

DataReview_Sarah

Sarah Christen

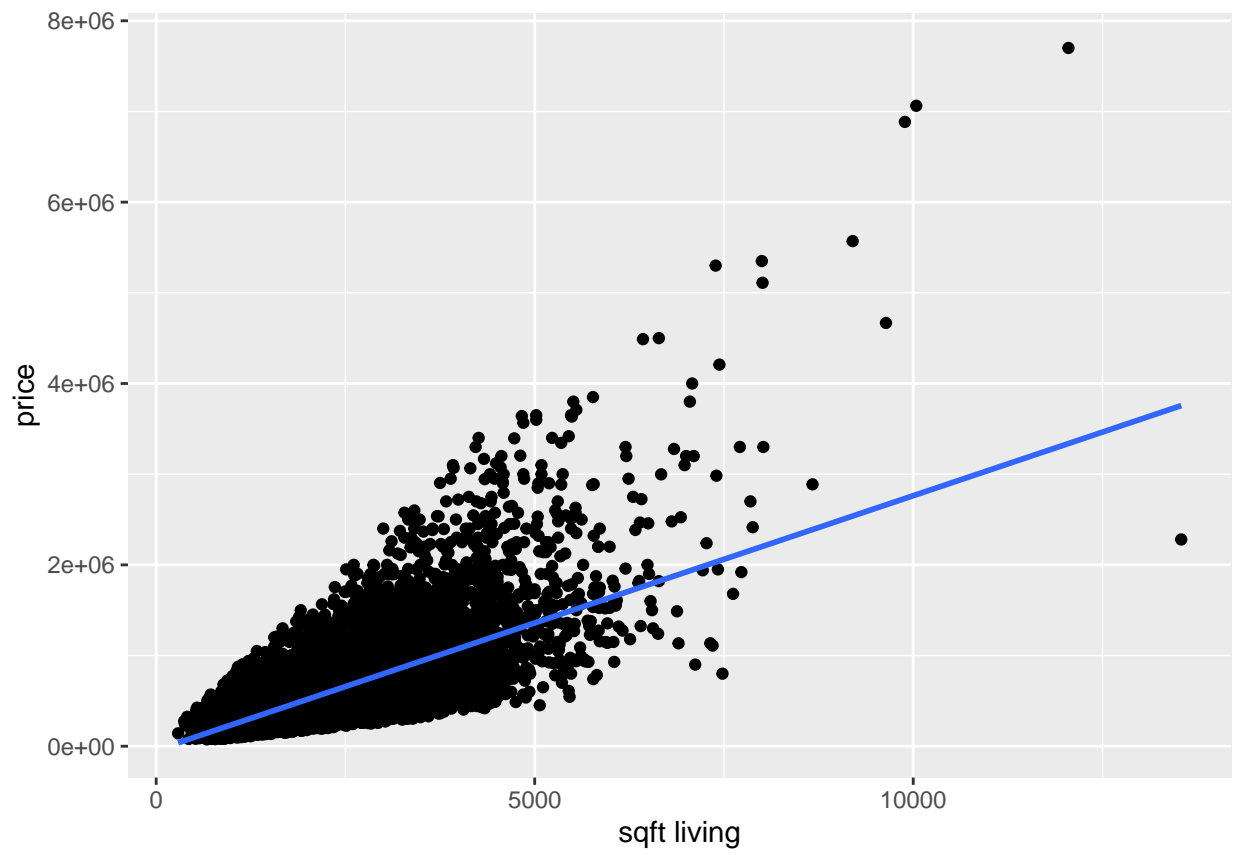
2024-11-18

Summary Stats of Variables

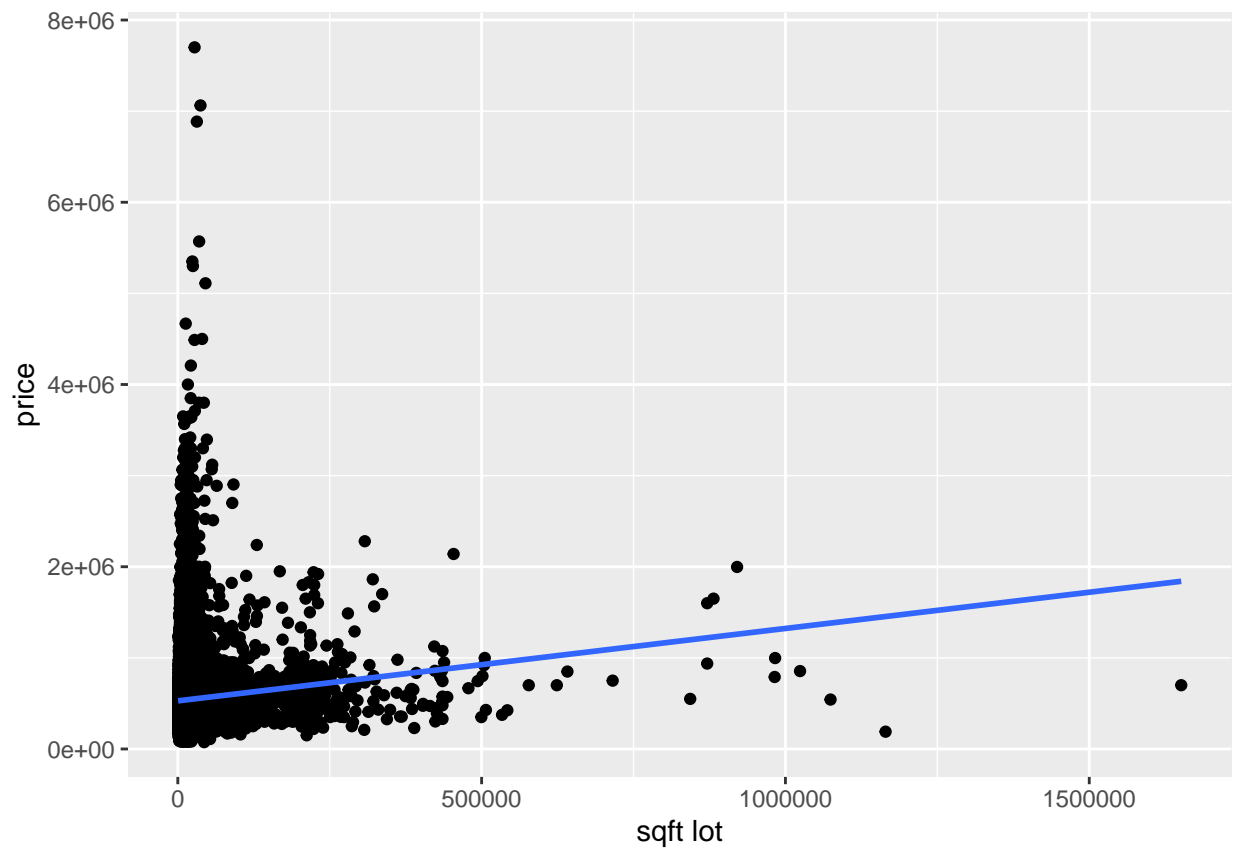
Variable	Mean	Median	Minimum	Maximum
Price	\$540,088	\$450,000	\$75,000	\$7,700,000
Bedrooms	3.37	3	0	33
Bathrooms	2.11	2.25	0	8
Sqft Living	2079.9	1910	290	13540
Sqft Lot	15106.97	7618	520	1651359
Floors	1.49	1.5	1	3.5
View	1.23	1	1	5
Condition	3.41	3	1	5
Grade	6.66	6	1	12
Sqft Above	1788.39	1560	290	9410
Sqft Basement	291.51	0	0	4820
Yr Built	1971.01	1975	1900	2015
Sqft Living 15	1986.55	1840	399	6210
Sqft Lot 15	12768.46	7620	651	871200

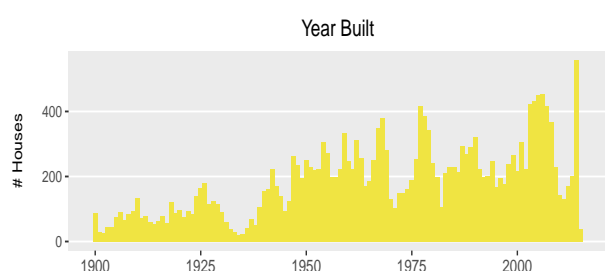
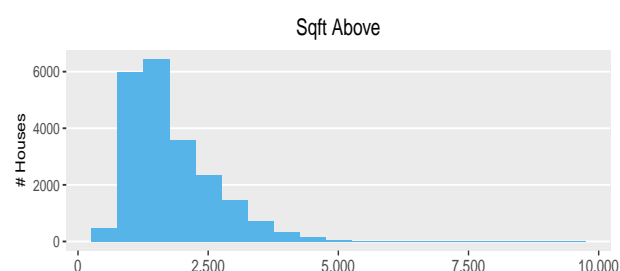
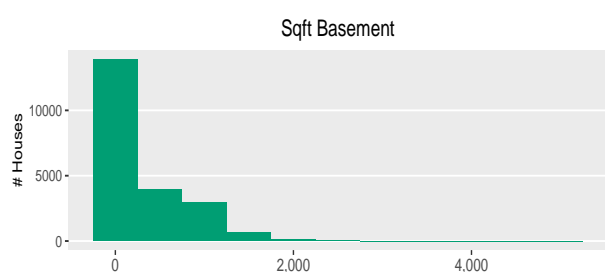
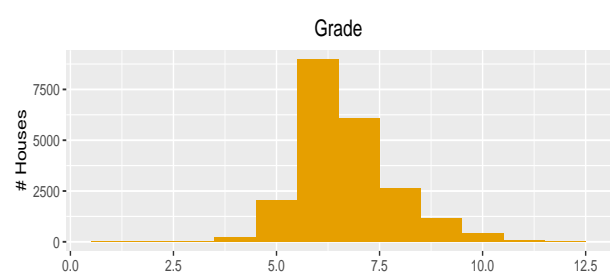
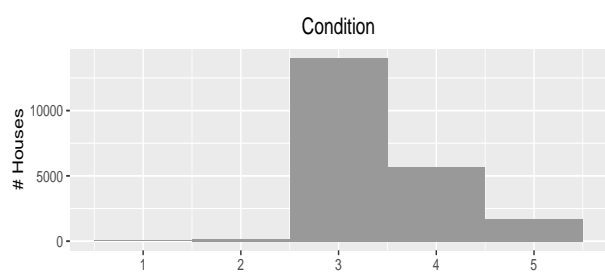
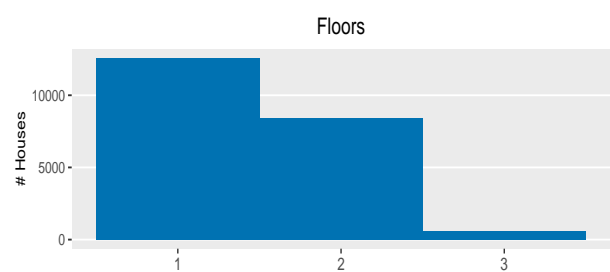
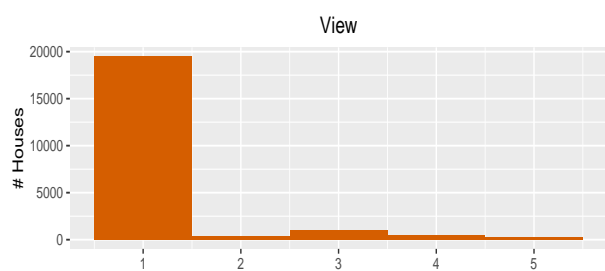
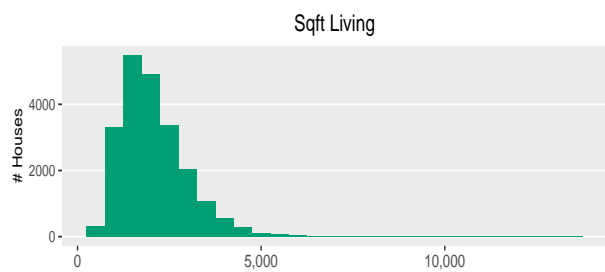
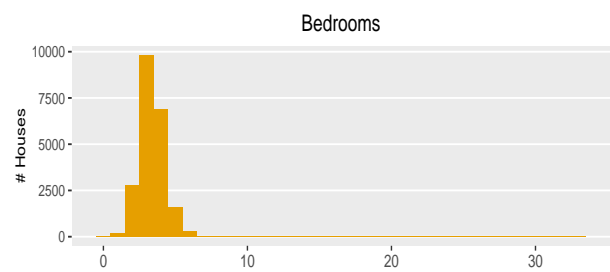
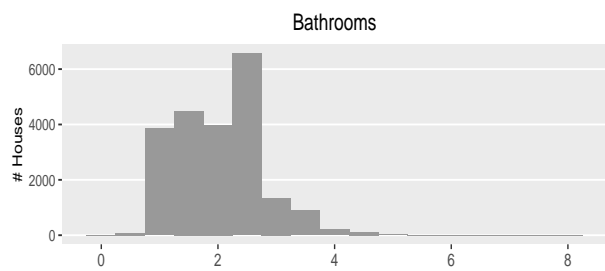
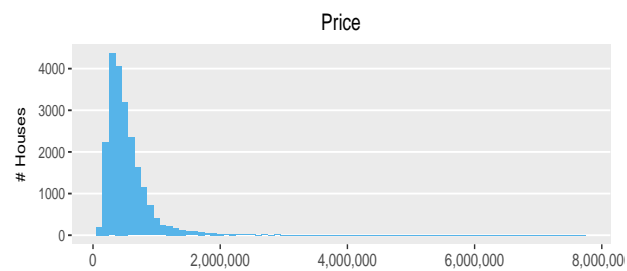
Variable	Above 3 SD	Below 3 SD
Price	406	0
Bedrooms	62	13
Bathrooms	187	0
Sqft Living	248	0
Sqft Lot	347	0
Floors	8	0
Sqft Above	254	0
Sqft Basement	247	0
Yr Built	0	0

```
## 'geom_smooth()' using formula = 'y ~ x'
```



```
## 'geom_smooth()' using formula = 'y ~ x'
```





```
Data[Data$price > 6000000,]
```

```
##           id           date  price bedrooms bathrooms sqft_living sqft_lot
## 3915 9808700762 20140611T000000 7062500         5      4.50      10040    37325
## 7253 6762700020 20141013T000000 7700000         6      8.00      12050    27600
## 9255 9208900037 20140919T000000 6885000         6      7.75       9890    31374
##      floors waterfront view condition grade sqft_above sqft_basement yr_built
## 3915     2.0          1     2          3     11       7680       2360    1940
## 7253     2.5          0     3          4     13       8570       3480    1910
## 9255     2.0          0     4          3     13       8860       1030    2001
