes[which(bk.homes$gross.sqft>0 &
                           bk.homes$land.sqft>0),]

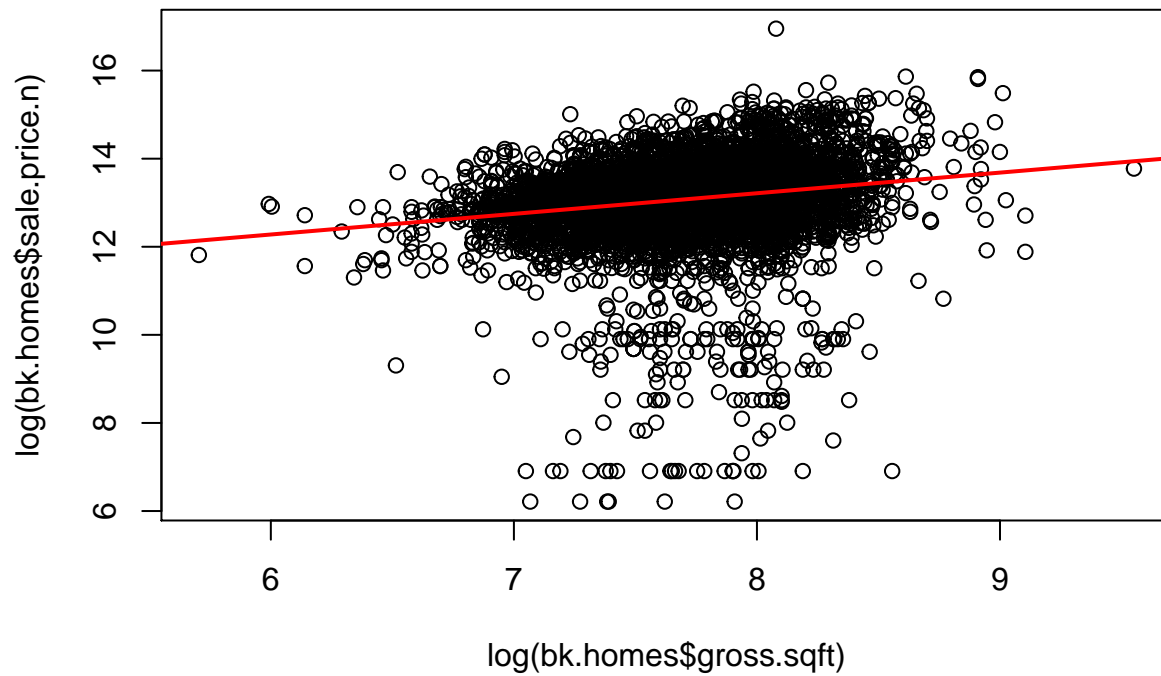
model1 <- lm(log(sale.price.n) ~ log(gross.sqft),data=bk.homes)
summary(model1)

##
## Call:
## lm(formula = log(sale.price.n) ~ log(gross.sqft), data = bk.homes)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -6.957 -0.293  0.141  0.470  3.700
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    9.4672     0.2342   40.4    <2e-16 ***
## log(gross.sqft)  0.4684     0.0303   15.4    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.937 on 6397 degrees of freedom
## Multiple R-squared:  0.036, Adjusted R-squared:  0.0358
## F-statistic: 239 on 1 and 6397 DF, p-value: <2e-16

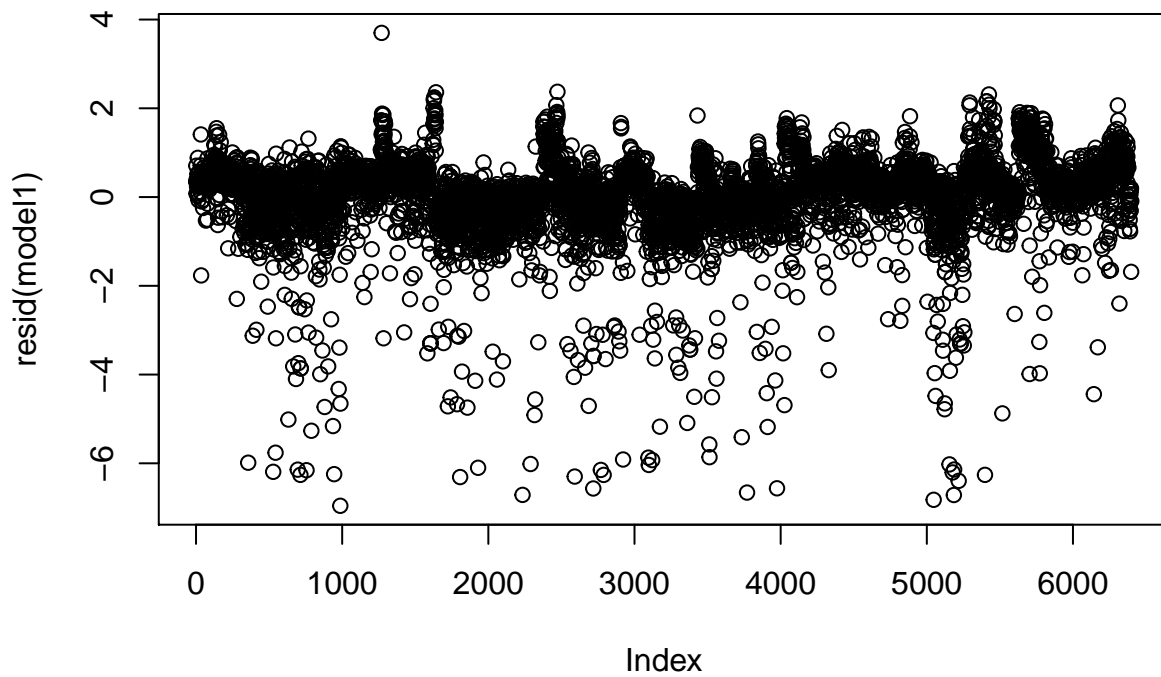
# Residual standard error: 0.9366 on 6397 degrees of freedom
# Multiple R-squared:  0.03595, Adjusted R-squared:  0.0358
# F-statistic: 238.6 on 1 and 6397 DF, p-value: < 2.2e-16

plot(log(bk.homes$gross.sqft),log(bk.homes$sale.price.n))
# overlay the fit
abline(model1,col="red",lwd=2)

```



```
#look at the residuals
plot(resid(model1))
```



```
model2 <- lm(log(sale.price.n) ~ log(gross.sqft) +
             log(land.sqft) + factor(neighborhood), data=bk.homes)
summary(model2)
```