##      yr_renovated zipcode      lat      long sqft_living15 sqft_lot15  region
## 3915           2001   98004 47.6500 -122.214       3930       25449   EAST
## 7253           1987   98102 47.6298 -122.323       3940        8800 SEATTLE
## 9255            0   98039 47.6305 -122.240       4540       42730   EAST
```

```
Data[Data$bedrooms >20,]
```

```
##           id           date  price bedrooms bathrooms sqft_living sqft_lot
## 15871 2402100895 20140625T000000 640000         33      1.75       1620    6000
##      floors waterfront view condition grade sqft_above sqft_basement yr_built
## 15871     1          0     0          5     7       1040        580    1947
##      yr_renovated zipcode      lat      long sqft_living15 sqft_lot15  region
## 15871            0   98103 47.6878 -122.331       1330       4700 SEATTLE
```

```
Data[Data$bathrooms >6,]
```

```
##           id           date  price bedrooms bathrooms sqft_living
## 4025 9175600025 20141007T000000 800000         7      6.75       7480
## 7253 6762700020 20141013T000000 7700000         6      8.00      12050
## 8093 1924059029 20140617T000000 4668000         5      6.75       9640
## 8547 424049043 20140811T000000 450000         9      7.50       4050
## 9255 9208900037 20140919T000000 6885000         6      7.75       9890
## 12778 1225069038 20140505T000000 2280000         7      8.00      13540
## 14557 2303900035 20140611T000000 2888000         5      6.25       8670
## 18303 6072800246 20140702T000000 3300000         5      6.25       8020
## 20579 424069279 20150328T000000 1180000         6      6.50       6260
## 21507 2524069097 20140509T000000 2238890         5      6.50       7270
##      sqft_lot floors waterfront view condition grade sqft_above sqft_basement
## 4025     41664     2.0          0     2          3     11       5080       2400
## 7253     27600     2.5          0     3          4     13       8570       3480
## 8093     13068     1.0          1     4          3     12       4820       4820
## 8547      