```
##
## Call:
```

```
## lm(formula = log(sale.price.n) ~ log(gross.sqft) + log(land.sqft) +
##     factor(neighborhood), data = bk.homes)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -6.694 -0.126  0.118  0.353  2.610
##
## Coefficients:
##                                     Estimate Std. Error t value
## (Intercept)                       7.97615    0.31524   25.30
## log(gross.sqft)                   0.34665    0.03020   11.48
## log(land.sqft)                    0.35642    0.03473   10.26
## factor(neighborhood)BAY RIDGE      0.10100    0.09732    1.04
## factor(neighborhood)BEDFORD STUYVESANT -0.56322    0.08819   -6.39
## factor(neighborhood)BENSONHURST   -0.00767    0.09875   -0.08
## factor(neighborhood)BERGEN BEACH  -0.20248    0.13688   -1.48
## factor(neighborhood)BOERUM HILL    1.01065    0.16170    6.25
## factor(neighborhood)BOROUGH PARK   0.01424    0.09418    0.15
## factor(neighborhood)BRIGHTON BEACH -0.85194    0.16746   -5.09
## factor(neighborhood)BROOKLYN HEIGHTS 1.60268    0.19721    8.13
## factor(neighborhood)BROWNSVILLE  -0.82231    0.13112   -6.27
## factor(neighborhood)BUSH TERMINAL  -0.16408    0.33566   -0.49
## factor(neighborhood)BUSHWICK       -0.74426    0.09242   -8.05
## factor(neighborhood)CANARSIE       -0.67281    0.09475   -7.10
## factor(neighborhood)CARROLL GARDENS  0.96632    0.16023    6.03
## factor(neighborhood)CLINTON HILL    0.39240    0.14368    2.73
## factor(neighborhood)COBBLE HILL     1.27940    0.20132    6.36
## factor(neighborhood)COBBLE HILL-WEST 0.50480    0.40723    1.24
## factor(neighborhood)CONY ISLAND    -0.52517    0.21041   -2.50
## factor(neighborhood)CROWN HEIGHTS  -0.54781    0.09717   -5.64
## factor(neighborhood)CYPRESS HILLS  -0.83112    0.10225   -8.13
## factor(neighborhood)DOWNTOWN-FULTON FERRY 0.43171    0.80158    0.54
## factor(neighborhood)DOWNTOWN-FULTON MALL 0.28408    0.46789    0.61
## factor(neighborhood)DOWNTOWN-METROTECH 1.38479    0.80167    1.73
## factor(neighborhood)DYKER HEIGHTS   -0.02038    0.10113   -0.20
## factor(neighborhood)EAST NEW YORK  -0.99546    0.09260  -10.75
## factor(neighborhood)FLATBUSH-CENTRAL -0.49737    0.10646   -4.67
## factor(neighborhood)FLATBUSH-EAST   -0.57443    0.09570   -6.00
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN -0.20914    0.13166   -1.59
## factor(neighborhood)FLATBUSH-NORTH  -0.84544    0.12233   -6.91
## factor(neighborhood)FLATLANDS      -0.84303    0.13367   -6.31
## factor(neighborhood)FORT GREENE     0.79021    0.14862    5.32
## factor(neighborhood)GERRITSEN BEACH -0.70758    0.14055   -5.03
## factor(neighborhood)GOWANUS         0.56581    0.14708    3.85
## factor(neighborhood)GRAVESEND      -0.07558    0.09883   -0.76
## factor(neighborhood)GREENPOINT      0.19707    0.12862    1.53
## factor(neighborhood)KENSINGTON       0.05662    0.15943    0.36
## factor(neighborhood)MADISON         -0.05285    0.10834   -0.49
## factor(neighborhood)MANHATTAN BEACH  0.04416    0.16342    0.27
## factor(neighborhood)MARINE PARK     -0.24065    0.10267   -2.34
## factor(neighborhood)MIDWOOD         -0.07385    0.10189   -0.72
## factor(neighborhood)MILL BASIN      -0.17516    0.13683   -1.28
## factor(neighborhood)NAVY YARD       -0.16810    0.26579   -0.63
## factor(neighborhood)OCEAN HILL     -1.07886    0.09894  -10.90
```

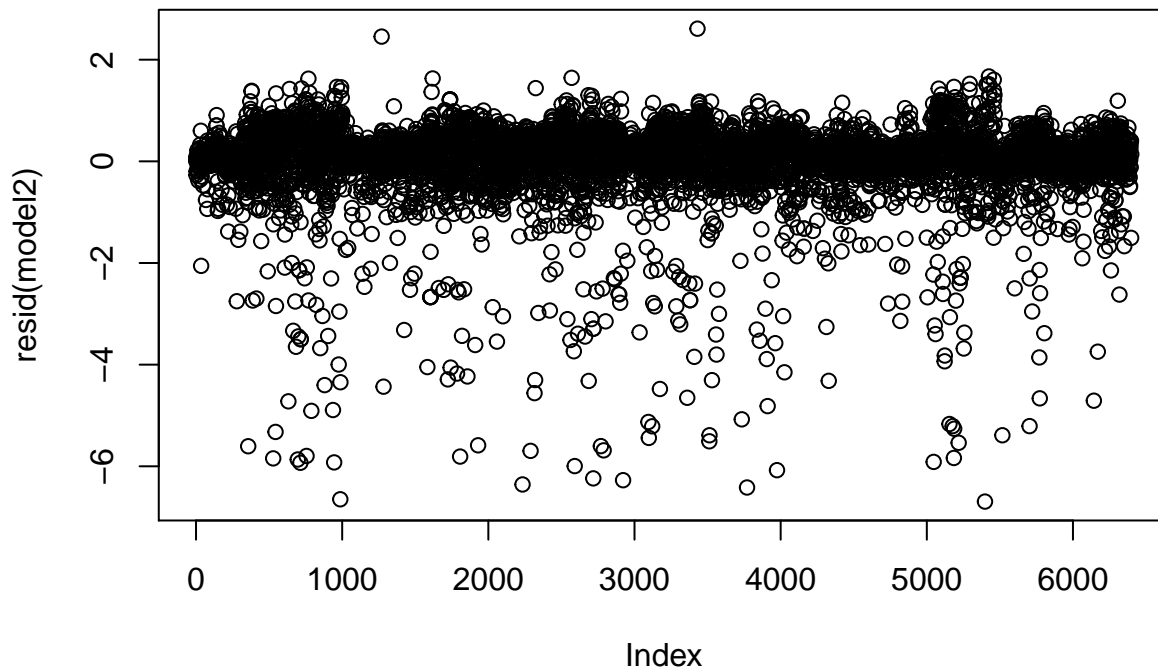
## factor(neighborhood)OCEAN PARKWAY-NORTH	0.01028	0.10405	0.10
## factor(neighborhood)OCEAN PARKWAY-SOUTH	0.06963	0.10893	0.64
## factor(neighborhood)OLD MILL BASIN	-0.43325	0.11547	-3.75
## factor(neighborhood)PARK SLOPE	0.97339	0.11448	8.50
## factor(neighborhood)PARK SLOPE SOUTH	0.43927	0.13811	3.18
## factor(neighborhood)PROSPECT HEIGHTS	0.57327	0.16761	3.42
## factor(neighborhood)RED HOOK	0.19745	0.21580	0.91
## factor(neighborhood)SEAGATE	-0.50054	0.29395	-1.70
## factor(neighborhood)SHEEPSHEAD BAY	-0.18388	0.10276	-1.79
## factor(neighborhood)SPRING CREEK	-0.48432	0.15309	-3.16
## factor(neighborhood)SUNSET PARK	0.04157	0.10050	0.41
## factor(neighborhood)WILLIAMSBURG-CENTRAL	-0.20456	0.21044	-0.97
## factor(neighborhood)WILLIAMSBURG-EAST	0.33848	0.13775	2.46
## factor(neighborhood)WILLIAMSBURG-NORTH	0.80646	0.21572	3.74
## factor(neighborhood)WILLIAMSBURG-SOUTH	0.10260	0.33588	0.31
## factor(neighborhood)WINDSOR TERRACE	0.43287	0.13769	3.14
## factor(neighborhood)WYCKOFF HEIGHTS	-0.42809	0.18244	-2.35
##	Pr(> t)		
## (Intercept)	< 2e-16	***	
## log(gross.sqft)	< 2e-16	***	
## log(land.sqft)	< 2e-16	***	
## factor(neighborhood)BAY RIDGE	0.29942		
## factor(neighborhood)BEDFORD STUYVESANT	1.8e-10	***	
## factor(neighborhood)BENSONHURST	0.93812		
## factor(neighborhood)BERGEN BEACH	0.13913		
## factor(neighborhood)BOERUM HILL	4.4e-10	***	
## factor(neighborhood)BOROUGH PARK	0.87982		
## factor(neighborhood)BRIGHTON BEACH	3.7e-07	***	
## factor(neighborhood)BROOKLYN HEIGHTS	5.3e-16	***	
## factor(neighborhood)BROWNSVILLE	3.8e-10	***	
## factor(neighborhood)BUSH TERMINAL	0.62499		
## factor(neighborhood)BUSHWICK	9.6e-16	***	
## factor(neighborhood)CANARSIE	1.4e-12	***	
## factor(neighborhood)CARROLL GARDENS	1.7e-09	***	
## factor(neighborhood)CLINTON HILL	0.00633	**	
## factor(neighborhood)COBBLE HILL	2.2e-10	***	
## factor(neighborhood)COBBLE HILL-WEST	0.21517		
## factor(neighborhood)CONY ISLAND	0.01259	*	
## factor(neighborhood)CROWN HEIGHTS	1.8e-08	***	
## factor(neighborhood)CYPRESS HILLS	5.2e-16	***	
## factor(neighborhood)DOWNTOWN-FULTON FERRY	0.59020		
## factor(neighborhood)DOWNTOWN-FULTON MALL	0.54377		
## factor(neighborhood)DOWNTOWN-METROTECH	0.08415	.	
## factor(neighborhood)DYKER HEIGHTS	0.84030		
## factor(neighborhood)EAST NEW YORK	< 2e-16	***	
## factor(neighborhood)FLATBUSH-CENTRAL	3.0e-06	***	
## factor(neighborhood)FLATBUSH-EAST	2.1e-09	***	
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	0.11221		
## factor(neighborhood)FLATBUSH-NORTH	5.3e-12	***	
## factor(neighborhood)FLATLANDS	3.0e-10	***	
## factor(neighborhood)FORT GREENE	1.1e-07	***	
## factor(neighborhood)GERRITSEN BEACH	4.9e-07	***	
## factor(neighborhood)GOWANUS	0.00012	***	
## factor(neighborhood)GRAVESEND	0.44442		

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## factor(neighborhood)GREENPOINT          0.12552
## factor(neighborhood)KENSINGTON           0.72250
## factor(neighborhood)MADISON              0.62572
## factor(neighborhood)MANHATTAN BEACH      0.78697
## factor(neighborhood)MARINE PARK          0.01911 *
## factor(neighborhood)MIDWOOD              0.46864
## factor(neighborhood)MILL BASIN           0.20053
## factor(neighborhood)NAVY YARD            0.52713
## factor(neighborhood)OCEAN HILL           < 2e-16 ***
## factor(neighborhood)OCEAN PARKWAY-NORTH  0.92129
## factor(neighborhood)OCEAN PARKWAY-SOUTH  0.52268
## factor(neighborhood)OLD MILL BASIN       0.00018 ***
## factor(neighborhood)PARK SLOPE           < 2e-16 ***
## factor(neighborhood)PARK SLOPE SOUTH     0.00148 **
## factor(neighborhood)PROSPECT HEIGHTS     0.00063 ***
## factor(neighborhood)RED HOOK             0.36024
## factor(neighborhood)SEAGATE              0.08865 .
## factor(neighborhood)SHEEPSHEAD BAY       0.07359 .
## factor(neighborhood)SPRING CREEK         0.00157 **
## factor(neighborhood)SUNSET PARK          0.67914
## factor(neighborhood)WILLIAMSBURG-CENTRAL  0.33106
## factor(neighborhood)WILLIAMSBURG-EAST    0.01403 *
## factor(neighborhood)WILLIAMSBURG-NORTH   0.00019 ***
## factor(neighborhood)WILLIAMSBURG-SOUTH   0.76002
## factor(neighborhood)WINDSOR TERRACE      0.00167 **
## factor(neighborhood)WYCKOFF HEIGHTS      0.01898 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.797 on 6337 degrees of freedom
## Multiple R-squared:  0.308, Adjusted R-squared:  0.301
## F-statistic: 46.2 on 61 and 6337 DF, p-value: <2e-16

```

```
plot(resid(model2))
```



```
# Residual standard error: 0.7973 on 6337 degrees of freedom
# Multiple R-squared:  0.3078, Adjusted R-squared:  0.3012
# F-statistic: 46.2 on 61 and 6337 DF, p-value: < 2.2e-16
```

```
# leave out intercept for easier interpretation
model2a <- lm(log(sale.price.n) ~ 0 + log(gross.sqft) +
              log(land.sqft) + factor(neighborhood), data=bk.homes)
summary(model2a)
```

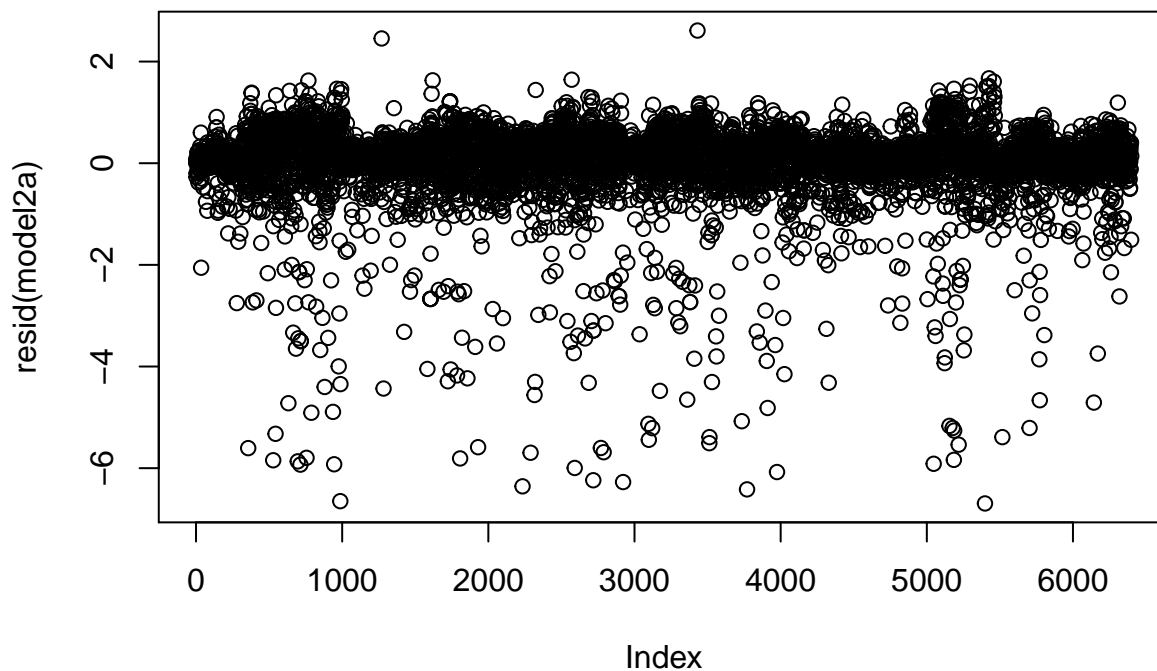
```
##
## Call:
## lm(formula = log(sale.price.n) ~ 0 + log(gross.sqft) + log(land.sqft) +
##     factor(neighborhood), data = bk.homes)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -6.694 -0.126  0.118  0.353  2.610
##
## Coefficients:
##                                Estimate Std. Error t value
## log(gross.sqft)                0.3467    0.0302   11.48
## log(land.sqft)                 0.3564    0.0347   10.26
## factor(neighborhood)BATH BEACH    7.9762    0.3152   25.30
## factor(neighborhood)BAY RIDGE     8.0772    0.3071   26.30
## factor(neighborhood)BEDFORD STUYVESANT 7.4129    0.3021   24.53
## factor(neighborhood)BENSONHURST   7.9685    0.3084   25.84
## factor(neighborhood)BERGEN BEACH   7.7737    0.3278   23.71
## factor(neighborhood)BOERUM HILL    8.9868    0.3320   27.07
## factor(neighborhood)BOROUGH PARK   7.9904    0.3079   25.96
## factor(neighborhood)BRIGHTON BEACH 7.1242    0.3260   21.85
## factor(neighborhood)BROOKLYN HEIGHTS 9.5788    0.3520   27.22
## factor(neighborhood)BROWNSVILLE  7.1538    0.3142   22.77
```