6504     2.0          0     0          3     7        4050         0
## 9255     31374     2.0          0     4          3     13       8860       1030
## 12778    307752     3.0          0     4          3     12       9410       4130
## 14557     64033     2.0          0     4          3     13       6120       2550
## 18303     21738     2.0          0     0          3     11       8020         0
## 20579     10955     2.0          0     0          3     11       4840       1420
## 21507     130017     2.0          0     0          3     12       6420        850
##      yr_built yr_renovated zipcode      lat      long sqft_living15 sqft_lot15
## 4025     1953            0   98166 47.4643 -122.368       2810       33190
## 7253     1910          1987   98102 47.6298 -122.323       3940        8800
## 8093     1983          2009   98040 47.5570 -122.210       3270       10454
```

```
## 8547      1996      0  98144 47.5923 -122.301      1448      3866
## 9255      2001      0  98039 47.6305 -122.240      4540      42730
## 12778     1999      0  98053 47.6675 -121.986      4850      217800
## 14557     1965     2003 98177 47.7295 -122.372      4140      81021
## 18303     2001      0  98006 47.5675 -122.189      4160      18969
## 20579     2007      0  98075 47.5947 -122.039      2710      12550
## 21507     2010      0  98027 47.5371 -121.982      1800      44890
##      region
## 4025 SEATTLE
## 7253 SEATTLE
## 8093      EAST
## 8547 SEATTLE
## 9255      EAST
## 12778     EAST
## 14557 SEATTLE
## 18303     EAST
## 20579     EAST
## 21507     EAST
```

```
Data[Data$sqft_living >8000,]
```

```
##      id      date  price bedrooms bathrooms sqft_living
## 1165 1247600105 20141020T000000 5110800      5      5.25      8010
## 3915 9808700762 20140611T000000 7062500      5      4.50     10040
## 4412 2470100110 20140804T000000 5570000      5      5.75      9200
## 7253 6762700020 20141013T000000 7700000      6      8.00     12050
## 8093 1924059029 20140617T000000 4668000      5      6.75      