## factor(neighborhood)BUSH TERMINAL	7.8121	0.4424	17.66
## factor(neighborhood)BUSHWICK	7.2319	0.3048	23.73
## factor(neighborhood)CANARSIE	7.3033	0.3033	24.08
## factor(neighborhood)CARROLL GARDENS	8.9425	0.3280	27.27
## factor(neighborhood)CLINTON HILL	8.3685	0.3236	25.86
## factor(neighborhood)COBBLE HILL	9.2555	0.3461	26.74
## factor(neighborhood)COBBLE HILL-WEST	8.4810	0.4967	17.07
## factor(neighborhood)CONY ISLAND	7.4510	0.3568	20.88
## factor(neighborhood)CROWN HEIGHTS	7.4283	0.3080	24.11
## factor(neighborhood)CYPRESS HILLS	7.1450	0.3072	23.26
## factor(neighborhood)DOWNTOWN-FULTON FERRY	8.4079	0.8504	9.89
## factor(neighborhood)DOWNTOWN-FULTON MALL	8.2602	0.5539	14.91
## factor(neighborhood)DOWNTOWN-METROTECH	9.3609	0.8486	11.03
## factor(neighborhood)DYKER HEIGHTS	7.9558	0.3081	25.82
## factor(neighborhood)EAST NEW YORK	6.9807	0.3019	23.12
## factor(neighborhood)FLATBUSH-CENTRAL	7.4788	0.3177	23.54
## factor(neighborhood)FLATBUSH-EAST	7.4017	0.3032	24.41
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	7.7670	0.3221	24.12
## factor(neighborhood)FLATBUSH-NORTH	7.1307	0.3139	22.72
## factor(neighborhood)FLATLANDS	7.1331	0.3194	22.33
## factor(neighborhood)FORT GREENE	8.7664	0.3259	26.90
## factor(neighborhood)GERRITSEN BEACH	7.2686	0.3104	23.42
## factor(neighborhood)GOWANUS	8.5420	0.3170	26.95
## factor(neighborhood)GRAVESEND	7.9006	0.3051	25.89
## factor(neighborhood)GREENPOINT	8.1732	0.3168	25.80
## factor(neighborhood)KENSINGTON	8.0328	0.3297	24.36
## factor(neighborhood)MADISON	7.9233	0.3114	25.44
## factor(neighborhood)MANHATTAN BEACH	8.0203	0.3435	23.35
## factor(neighborhood)MARINE PARK	7.7355	0.3021	25.60
## factor(neighborhood)MIDWOOD	7.9023	0.3135	25.21
## factor(neighborhood)MILL BASIN	7.8010	0.3349	23.30
## factor(neighborhood)NAVY YARD	7.8081	0.3866	20.20
## factor(neighborhood)OCEAN HILL	6.8973	0.3032	22.75
## factor(neighborhood)OCEAN PARKWAY-NORTH	7.9864	0.3134	25.48
## factor(neighborhood)OCEAN PARKWAY-SOUTH	8.0458	0.3150	25.55
## factor(neighborhood)OLD MILL BASIN	7.5429	0.3054	24.70
## factor(neighborhood)PARK SLOPE	8.9495	0.3112	28.76
## factor(neighborhood)PARK SLOPE SOUTH	8.4154	0.3138	26.82
## factor(neighborhood)PROSPECT HEIGHTS	8.5494	0.3360	25.45
## factor(neighborhood)RED HOOK	8.1736	0.3548	23.04
## factor(neighborhood)SEAGATE	7.4756	0.4236	17.65
## factor(neighborhood)SHEEPSHEAD BAY	7.7923	0.3073	25.36
## factor(neighborhood)SPRING CREEK	7.4918	0.3272	22.90
## factor(neighborhood)SUNSET PARK	8.0177	0.3055	26.25
## factor(neighborhood)WILLIAMSBURG-CENTRAL	7.7716	0.3587	21.67
## factor(neighborhood)WILLIAMSBURG-EAST	8.3146	0.3174	26.20
## factor(neighborhood)WILLIAMSBURG-NORTH	8.7826	0.3590	24.46
## factor(neighborhood)WILLIAMSBURG-SOUTH	8.0788	0.4389	18.41
## factor(neighborhood)WINDSOR TERRACE	8.4090	0.3186	26.40
## factor(neighborhood)WYCKOFF HEIGHTS	7.5481	0.3447	21.90
##	Pr(> t)		
## log(gross.sqft)	<2e-16 ***		
## log(land.sqft)	<2e-16 ***		
## factor(neighborhood)BATH BEACH	<2e-16 ***		

## factor(neighborhood)BAY RIDGE	<2e-16 ***
## factor(neighborhood)BEDFORD STUYVESANT	<2e-16 ***
## factor(neighborhood)BENSONHURST	<2e-16 ***
## factor(neighborhood)BERGEN BEACH	<2e-16 ***
## factor(neighborhood)BOERUM HILL	<2e-16 ***
## factor(neighborhood)BOROUGH PARK	<2e-16 ***
## factor(neighborhood)BRIGHTON BEACH	<2e-16 ***
## factor(neighborhood)BROOKLYN HEIGHTS	<2e-16 ***
## factor(neighborhood)BROWNSVILLE	<2e-16 ***
## factor(neighborhood)BUSH TERMINAL	<2e-16 ***
## factor(neighborhood)BUSHWICK	<2e-16 ***
## factor(neighborhood)CANARSIE	<2e-16 ***
## factor(neighborhood)CARROLL GARDENS	<2e-16 ***
## factor(neighborhood)CLINTON HILL	<2e-16 ***
## factor(neighborhood)COBBLE HILL	<2e-16 ***
## factor(neighborhood)COBBLE HILL-WEST	<2e-16 ***
## factor(neighborhood)CONEY ISLAND	<2e-16 ***
## factor(neighborhood)CROWN HEIGHTS	<2e-16 ***
## factor(neighborhood)CYPRESS HILLS	<2e-16 ***
## factor(neighborhood)DOWNTOWN-FULTON FERRY	<2e-16 ***
## factor(neighborhood)DOWNTOWN-FULTON MALL	<2e-16 ***
## factor(neighborhood)DOWNTOWN-METROTECH	<2e-16 ***
## factor(neighborhood)DYKER HEIGHTS	<2e-16 ***
## factor(neighborhood)EAST NEW YORK	<2e-16 ***
## factor(neighborhood)FLATBUSH-CENTRAL	<2e-16 ***
## factor(neighborhood)FLATBUSH-EAST	<2e-16 ***
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	<2e-16 ***
## factor(neighborhood)FLATBUSH-NORTH	<2e-16 ***
## factor(neighborhood)FLATLANDS	<2e-16 ***
## factor(neighborhood)FORT GREENE	<2e-16 ***
## factor(neighborhood)GERRITSEN BEACH	<2e-16 ***
## factor(neighborhood)GOWANUS	<2e-16 ***
## factor(neighborhood)GRAVESEND	<2e-16 ***
## factor(neighborhood)GREENPOINT	<2e-16 ***
## factor(neighborhood)KENSINGTON	<2e-16 ***
## factor(neighborhood)MADISON	<2e-16 ***
## factor(neighborhood)MANHATTAN BEACH	<2e-16 ***
## factor(neighborhood)MARINE PARK	<2e-16 ***
## factor(neighborhood)MIDWOOD	<2e-16 ***
## factor(neighborhood)MILL BASIN	<2e-16 ***
## factor(neighborhood)NAVY YARD	<2e-16 ***
## factor(neighborhood)OCEAN HILL	<2e-16 ***
## factor(neighborhood)OCEAN PARKWAY-NORTH	<2e-16 ***
## factor(neighborhood)OCEAN PARKWAY-SOUTH	<2e-16 ***
## factor(neighborhood)OLD MILL BASIN	<2e-16 ***
## factor(neighborhood)PARK SLOPE	<2e-16 ***
## factor(neighborhood)PARK SLOPE SOUTH	<2e-16 ***
## factor(neighborhood)PROSPECT HEIGHTS	<2e-16 ***
## factor(neighborhood)RED HOOK	<2e-16 ***
## factor(neighborhood)SEAGATE	<2e-16 ***
## factor(neighborhood)SHEEPSHEAD BAY	<2e-16 ***
## factor(neighborhood)SPRING CREEK	<2e-16 ***
## factor(neighborhood)SUNSET PARK	<2e-16 ***
## factor(neighborhood)WILLIAMSBURG-CENTRAL	<2e-16 ***

```
## factor(neighborhood)WILLIAMSBURG-EAST          <2e-16 ***
## factor(neighborhood)WILLIAMSBURG-NORTH          <2e-16 ***
## factor(neighborhood)WILLIAMSBURG-SOUTH          <2e-16 ***
## factor(neighborhood)WINDSOR TERRACE             <2e-16 ***
## factor(neighborhood)WYCKOFF HEIGHTS             <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.797 on 6337 degrees of freedom
## Multiple R-squared:  0.996, Adjusted R-squared:  0.996
## F-statistic: 2.78e+04 on 62 and 6337 DF, p-value: <2e-16
```

```
plot(resid(model2a))
```



```
# Residual standard error: 0.7973 on 6337 degrees of freedom
# Multiple R-squared:  0.9963, Adjusted R-squared:  0.9963
# F-statistic: 2.782e+04 on 62 and 6337 DF, p-value: < 2.2e-16
```

```
# add building type for model3
model3 <- lm(log(sale.price.n) ~ log(gross.sqft) +
              log(land.sqft) + factor(neighborhood) +
              factor(building.class.category), data=bk.homes)
summary(model3)
```

```
##
## Call:
## lm(formula = log(sale.price.n) ~ log(gross.sqft) + log(land.sqft) +
##     factor(neighborhood) + factor(building.class.category), data = bk.homes)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
```

```

## -6.600 -0.126  0.118  0.350  2.662
##
## Coefficients:
##
## (Intercept) 7.62e+00
## log(gross.sqft) 4.10e-01
## log(land.sqft) 3.48e-01
## factor(neighborhood)BAY RIDGE 7.53e-02
## factor(neighborhood)BEDFORD STUYVESANT -5.59e-01
## factor(neighborhood)BENSONHURST -1.41e-02
## factor(neighborhood)BERGEN BEACH -2.24e-01
## factor(neighborhood)BOERUM HILL 1.01e+00
## factor(neighborhood)BOROUGH PARK 6.25e-03
## factor(neighborhood)BRIGHTON BEACH -8.55e-01
## factor(neighborhood)BROOKLYN HEIGHTS 1.55e+00
## factor(neighborhood)BROWNSVILLE -8.34e-01
## factor(neighborhood)BUSH TERMINAL -1.50e-01
## factor(neighborhood)BUSHWICK -7.39e-01
## factor(neighborhood)CANARSIE -6.72e-01
## factor(neighborhood)CARROLL GARDENS 9.68e-01
## factor(neighborhood)CLINTON HILL 3.87e-01
## factor(neighborhood)COBBLE HILL 1.27e+00
## factor(neighborhood)COBBLE HILL-WEST 5.18e-01
## factor(neighborhood)CONY ISLAND -5.47e-01
## factor(neighborhood)CROWN HEIGHTS -5.59e-01
## factor(neighborhood)CYPRESS HILLS -8.34e-01
## factor(neighborhood)DOWNTOWN-FULTON FERRY 4.28e-01
## factor(neighborhood)DOWNTOWN-FULTON MALL 2.06e-01
## factor(neighborhood)DOWNTOWN-METROTECH 1.39e+00
## factor(neighborhood)DYKER HEIGHTS -3.72e-02
## factor(neighborhood)EAST NEW YORK -9.90e-01
## factor(neighborhood)FLATBUSH-CENTRAL -5.27e-01
## factor(neighborhood)FLATBUSH-EAST -5.92e-01
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN -2.33e-01
## factor(neighborhood)FLATBUSH-NORTH -8.51e-01
## factor(neighborhood)FLATLANDS -8.63e-01
## factor(neighborhood)FORT GREENE 7.87e-01
## factor(neighborhood)GERRITSEN BEACH -7.25e-01
## factor(neighborhood)GOWANUS 5.75e-01
## factor(neighborhood)GRAVESEND -7.99e-02
## factor(neighborhood)GREENPOINT 2.17e-01
## factor(neighborhood)KENSINGTON 5.43e-02
## factor(neighborhood)MADISON -8.39e-02
## factor(neighborhood)MANHATTAN BEACH -8.09e-05
## factor(neighborhood)MARINE PARK -2.63e-01
## factor(neighborhood)MIDWOOD -1.06e-01
## factor(neighborhood)MILL BASIN -2.14e-01
## factor(neighborhood)NAVY YARD -1.39e-01
## factor(neighborhood)OCEAN HILL -1.07e+00
## factor(neighborhood)OCEAN PARKWAY-NORTH -1.55e-02
## factor(neighborhood)OCEAN PARKWAY-SOUTH 5.29e-02
## factor(neighborhood)OLD MILL BASIN -4.48e-01
## factor(neighborhood)PARK SLOPE 9.67e-01
## factor(neighborhood)PARK SLOPE SOUTH 4.57e-01

```

## factor(neighborhood)PROSPECT HEIGHTS	5.53e-01
## factor(neighborhood)RED HOOK	1.95e-01
## factor(neighborhood)SEAGATE	-5.31e-01
## factor(neighborhood)SHEEPSHEAD BAY	-1.95e-01
## factor(neighborhood)SPRING CREEK	-5.12e-01
## factor(neighborhood)SUNSET PARK	4.45e-02
## factor(neighborhood)WILLIAMSBURG-CENTRAL	-1.97e-01
## factor(neighborhood)WILLIAMSBURG-EAST	3.42e-01
## factor(neighborhood)WILLIAMSBURG-NORTH	8.24e-01
## factor(neighborhood)WILLIAMSBURG-SOUTH	9.26e-02
## factor(neighborhood)WINDSOR TERRACE	4.27e-01
## factor(neighborhood)WYCKOFF HEIGHTS	-4.25e-01
## factor(building.class.category)02 TWO FAMILY HOMES	-5.96e-02
## factor(building.class.category)03 THREE FAMILY HOMES	-1.42e-01
##	Std. Error
## (Intercept)	3.29e-01
## log(gross.sqft)	3.49e-02
## log(land.sqft)	3.48e-02
## factor(neighborhood)BAY RIDGE	9.75e-02
## factor(neighborhood)BEDFORD STUYVESANT	8.81e-02
## factor(neighborhood)BENSONHURST	9.87e-02
## factor(neighborhood)BERGEN BEACH	1.37e-01
## factor(neighborhood)BOERUM HILL	1.62e-01
## factor(neighborhood)BOROUGH PARK	9.41e-02
## factor(neighborhood)BRIGHTON BEACH	1.67e-01
## factor(neighborhood)BROOKLYN HEIGHTS	1.98e-01
## factor(neighborhood)BROWNSVILLE	1.31e-01
## factor(neighborhood)BUSH TERMINAL	3.35e-01
## factor(neighborhood)BUSHWICK	9.23e-02
## factor(neighborhood)CANARSIE	9.47e-02
## factor(neighborhood)CARROLL GARDENS	1.60e-01
## factor(neighborhood)CLINTON HILL	1.44e-01
## factor(neighborhood)COBBLE HILL	2.01e-01
## factor(neighborhood)COBBLE HILL-WEST	4.07e-01
## factor(neighborhood)CONY ISLAND	2.10e-01
## factor(neighborhood)CROWN HEIGHTS	9.71e-02
## factor(neighborhood)CYPRESS HILLS	1.02e-01
## factor(neighborhood)DOWNTOWN-FULTON FERRY	8.01e-01
## factor(neighborhood)DOWNTOWN-FULTON MALL	4.68e-01
## factor(neighborhood)DOWNTOWN-METROTECH	8.01e-01
## factor(neighborhood)DYKER HEIGHTS	1.01e-01
## factor(neighborhood)EAST NEW YORK	9.25e-02
## factor(neighborhood)FLATBUSH-CENTRAL	1.07e-01
## factor(neighborhood)FLATBUSH-EAST	9.58e-02
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	1.32e-01
## factor(neighborhood)FLATBUSH-NORTH	1.22e-01
## factor(neighborhood)FLATLANDS	1.34e-01
## factor(neighborhood)FORT GREENE	1.48e-01
## factor(neighborhood)GERRITSEN BEACH	1.41e-01
## factor(neighborhood)GOWANUS	1.47e-01
## factor(neighborhood)GRAVESEND	9.87e-02
## factor(neighborhood)GREENPOINT	1.29e-01
## factor(neighborhood)KENSINGTON	1.59e-01
## factor(neighborhood)MADISON	1.09e-01

## factor(neighborhood)MANHATTAN BEACH	1.64e-01
## factor(neighborhood)MARINE PARK	1.03e-01
## factor(neighborhood)MIDWOOD	1.02e-01
## factor(neighborhood)MILL BASIN	1.37e-01
## factor(neighborhood)NAVY YARD	2.66e-01
## factor(neighborhood)OCEAN HILL	9.89e-02
## factor(neighborhood)OCEAN PARKWAY-NORTH	1.04e-01
## factor(neighborhood)OCEAN PARKWAY-SOUTH	1.09e-01
## factor(neighborhood)OLD MILL BASIN	1.16e-01
## factor(neighborhood)PARK SLOPE	1.14e-01
## factor(neighborhood)PARK SLOPE SOUTH	1.38e-01
## factor(neighborhood)PROSPECT HEIGHTS	1.68e-01
## factor(neighborhood)RED HOOK	2.16e-01
## factor(neighborhood)SEAGATE	2.94e-01
## factor(neighborhood)SHEEPSHEAD BAY	1.03e-01
## factor(neighborhood)SPRING CREEK	1.53e-01
## factor(neighborhood)SUNSET PARK	1.00e-01
## factor(neighborhood)WILLIAMSBURG-CENTRAL	2.10e-01
## factor(neighborhood)WILLIAMSBURG-EAST	1.38e-01
## factor(neighborhood)WILLIAMSBURG-NORTH	2.16e-01
## factor(neighborhood)WILLIAMSBURG-SOUTH	3.36e-01
## factor(neighborhood)WINDSOR TERRACE	1.38e-01
## factor(neighborhood)WYCKOFF HEIGHTS	1.82e-01
## factor(building.class.category)02 TWO FAMILY HOMES	2.74e-02
## factor(building.class.category)03 THREE FAMILY HOMES	3.80e-02
##	t value
## (Intercept)	23.15
## log(gross.sqft)	11.77
## log(land.sqft)	9.97
## factor(neighborhood)BAY RIDGE	0.77
## factor(neighborhood)BEDFORD STUYVESANT	-6.34
## factor(neighborhood)BENSONHURST	-0.14
## factor(neighborhood)BERGEN BEACH	-1.64
## factor(neighborhood)BOERUM HILL	6.27
## factor(neighborhood)BOROUGH PARK	0.07
## factor(neighborhood)BRIGHTON BEACH	-5.11
## factor(neighborhood)BROOKLYN HEIGHTS	7.85
## factor(neighborhood)BROWNSVILLE	-6.36
## factor(neighborhood)BUSH TERMINAL	-0.45
## factor(neighborhood)BUSHWICK	-8.00
## factor(neighborhood)CANARSIE	-7.10
## factor(neighborhood)CARROLL GARDENS	6.04
## factor(neighborhood)CLINTON HILL	2.69
## factor(neighborhood)COBBLE HILL	6.32
## factor(neighborhood)COBBLE HILL-WEST	1.27
## factor(neighborhood)CONY ISLAND	-2.60
## factor(neighborhood)CROWN HEIGHTS	-5.76
## factor(neighborhood)CYPRESS HILLS	-8.16
## factor(neighborhood)DOWNTOWN-FULTON FERRY	0.53
## factor(neighborhood)DOWNTOWN-FULTON MALL	0.44
## factor(neighborhood)DOWNTOWN-METROTECH	1.73
## factor(neighborhood)DYKER HEIGHTS	-0.37
## factor(neighborhood)EAST NEW YORK	-10.70
## factor(neighborhood)FLATBUSH-CENTRAL	-4.94

## factor(neighborhood)FLATBUSH-EAST	-6.18
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	-1.77
## factor(neighborhood)FLATBUSH-NORTH	-6.96
## factor(neighborhood)FLATLANDS	-6.45
## factor(neighborhood)FORT GREENE	5.30
## factor(neighborhood)GERRITSEN BEACH	-5.15
## factor(neighborhood)GOWANUS	3.91
## factor(neighborhood)GRAVESEND	-0.81
## factor(neighborhood)GREENPOINT	1.69
## factor(neighborhood)KENSINGTON	0.34
## factor(neighborhood)MADISON	-0.77
## factor(neighborhood)MANHATTAN BEACH	0.00
## factor(neighborhood)MARINE PARK	-2.56
## factor(neighborhood)MIDWOOD	-1.04
## factor(neighborhood)MILL BASIN	-1.56
## factor(neighborhood)NAVY YARD	-0.52
## factor(neighborhood)OCEAN HILL	-10.84
## factor(neighborhood)OCEAN PARKWAY-NORTH	-0.15
## factor(neighborhood)OCEAN PARKWAY-SOUTH	0.49
## factor(neighborhood)OLD MILL BASIN	-3.88
## factor(neighborhood)PARK SLOPE	8.45
## factor(neighborhood)PARK SLOPE SOUTH	3.31
## factor(neighborhood)PROSPECT HEIGHTS	3.30
## factor(neighborhood)RED HOOK	0.90
## factor(neighborhood)SEAGATE	-1.81
## factor(neighborhood)SHEEPSHEAD BAY	-1.90
## factor(neighborhood)SPRING CREEK	-3.34
## factor(neighborhood)SUNSET PARK	0.44
## factor(neighborhood)WILLIAMSBURG-CENTRAL	-0.94
## factor(neighborhood)WILLIAMSBURG-EAST	2.48
## factor(neighborhood)WILLIAMSBURG-NORTH	3.82
## factor(neighborhood)WILLIAMSBURG-SOUTH	0.28
## factor(neighborhood)WINDSOR TERRACE	3.10
## factor(neighborhood)WYCKOFF HEIGHTS	-2.33
## factor(building.class.category)02 TWO FAMILY HOMES	-2.18
## factor(building.class.category)03 THREE FAMILY HOMES	-3.73
##	Pr(> t)
## (Intercept)	< 2e-16
## log(gross.sqft)	< 2e-16
## log(land.sqft)	< 2e-16
## factor(neighborhood)BAY RIDGE	0.43981
## factor(neighborhood)BEDFORD STUYVESANT	2.4e-10
## factor(neighborhood)BENSONHURST	0.88649
## factor(neighborhood)BERGEN BEACH	0.10162
## factor(neighborhood)BOERUM HILL	3.9e-10
## factor(neighborhood)BOROUGH PARK	0.94704
## factor(neighborhood)BRIGHTON BEACH	3.4e-07
## factor(neighborhood)BROOKLYN HEIGHTS	4.7e-15
## factor(neighborhood)BROWNSVILLE	2.1e-10
## factor(neighborhood)BUSH TERMINAL	0.65459
## factor(neighborhood)BUSHWICK	1.4e-15
## factor(neighborhood)CANARSIE	1.4e-12
## factor(neighborhood)CARROLL GARDENS	1.6e-09
## factor(neighborhood)CLINTON HILL	0.00708