9640
## 9255 9208900037 20140919T000000 6885000      6      7.75      9890
## 12778 1225069038 20140505T000000 2280000      7      8.00     13540
## 14557 2303900035 20140611T000000 2888000      5      6.25      8670
## 18303 6072800246 20140702T000000 3300000      5      6.25      8020
##      sqft_lot floors waterfront view condition grade sqft_above sqft_basement
## 1165  45517    2.0      1      4      3      12      5990      2020
## 3915  37325    2.0      1      2      3      11      7680      2360
## 4412  35069    2.0      0      0      3      13      6200      3000
## 7253  27600    2.5      0      3      4      13      8570      3480
## 8093  13068    1.0      1      4      3      12      4820      4820
## 9255  31374    2.0      0      4      3      13      8860      1030
## 12778 307752    3.0      0      4      3      12      9410      4130
## 14557 64033    2.0      0      4      3      13      6120      2550
## 18303 21738    2.0      0      0      3      11      8020      0
##      yr_built yr_renovated zipcode      lat      long sqft_living15 sqft_lot15
## 1165    1999      0  98033 47.6767 -122.211      3430      26788
## 3915    1940     2001 98004 47.6500 -122.214      3930      25449
## 4412    2001      0  98039 47.6289 -122.233      3560      24345
## 7253    1910     1987 98102 47.6298 -122.323      3940      8800
## 8093    1983     2009 98040 47.5570 -122.210      3270     10454
## 9255    2001      0  98039 47.6305 -122.240      4540      42730
## 12778   1999      0  98053 47.6675 -121.986      4850     217800
## 14557   1965     2003 98177 47.7295 -122.372      4140      81021
## 18303   2001      0  98006 47.5675 -122.189      4160      18969
##      region
## 1165    EAST
## 3915    EAST
```

```
## 4412      EAST
## 7253  SEATTLE
## 8093      EAST
## 9255      EAST
## 12778     EAST
## 14557 SEATTLE
## 18303     EAST
```

```
Data[Data$sqft_lot > 1500000,]
```

```
##          id          date price bedrooms bathrooms sqft_living sqft_lot
## 1720 1020069017 20150327T000000 7e+05      4      1      1300 1651359
##      floors waterfront view condition grade sqft_above sqft_basement yr_built
## 1720      1      0      3      4      6      1300      0      1920
##      yr_renovated zipcode      lat      long sqft_living15 sqft_lot15 region
## 1720      0      98022 47.2313 -122.023      2560      425581  SOUTH
```

```
Data[Data$floors == max(Data$floors),]
```

```
##          id          date  price bedrooms bathrooms sqft_living
## 876   6306400140 20140612T000000 1095000      0      0.00      3064
## 10078 1972202010 20140801T000000 435000      3      3.00      1440
## 11595 3180100023 20150130T000000 544000      3      2.50      1760
## 14886 8673400177 20150402T000000 525000      3      3.00      1730
## 15425 1702900664 20150416T000000 479000      2      2.50      1730
## 18478 1346300150 20141020T000000 3300000      8      4.00      7710
## 20309 1972200426 20140918T000000 525000      2      2.75      1310
## 20773 1972200428 20140625T000000 563500      3      2.50      1400
##      sqft_lot floors waterfront view condition grade sqft_above sqft_basement
## 876      4764      3.5      0      2      3      7      3064      0
## 10078      1350      3.5      0      2      3      8      1440      0
## 11595      1755      3.5      0      0      3      8      1760      0
## 14886      1074      3.5      0      0      3      8      1730      0
## 15425      1037      3.5      0      0      3      8      1730      0
## 18478      11750      3.5      0      0      5     12      6090     1620
## 20309      1268      3.5      0      0      3      8      1310      0
## 20773      1312      3.5      0      0      3      8      1400      0
##      yr_built yr_renovated zipcode      lat      long sqft_living15 sqft_lot15
## 876      1990      0      98102 47.6362 -122.322      2360      4000
## 10078      2005      0      98103 47.6525 -122.345      1440      1350
## 11595      1998      0      98105 47.6688 -122.279      1700      1721
## 14886      