## factor(neighborhood)COBBLE HILL	2.9e-10
## factor(neighborhood)COBBLE HILL-WEST	0.20296
## factor(neighborhood)CONY ISLAND	0.00938
## factor(neighborhood)CROWN HEIGHTS	8.8e-09
## factor(neighborhood)CYPRESS HILLS	3.9e-16
## factor(neighborhood)DOWNTOWN-FULTON FERRY	0.59336
## factor(neighborhood)DOWNTOWN-FULTON MALL	0.65969
## factor(neighborhood)DOWNTOWN-METROTECH	0.08351
## factor(neighborhood)DYKER HEIGHTS	0.71307
## factor(neighborhood)EAST NEW YORK	< 2e-16
## factor(neighborhood)FLATBUSH-CENTRAL	8.1e-07
## factor(neighborhood)FLATBUSH-EAST	6.7e-10
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	0.07689
## factor(neighborhood)FLATBUSH-NORTH	3.8e-12
## factor(neighborhood)FLATLANDS	1.2e-10
## factor(neighborhood)FORT GREENE	1.2e-07
## factor(neighborhood)GERRITSEN BEACH	2.6e-07
## factor(neighborhood)GOWANUS	9.2e-05
## factor(neighborhood)GRAVESEND	0.41827
## factor(neighborhood)GREENPOINT	0.09175
## factor(neighborhood)KENSINGTON	0.73313
## factor(neighborhood)MADISON	0.44041
## factor(neighborhood)MANHATTAN BEACH	0.99961
## factor(neighborhood)MARINE PARK	0.01056
## factor(neighborhood)MIDWOOD	0.30032
## factor(neighborhood)MILL BASIN	0.11896
## factor(neighborhood)NAVY YARD	0.60185
## factor(neighborhood)OCEAN HILL	< 2e-16
## factor(neighborhood)OCEAN PARKWAY-NORTH	0.88146
## factor(neighborhood)OCEAN PARKWAY-SOUTH	0.62699
## factor(neighborhood)OLD MILL BASIN	0.00011
## factor(neighborhood)PARK SLOPE	< 2e-16
## factor(neighborhood)PARK SLOPE SOUTH	0.00095
## factor(neighborhood)PROSPECT HEIGHTS	0.00096
## factor(neighborhood)RED HOOK	0.36606
## factor(neighborhood)SEAGATE	0.07078
## factor(neighborhood)SHEEPSHEAD BAY	0.05738
## factor(neighborhood)SPRING CREEK	0.00083
## factor(neighborhood)SUNSET PARK	0.65805
## factor(neighborhood)WILLIAMSBURG-CENTRAL	0.34971
## factor(neighborhood)WILLIAMSBURG-EAST	0.01304
## factor(neighborhood)WILLIAMSBURG-NORTH	0.00013
## factor(neighborhood)WILLIAMSBURG-SOUTH	0.78270
## factor(neighborhood)WINDSOR TERRACE	0.00193
## factor(neighborhood)WYCKOFF HEIGHTS	0.01971
## factor(building.class.category)02 TWO FAMILY HOMES	0.02945
## factor(building.class.category)03 THREE FAMILY HOMES	0.00019
##	
## (Intercept)	***
## log(gross.sqft)	***
## log(land.sqft)	***
## factor(neighborhood)BAY RIDGE	
## factor(neighborhood)BEDFORD STUYVESANT	***
## factor(neighborhood)BENSONHURST	

```

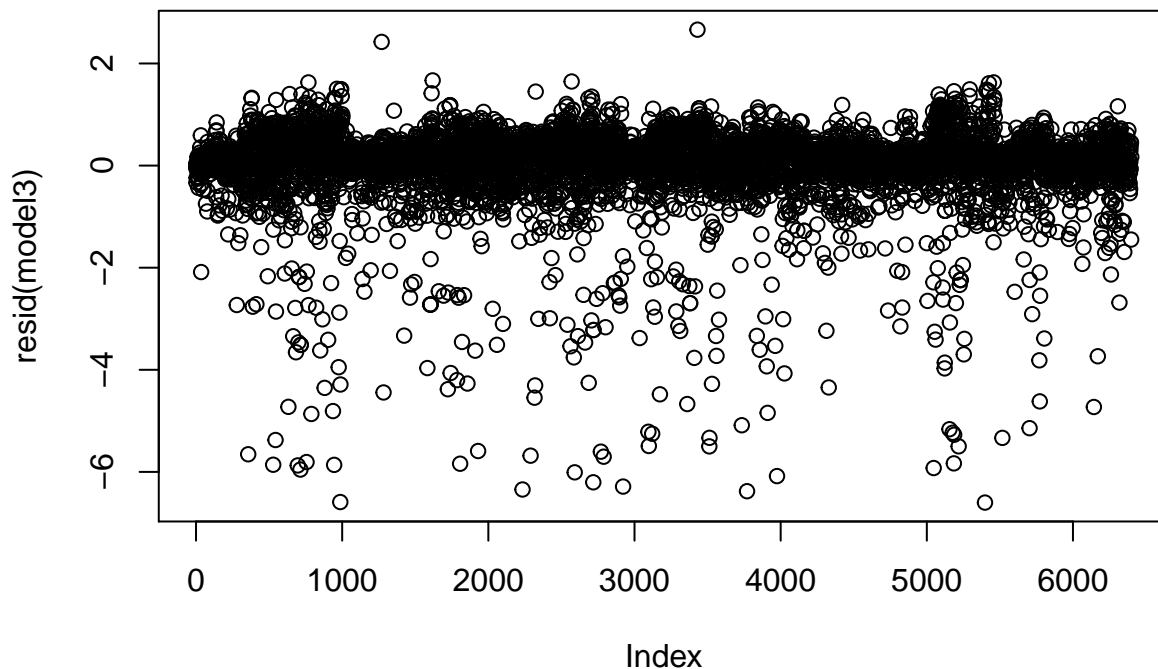
## factor(neighborhood)BERGEN BEACH
## factor(neighborhood)BOERUM HILL ***
## factor(neighborhood)BOROUGH PARK
## factor(neighborhood)BRIGHTON BEACH ***
## factor(neighborhood)BROOKLYN HEIGHTS ***
## factor(neighborhood)BROWNSVILLE ***
## factor(neighborhood)BUSH TERMINAL
## factor(neighborhood)BUSHWICK ***
## factor(neighborhood)CANARSIE ***
## factor(neighborhood)CARROLL GARDENS ***
## factor(neighborhood)CLINTON HILL **
## factor(neighborhood)COBBLE HILL ***
## factor(neighborhood)COBBLE HILL-WEST
## factor(neighborhood)CONY ISLAND **
## factor(neighborhood)CROWN HEIGHTS ***
## factor(neighborhood)CYPRESS HILLS ***
## factor(neighborhood)DOWNTOWN-FULTON FERRY
## factor(neighborhood)DOWNTOWN-FULTON MALL
## factor(neighborhood)DOWNTOWN-METROTECH .
## factor(neighborhood)DYKER HEIGHTS
## factor(neighborhood)EAST NEW YORK ***
## factor(neighborhood)FLATBUSH-CENTRAL ***
## factor(neighborhood)FLATBUSH-EAST ***
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN .
## factor(neighborhood)FLATBUSH-NORTH ***
## factor(neighborhood)FLATLANDS ***
## factor(neighborhood)FORT GREENE ***
## factor(neighborhood)GERRITSEN BEACH ***
## factor(neighborhood)GOWANUS ***
## factor(neighborhood)GRAVESEND
## factor(neighborhood)GREENPOINT .
## factor(neighborhood)KENSINGTON
## factor(neighborhood)MADISON
## factor(neighborhood)MANHATTAN BEACH
## factor(neighborhood)MARINE PARK *
## factor(neighborhood)MIDWOOD
## factor(neighborhood)MILL BASIN
## factor(neighborhood)NAVY YARD
## factor(neighborhood)OCEAN HILL ***
## factor(neighborhood)OCEAN PARKWAY-NORTH
## factor(neighborhood)OCEAN PARKWAY-SOUTH
## factor(neighborhood)OLD MILL BASIN ***
## factor(neighborhood)PARK SLOPE ***
## factor(neighborhood)PARK SLOPE SOUTH ***
## factor(neighborhood)PROSPECT HEIGHTS ***
## factor(neighborhood)RED HOOK
## factor(neighborhood)SEAGATE .
## factor(neighborhood)SHEEPSHEAD BAY .
## factor(neighborhood)SPRING CREEK ***
## factor(neighborhood)SUNSET PARK
## factor(neighborhood)WILLIAMSBURG-CENTRAL
## factor(neighborhood)WILLIAMSBURG-EAST *
## factor(neighborhood)WILLIAMSBURG-NORTH ***
## factor(neighborhood)WILLIAMSBURG-SOUTH

```



```
## factor(neighborhood)WINDSOR TERRACE          **
## factor(neighborhood)WYCKOFF HEIGHTS          *
## factor(building.class.category)02 TWO FAMILY HOMES      *
## factor(building.class.category)03 THREE FAMILY HOMES    ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.797 on 6335 degrees of freedom
## Multiple R-squared:  0.309, Adjusted R-squared:  0.303
## F-statistic: 45 on 63 and 6335 DF, p-value: <2e-16
```

```
plot(resid(model3))
```



```
# Residual standard error: 0.7966 on 6335 degrees of freedom
# Multiple R-squared:  0.3094, Adjusted R-squared:  0.3025
# F-statistic: 45.04 on 63 and 6335 DF, p-value: < 2.2e-16
```

```
# interact neighborhood and building type
model4 <- lm(log(sale.price.n) ~ log(gross.sqft) +
             log(land.sqft) + factor(neighborhood) *
             factor(building.class.category), data=bk.homes)
summary(model4)
```

```
##
## Call:
## lm(formula = log(sale.price.n) ~ log(gross.sqft) + log(land.sqft) +
##     factor(neighborhood) * factor(building.class.category), data = bk.homes)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -6.615 -0.128  0.112  0.347  2.609
```

```

##
## Coefficients: (9 not defined because of singularities)
##
## (Intercept)
## log(gross.sqft)
## log(land.sqft)
## factor(neighborhood)BAY RIDGE
## factor(neighborhood)BEDFORD STUYVESANT
## factor(neighborhood)BENSONHURST
## factor(neighborhood)BERGEN BEACH
## factor(neighborhood)BOERUM HILL
## factor(neighborhood)BOROUGH PARK
## factor(neighborhood)BRIGHTON BEACH
## factor(neighborhood)BROOKLYN HEIGHTS
## factor(neighborhood)BROWNSVILLE
## factor(neighborhood)BUSH TERMINAL
## factor(neighborhood)BUSHWICK
## factor(neighborhood)CANARSIE
## factor(neighborhood)CARROLL GARDENS
## factor(neighborhood)CLINTON HILL
## factor(neighborhood)COBBLE HILL
## factor(neighborhood)COBBLE HILL-WEST
## factor(neighborhood)CONY ISLAND
## factor(neighborhood)CROWN HEIGHTS
## factor(neighborhood)CYPRESS HILLS
## factor(neighborhood)DOWNTOWN-FULTON FERRY
## factor(neighborhood)DOWNTOWN-FULTON MALL
## factor(neighborhood)DOWNTOWN-METROTECH
## factor(neighborhood)DYKER HEIGHTS
## factor(neighborhood)EAST NEW YORK
## factor(neighborhood)FLATBUSH-CENTRAL
## factor(neighborhood)FLATBUSH-EAST
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN
## factor(neighborhood)FLATBUSH-NORTH
## factor(neighborhood)FLATLANDS
## factor(neighborhood)FORT GREENE
## factor(neighborhood)GERRITSEN BEACH
## factor(neighborhood)GOWANUS
## factor(neighborhood)GRAVESEND
## factor(neighborhood)GREENPOINT
## factor(neighborhood)KENSINGTON
## factor(neighborhood)MADISON
## factor(neighborhood)MANHATTAN BEACH
## factor(neighborhood)MARINE PARK
## factor(neighborhood)MIDWOOD
## factor(neighborhood)MILL BASIN
## factor(neighborhood)NAVY YARD
## factor(neighborhood)OCEAN HILL
## factor(neighborhood)OCEAN PARKWAY-NORTH
## factor(neighborhood)OCEAN PARKWAY-SOUTH
## factor(neighborhood)OLD MILL BASIN
## factor(neighborhood)PARK SLOPE
## factor(neighborhood)PARK SLOPE SOUTH
## factor(neighborhood)PROSPECT HEIGHTS

```

```

## factor(neighborhood)RED HOOK
## factor(neighborhood)SEAGATE
## factor(neighborhood)SHEEPSHEAD BAY
## factor(neighborhood)SPRING CREEK
## factor(neighborhood)SUNSET PARK
## factor(neighborhood)WILLIAMSBURG-CENTRAL
## factor(neighborhood)WILLIAMSBURG-EAST
## factor(neighborhood)WILLIAMSBURG-NORTH
## factor(neighborhood)WILLIAMSBURG-SOUTH
## factor(neighborhood)WINDSOR TERRACE
## factor(neighborhood)WYCKOFF HEIGHTS
## factor(building.class.category)02 TWO FAMILY HOMES
## factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)BAY RIDGE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BEDFORD STUYVESANT :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BENSONHURST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BERGEN BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BOERUM HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BOROUGH PARK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BRIGHTON BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BROOKLYN HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BROWNSVILLE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BUSH TERMINAL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BUSHWICK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CANARSIE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CARROLL GARDENS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CLINTON HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)COBBLE HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)COBBLE HILL-WEST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CONY ISLAND :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CROWN HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CYPRESS HILLS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON FERRY :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON MALL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-METROTECH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DYKER HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)EAST NEW YORK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-CENTRAL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-EAST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-NORTH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATLANDS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FORT GREENE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)GERRITSEN BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)GOWANUS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)GRAVESEND :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)GREENPOINT :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)KENSINGTON :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)MADISON :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)MANHATTAN BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)MARINE PARK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)MIDWOOD :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)MILL BASIN :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)NAVY YARD :factor(building.class.category)02 TWO FAMILY HOMES

```

## factor(neighborhood)OCEAN HILL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-NORTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OLD MILL BASIN	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PARK SLOPE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PARK SLOPE SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PROSPECT HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)RED HOOK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SEAGATE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SHEEPSHEAD BAY	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SPRING CREEK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SUNSET PARK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-CENTRAL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-EAST	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-NORTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WINDSOR TERRACE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WYCKOFF HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)BAY RIDGE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BEDFORD STUYVESANT	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BENSONHURST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BERGEN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BOERUM HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BOROUGH PARK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BRIGHTON BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BROOKLYN HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BROWNSVILLE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BUSH TERMINAL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BUSHWICK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CANARSIE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CARROLL GARDENS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CLINTON HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)COBBLE HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)COBBLE HILL-WEST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CONY ISLAND	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CROWN HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CYPRESS HILLS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON FERRY	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON MALL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-METROTECH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DYKER HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)EAST NEW YORK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-CENTRAL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-EAST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-NORTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATLANDS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FORT GREENE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GERRITSEN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GOWANUS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GRAVESEND	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GREENPOINT	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)KENSINGTON	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MADISON	:factor(building.class.category)03	THREE FAMILY HOMES

```

## factor(neighborhood)MANHATTAN BEACH      :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)MARINE PARK          :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)MIDWOOD              :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)MILL BASIN           :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)NAVY YARD            :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)OCEAN HILL           :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-NORTH  :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-SOUTH  :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)OLD MILL BASIN       :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)PARK SLOPE           :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)PARK SLOPE SOUTH     :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)PROSPECT HEIGHTS     :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)RED HOOK             :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SEAGATE              :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SHEEPSHEAD BAY       :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SPRING CREEK         :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SUNSET PARK          :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-CENTRAL  :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-EAST    :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-NORTH   :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-SOUTH   :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WINDSOR TERRACE      :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WYCKOFF HEIGHTS      :factor(building.class.category)03 THREE FAMILY HOMES
##
## (Intercept)
## log(gross.sqft)
## log(land.sqft)
## factor(neighborhood)BAY RIDGE
## factor(neighborhood)BEDFORD STUYVESANT
## factor(neighborhood)BENSONHURST
## factor(neighborhood)BERGEN BEACH
## factor(neighborhood)BOERUM HILL
## factor(neighborhood)BOROUGH PARK
## factor(neighborhood)BRIGHTON BEACH
## factor(neighborhood)BROOKLYN HEIGHTS
## factor(neighborhood)BROWNSVILLE
## factor(neighborhood)BUSH TERMINAL
## factor(neighborhood)BUSHWICK
## factor(neighborhood)CANARSIE
## factor(neighborhood)CARROLL GARDENS
## factor(neighborhood)CLINTON HILL
## factor(neighborhood)COBBLE HILL
## factor(neighborhood)COBBLE HILL-WEST
## factor(neighborhood)CONY ISLAND
## factor(neighborhood)CROWN HEIGHTS
## factor(neighborhood)CYPRESS HILLS
## factor(neighborhood)DOWNTOWN-FULTON FERRY
## factor(neighborhood)DOWNTOWN-FULTON MALL
## factor(neighborhood)DOWNTOWN-METROTECH
## factor(neighborhood)DYKER HEIGHTS
## factor(neighborhood)EAST NEW YORK
## factor(neighborhood)FLATBUSH-CENTRAL
## factor(neighborhood)FLATBUSH-EAST
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN

```

```

## factor(neighborhood)FLATBUSH-NORTH
## factor(neighborhood)FLATLANDS
## factor(neighborhood)FORT GREENE
## factor(neighborhood)GERRITSEN BEACH
## factor(neighborhood)GOWANUS
## factor(neighborhood)GRAVESEND
## factor(neighborhood)GREENPOINT
## factor(neighborhood)KENSINGTON
## factor(neighborhood)MADISON
## factor(neighborhood)MANHATTAN BEACH
## factor(neighborhood)MARINE PARK
## factor(neighborhood)MIDWOOD
## factor(neighborhood)MILL BASIN
## factor(neighborhood)NAVY YARD
## factor(neighborhood)OCEAN HILL
## factor(neighborhood)OCEAN PARKWAY-NORTH
## factor(neighborhood)OCEAN PARKWAY-SOUTH
## factor(neighborhood)OLD MILL BASIN
## factor(neighborhood)PARK SLOPE
## factor(neighborhood)PARK SLOPE SOUTH
## factor(neighborhood)PROSPECT HEIGHTS
## factor(neighborhood)RED HOOK
## factor(neighborhood)SEAGATE
## factor(neighborhood)SHEEPSHEAD BAY
## factor(neighborhood)SPRING CREEK
## factor(neighborhood)SUNSET PARK
## factor(neighborhood)WILLIAMSBURG-CENTRAL
## factor(neighborhood)WILLIAMSBURG-EAST
## factor(neighborhood)WILLIAMSBURG-NORTH
## factor(neighborhood)WILLIAMSBURG-SOUTH
## factor(neighborhood)WINDSOR TERRACE
## factor(neighborhood)WYCKOFF HEIGHTS
## factor(building.class.category)02 TWO FAMILY HOMES
## factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)BAY RIDGE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BEDFORD STUYVESANT :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BENSONHURST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BERGEN BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BOERUM HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BOROUGH PARK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BRIGHTON BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BROOKLYN HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BROWNSVILLE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BUSH TERMINAL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BUSHWICK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CANARSIE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CARROLL GARDENS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CLINTON HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)COBBLE HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)COBBLE HILL-WEST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CONY ISLAND :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CROWN HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CYPRESS HILLS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON FERRY :factor(building.class.category)02 TWO FAMILY HOMES

```

## factor(neighborhood)DOWNTOWN-FULTON MALL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-METROTECH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)DYKER HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)EAST NEW YORK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-CENTRAL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-EAST	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-NORTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FLATLANDS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FORT GREENE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)GERRITSEN BEACH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)GOWANUS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)GRAVESEND	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)GREENPOINT	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)KENSINGTON	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MADISON	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MANHATTAN BEACH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MARINE PARK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MIDWOOD	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MILL BASIN	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)NAVY YARD	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OCEAN HILL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-NORTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OLD MILL BASIN	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PARK SLOPE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PARK SLOPE SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PROSPECT HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)RED HOOK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SEAGATE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SHEEPSHEAD BAY	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SPRING CREEK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SUNSET PARK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-CENTRAL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-EAST	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-NORTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WINDSOR TERRACE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WYCKOFF HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)BAY RIDGE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BEDFORD STUYVESANT	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BENSONHURST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BERGEN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BOERUM HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BOROUGH PARK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BRIGHTON BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BROOKLYN HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BROWNSVILLE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BUSH TERMINAL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BUSHWICK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CANARSIE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CARROLL GARDENS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CLINTON HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)COBBLE HILL	:factor(building.class.category)03	THREE FAMILY HOMES

```

## factor(neighborhood)COBBLE HILL-WEST :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)CONEY ISLAND :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)CROWN HEIGHTS :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)CYPRESS HILLS :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON FERRY :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON MALL :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-METROTECH :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)DYKER HEIGHTS :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)EAST NEW YORK :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-CENTRAL :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-EAST :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-NORTH :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)FLATLANDS :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)FORT GREENE :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)GERRITSEN BEACH :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)GOWANUS :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)GRAVESEND :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)GREENPOINT :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)KENSINGTON :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)MADISON :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)MANHATTAN BEACH :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)MARINE PARK :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)MIDWOOD :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)MILL BASIN :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)NAVY YARD :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)OCEAN HILL :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-NORTH :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-SOUTH :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)OLD MILL BASIN :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)PARK SLOPE :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)PARK SLOPE SOUTH :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)PROSPECT HEIGHTS :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)RED HOOK :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SEAGATE :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SHEEPSHEAD BAY :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SPRING CREEK :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SUNSET PARK :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-CENTRAL :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-EAST :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-NORTH :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-SOUTH :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WINDSOR TERRACE :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WYCKOFF HEIGHTS :factor(building.class.category)03 THREE FAMILY HOMES
##
## (Intercept)
## log(gross.sqft)
## log(land.sqft)
## factor(neighborhood)BAY RIDGE
## factor(neighborhood)BEDFORD STUYVESANT
## factor(neighborhood)BENSONHURST
## factor(neighborhood)BERGEN BEACH
## factor(neighborhood)BOERUM HILL
## factor(neighborhood)BOROUGH PARK

```



```

## factor(neighborhood)BRIGHTON BEACH
## factor(neighborhood)BROOKLYN HEIGHTS
## factor(neighborhood)BROWNSVILLE
## factor(neighborhood)BUSH TERMINAL
## factor(neighborhood)BUSHWICK
## factor(neighborhood)CANARSIE
## factor(neighborhood)CARROLL GARDENS
## factor(neighborhood)CLINTON HILL
## factor(neighborhood)COBBLE HILL
## factor(neighborhood)COBBLE HILL-WEST
## factor(neighborhood)CONY ISLAND
## factor(neighborhood)CROWN HEIGHTS
## factor(neighborhood)CYPRESS HILLS
## factor(neighborhood)DOWNTOWN-FULTON FERRY
## factor(neighborhood)DOWNTOWN-FULTON MALL
## factor(neighborhood)DOWNTOWN-METROTECH
## factor(neighborhood)DYKER HEIGHTS
## factor(neighborhood)EAST NEW YORK
## factor(neighborhood)FLATBUSH-CENTRAL
## factor(neighborhood)FLATBUSH-EAST
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN
## factor(neighborhood)FLATBUSH-NORTH
## factor(neighborhood)FLATLANDS
## factor(neighborhood)FORT GREENE
## factor(neighborhood)GERRITSEN BEACH
## factor(neighborhood)GOWANUS
## factor(neighborhood)GRAVESEND
## factor(neighborhood)GREENPOINT
## factor(neighborhood)KENSINGTON
## factor(neighborhood)MADISON
## factor(neighborhood)MANHATTAN BEACH
## factor(neighborhood)MARINE PARK
## factor(neighborhood)MIDWOOD
## factor(neighborhood)MILL BASIN
## factor(neighborhood)NAVY YARD
## factor(neighborhood)OCEAN HILL
## factor(neighborhood)OCEAN PARKWAY-NORTH
## factor(neighborhood)OCEAN PARKWAY-SOUTH
## factor(neighborhood)OLD MILL BASIN
## factor(neighborhood)PARK SLOPE
## factor(neighborhood)PARK SLOPE SOUTH
## factor(neighborhood)PROSPECT HEIGHTS
## factor(neighborhood)RED HOOK
## factor(neighborhood)SEAGATE
## factor(neighborhood)SHEEPSHEAD BAY
## factor(neighborhood)SPRING CREEK
## factor(neighborhood)SUNSET PARK
## factor(neighborhood)WILLIAMSBURG-CENTRAL
## factor(neighborhood)WILLIAMSBURG-EAST
## factor(neighborhood)WILLIAMSBURG-NORTH
## factor(neighborhood)WILLIAMSBURG-SOUTH
## factor(neighborhood)WINDSOR TERRACE
## factor(neighborhood)WYCKOFF HEIGHTS
## factor(building.class.category)02 TWO FAMILY HOMES

```

```

## factor(building.class.category)03  THREE FAMILY HOMES
## factor(neighborhood)BAY RIDGE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BEDFORD STUYVESANT :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BENSONHURST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BERGEN BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BOERUM HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BOROUGH PARK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BRIGHTON BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BROOKLYN HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BROWNSVILLE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BUSH TERMINAL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BUSHWICK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CANARSIE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CARROLL GARDENS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CLINTON HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)COBBLE HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)COBBLE HILL-WEST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CONY ISLAND :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CROWN HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CYPRESS HILLS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON FERRY :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON MALL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-METROTECH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DYKER HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)EAST NEW YORK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-CENTRAL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-EAST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-NORTH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATLANDS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FORT GREENE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)GERRITSEN BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)GOWANUS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)GRAVESEND :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)GREENPOINT :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)KENSINGTON :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)MADISON :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)MANHATTAN BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)MARINE PARK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)MIDWOOD :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)MILL BASIN :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)NAVY YARD :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)OCEAN HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-NORTH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-SOUTH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)OLD MILL BASIN :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)PARK SLOPE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)PARK SLOPE SOUTH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)PROSPECT HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)RED HOOK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)SEAGATE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)SHEEPSHEAD BAY :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)SPRING CREEK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)SUNSET PARK :factor(building.class.category)02 TWO FAMILY HOMES

```

## factor(neighborhood)WILLIAMSBURG-CENTRAL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-EAST	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-NORTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WINDSOR TERRACE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WYCKOFF HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)BAY RIDGE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BEDFORD STUYVESANT	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BENSONHURST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BERGEN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BOERUM HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BOROUGH PARK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BRIGHTON BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BROOKLYN HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BROWNSVILLE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BUSH TERMINAL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BUSHWICK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CANARSIE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CARROLL GARDENS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CLINTON HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)COBBLE HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)COBBLE HILL-WEST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CONY ISLAND	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CROWN HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CYPRESS HILLS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON FERRY	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON MALL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-METROTECH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DYKER HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)EAST NEW YORK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-CENTRAL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-EAST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-NORTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATLANDS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FORT GREENE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GERRITSEN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GOWANUS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GRAVESEND	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GREENPOINT	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)KENSINGTON	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MADISON	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MANHATTAN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MARINE PARK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MIDWOOD	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MILL BASIN	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)NAVY YARD	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OCEAN HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-NORTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-SOUTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OLD MILL BASIN	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)PARK SLOPE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)PARK SLOPE SOUTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)PROSPECT HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES

```

## factor(neighborhood)RED HOOK                :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SEAGATE                  :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SHEEPSHEAD BAY           :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SPRING CREEK             :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)SUNSET PARK              :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-CENTRAL      :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-EAST        :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-NORTH       :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-SOUTH       :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WINDSOR TERRACE          :factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)WYCKOFF HEIGHTS          :factor(building.class.category)03 THREE FAMILY HOMES
##
## (Intercept)
## log(gross.sqft)
## log(land.sqft)
## factor(neighborhood)BAY RIDGE
## factor(neighborhood)BEDFORD STUYVESANT
## factor(neighborhood)BENSONHURST
## factor(neighborhood)BERGEN BEACH
## factor(neighborhood)BOERUM HILL
## factor(neighborhood)BOROUGH PARK
## factor(neighborhood)BRIGHTON BEACH
## factor(neighborhood)BROOKLYN HEIGHTS
## factor(neighborhood)BROWNSVILLE
## factor(neighborhood)BUSH TERMINAL
## factor(neighborhood)BUSHWICK
## factor(neighborhood)CANARSIE
## factor(neighborhood)CARROLL GARDENS
## factor(neighborhood)CLINTON HILL
## factor(neighborhood)COBBLE HILL
## factor(neighborhood)COBBLE HILL-WEST
## factor(neighborhood)CONY ISLAND
## factor(neighborhood)CROWN HEIGHTS
## factor(neighborhood)CYPRESS HILLS
## factor(neighborhood)DOWNTOWN-FULTON FERRY
## factor(neighborhood)DOWNTOWN-FULTON MALL
## factor(neighborhood)DOWNTOWN-METROTECH
## factor(neighborhood)DYKER HEIGHTS
## factor(neighborhood)EAST NEW YORK
## factor(neighborhood)FLATBUSH-CENTRAL
## factor(neighborhood)FLATBUSH-EAST
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN
## factor(neighborhood)FLATBUSH-NORTH
## factor(neighborhood)FLATLANDS
## factor(neighborhood)FORT GREENE
## factor(neighborhood)GERRITSEN BEACH
## factor(neighborhood)GOWANUS
## factor(neighborhood)GRAVESEND
## factor(neighborhood)GREENPOINT
## factor(neighborhood)KENSINGTON
## factor(neighborhood)MADISON
## factor(neighborhood)MANHATTAN BEACH
## factor(neighborhood)MARINE PARK
## factor(neighborhood)MIDWOOD

```

```

## factor(neighborhood)MILL BASIN
## factor(neighborhood)NAVY YARD
## factor(neighborhood)OCEAN HILL
## factor(neighborhood)OCEAN PARKWAY-NORTH
## factor(neighborhood)OCEAN PARKWAY-SOUTH
## factor(neighborhood)OLD MILL BASIN
## factor(neighborhood)PARK SLOPE
## factor(neighborhood)PARK SLOPE SOUTH
## factor(neighborhood)PROSPECT HEIGHTS
## factor(neighborhood)RED HOOK
## factor(neighborhood)SEAGATE
## factor(neighborhood)SHEEPSHEAD BAY
## factor(neighborhood)SPRING CREEK
## factor(neighborhood)SUNSET PARK
## factor(neighborhood)WILLIAMSBURG-CENTRAL
## factor(neighborhood)WILLIAMSBURG-EAST
## factor(neighborhood)WILLIAMSBURG-NORTH
## factor(neighborhood)WILLIAMSBURG-SOUTH
## factor(neighborhood)WINDSOR TERRACE
## factor(neighborhood)WYCKOFF HEIGHTS
## factor(building.class.category)02 TWO FAMILY HOMES
## factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)BAY RIDGE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BEDFORD STUYVESANT :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BENSONHURST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BERGEN BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BOERUM HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BOROUGH PARK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BRIGHTON BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BROOKLYN HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BROWNSVILLE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BUSH TERMINAL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BUSHWICK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CANARSIE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CARROLL GARDENS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CLINTON HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)COBBLE HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)COBBLE HILL-WEST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CONY ISLAND :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CROWN HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)CYPRESS HILLS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON FERRY :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON MALL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-METROTECH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)DYKER HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)EAST NEW YORK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-CENTRAL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-EAST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-NORTH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FLATLANDS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)FORT GREENE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)GERRITSEN BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)GOWANUS :factor(building.class.category)02 TWO FAMILY HOMES

```

## factor(neighborhood)GRAVESEND	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)GREENPOINT	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)KENSINGTON	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MADISON	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MANHATTAN BEACH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MARINE PARK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MIDWOOD	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MILL BASIN	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)NAVY YARD	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OCEAN HILL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-NORTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OLD MILL BASIN	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PARK SLOPE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PARK SLOPE SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PROSPECT HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)RED HOOK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SEAGATE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SHEEPSHEAD BAY	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SPRING CREEK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SUNSET PARK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-CENTRAL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-EAST	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-NORTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WINDSOR TERRACE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WYCKOFF HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)BAY RIDGE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BEDFORD STUYVESANT	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BENSONHURST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BERGEN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BOERUM HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BOROUGH PARK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BRIGHTON BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BROOKLYN HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BROWNSVILLE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BUSH TERMINAL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BUSHWICK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CANARSIE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CARROLL GARDENS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CLINTON HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)COBBLE HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)COBBLE HILL-WEST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CONY ISLAND	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CROWN HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CYPRESS HILLS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON FERRY	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON MALL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-METROTECH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DYKER HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)EAST NEW YORK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-CENTRAL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-EAST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	:factor(building.class.category)03	THREE FAMILY HOMES

## factor(neighborhood)FLATBUSH-NORTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATLANDS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FORT GREENE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GERRITSEN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GOWANUS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GRAVESEND	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GREENPOINT	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)KENSINGTON	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MADISON	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MANHATTAN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MARINE PARK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MIDWOOD	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MILL BASIN	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)NAVY YARD	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OCEAN HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-NORTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-SOUTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OLD MILL BASIN	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)PARK SLOPE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)PARK SLOPE SOUTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)PROSPECT HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)RED HOOK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)SEAGATE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)SHEEPSHEAD BAY	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)SPRING CREEK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)SUNSET PARK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-CENTRAL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-EAST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-NORTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-SOUTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WINDSOR TERRACE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WYCKOFF HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
##		
## (Intercept)		
## log(gross.sqft)		
## log(land.sqft)		
## factor(neighborhood)BAY RIDGE		
## factor(neighborhood)BEDFORD STUYVESANT		
## factor(neighborhood)BENSONHURST		
## factor(neighborhood)BERGEN BEACH		
## factor(neighborhood)BOERUM HILL		
## factor(neighborhood)BOROUGH PARK		
## factor(neighborhood)BRIGHTON BEACH		
## factor(neighborhood)BROOKLYN HEIGHTS		
## factor(neighborhood)BROWNSVILLE		
## factor(neighborhood)BUSH TERMINAL		
## factor(neighborhood)BUSHWICK		
## factor(neighborhood)CANARSIE		
## factor(neighborhood)CARROLL GARDENS		
## factor(neighborhood)CLINTON HILL		
## factor(neighborhood)COBBLE HILL		
## factor(neighborhood)COBBLE HILL-WEST		
## factor(neighborhood)CONEY ISLAND		
## factor(neighborhood)CROWN HEIGHTS		

```

## factor(neighborhood)CYPRESS HILLS
## factor(neighborhood)DOWNTOWN-FULTON FERRY
## factor(neighborhood)DOWNTOWN-FULTON MALL
## factor(neighborhood)DOWNTOWN-METROTECH
## factor(neighborhood)DYKER HEIGHTS
## factor(neighborhood)EAST NEW YORK
## factor(neighborhood)FLATBUSH-CENTRAL
## factor(neighborhood)FLATBUSH-EAST
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN
## factor(neighborhood)FLATBUSH-NORTH
## factor(neighborhood)FLATLANDS
## factor(neighborhood)FORT GREENE
## factor(neighborhood)GERRITSEN BEACH
## factor(neighborhood)GOWANUS
## factor(neighborhood)GRAVESEND
## factor(neighborhood)GREENPOINT
## factor(neighborhood)KENSINGTON
## factor(neighborhood)MADISON
## factor(neighborhood)MANHATTAN BEACH
## factor(neighborhood)MARINE PARK
## factor(neighborhood)MIDWOOD
## factor(neighborhood)MILL BASIN
## factor(neighborhood)NAVY YARD
## factor(neighborhood)OCEAN HILL
## factor(neighborhood)OCEAN PARKWAY-NORTH
## factor(neighborhood)OCEAN PARKWAY-SOUTH
## factor(neighborhood)OLD MILL BASIN
## factor(neighborhood)PARK SLOPE
## factor(neighborhood)PARK SLOPE SOUTH
## factor(neighborhood)PROSPECT HEIGHTS
## factor(neighborhood)RED HOOK
## factor(neighborhood)SEAGATE
## factor(neighborhood)SHEEPSHEAD BAY
## factor(neighborhood)SPRING CREEK
## factor(neighborhood)SUNSET PARK
## factor(neighborhood)WILLIAMSBURG-CENTRAL
## factor(neighborhood)WILLIAMSBURG-EAST
## factor(neighborhood)WILLIAMSBURG-NORTH
## factor(neighborhood)WILLIAMSBURG-SOUTH
## factor(neighborhood)WINDSOR TERRACE
## factor(neighborhood)WYCKOFF HEIGHTS
## factor(building.class.category)02 TWO FAMILY HOMES
## factor(building.class.category)03 THREE FAMILY HOMES
## factor(neighborhood)BAY RIDGE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BEDFORD STUYVESANT :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BENSONHURST :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BERGEN BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BOERUM HILL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BOROUGH PARK :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BRIGHTON BEACH :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BROOKLYN HEIGHTS :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BROWNSVILLE :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BUSH TERMINAL :factor(building.class.category)02 TWO FAMILY HOMES
## factor(neighborhood)BUSHWICK :factor(building.class.category)02 TWO FAMILY HOMES

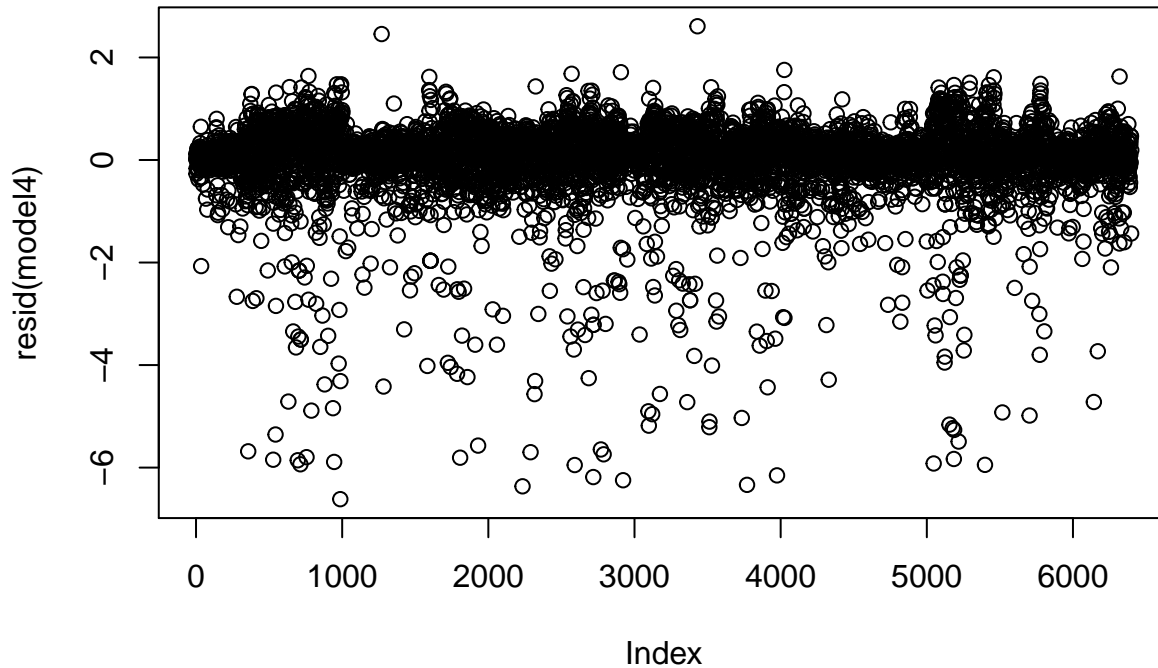
```


## factor(neighborhood)CANARSIE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)CARROLL GARDENS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)CLINTON HILL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)COBBLE HILL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)COBBLE HILL-WEST	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)CONY ISLAND	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)CROWN HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)CYPRESS HILLS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON FERRY	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON MALL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)DOWNTOWN-METROTECH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)DYKER HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)EAST NEW YORK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-CENTRAL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-EAST	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FLATBUSH-NORTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FLATLANDS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)FORT GREENE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)GERRITSEN BEACH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)GOWANUS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)GRAVESEND	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)GREENPOINT	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)KENSINGTON	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MADISON	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MANHATTAN BEACH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MARINE PARK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MIDWOOD	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)MILL BASIN	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)NAVY YARD	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OCEAN HILL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-NORTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)OLD MILL BASIN	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PARK SLOPE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PARK SLOPE SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)PROSPECT HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)RED HOOK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SEAGATE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SHEEPSHEAD BAY	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SPRING CREEK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)SUNSET PARK	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-CENTRAL	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-EAST	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-NORTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-SOUTH	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WINDSOR TERRACE	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)WYCKOFF HEIGHTS	:factor(building.class.category)02	TWO FAMILY HOMES
## factor(neighborhood)BAY RIDGE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BEDFORD STUYVESANT	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BENSONHURST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BERGEN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BOERUM HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BOROUGH PARK	:factor(building.class.category)03	THREE FAMILY HOMES

## factor(neighborhood)BRIGHTON BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BROOKLYN HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BROWNSVILLE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BUSH TERMINAL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)BUSHWICK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CANARSIE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CARROLL GARDENS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CLINTON HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)COBBLE HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)COBBLE HILL-WEST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CONY ISLAND	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CROWN HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)CYPRESS HILLS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON FERRY	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-FULTON MALL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DOWNTOWN-METROTECH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)DYKER HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)EAST NEW YORK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-CENTRAL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-EAST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-LEFFERTS GARDEN	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATBUSH-NORTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FLATLANDS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)FORT GREENE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GERRITSEN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GOWANUS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GRAVESEND	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)GREENPOINT	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)KENSINGTON	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MADISON	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MANHATTAN BEACH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MARINE PARK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MIDWOOD	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)MILL BASIN	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)NAVY YARD	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OCEAN HILL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-NORTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OCEAN PARKWAY-SOUTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)OLD MILL BASIN	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)PARK SLOPE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)PARK SLOPE SOUTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)PROSPECT HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)RED HOOK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)SEAGATE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)SHEEPSHEAD BAY	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)SPRING CREEK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)SUNSET PARK	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-CENTRAL	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-EAST	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-NORTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WILLIAMSBURG-SOUTH	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WINDSOR TERRACE	:factor(building.class.category)03	THREE FAMILY HOMES
## factor(neighborhood)WYCKOFF HEIGHTS	:factor(building.class.category)03	THREE FAMILY HOMES
## ---		

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Residual standard error: 0.791 on 6226 degrees of freedom  
## Multiple R-squared:  0.33,    Adjusted R-squared:  0.311  
## F-statistic: 17.8 on 172 and 6226 DF,  p-value: <2e-16
```

```
plot(resid(model4))
```



```
# Residual standard error: 0.7914 on 6226 degrees of freedom  
# Multiple R-squared:  0.3299,    Adjusted R-squared:  0.3114  
# F-statistic: 17.82 on 172 and 6226 DF,  p-value: < 2.2e-16
```