2006      0      98107 47.6692 -122.392      1370      1185
## 15425      2008      0      98118 47.5594 -122.285      1280      1026
## 18478      1904      0      98112 47.6263 -122.314      4210      8325
## 20309      2007      0      98103 47.6534 -122.355      1350      1288
## 20773      2007      0      98103 47.6534 -122.355      1350      1312
##      region
## 876   SEATTLE
## 10078 SEATTLE
## 11595 SEATTLE
## 14886 SEATTLE
## 15425 SEATTLE
## 18478 SEATTLE
```

```
## 20309 SEATTLE
## 20773 SEATTLE
```

```
# Data[as.numeric(Data$view) >= 5,] so many with 5 that im taking out
Data[as.numeric(Data$grade) >11,]
```

```
##          id          date  price bedrooms bathrooms sqft_living
## 4412 2470100110 20140804T000000 5570000          5          5.75          9200
## 4812 9831200500 20150304T000000 2479000          5          3.75          6810
## 5452 7237501190 20141010T000000 1780000          4          3.25          4890
## 6042 1725059316 20141120T000000 2385000          4          4.00          6330
## 7036 853200010 20140701T000000 3800000          5          5.50          7050
## 7253 6762700020 20141013T000000 7700000          6          8.00         12050
## 7908 1068000375 20140923T000000 3200000          6          5.00          7100
## 9255 9208900037 20140919T000000 6885000          6          7.75          9890
## 10374 3303850390 20141212T000000 2983000          5          5.50          7400
## 13412 2426039123 20150130T000000 2415000          5          4.75          7880
## 13701 4139900180 20150420T000000 2340000          4          2.50          4500
## 14557 2303900035 20140611T000000 2888000          5          6.25          8670
## 19018 2303900100 20140911T000000 3800000          3          4.25          5510
##          sqft_lot floors waterfront view condition grade sqft_above sqft_basement
## 4412      35069      2.0           0      0           3      13          6200          3000
## 4812       7500      2.5           0      0           3      13          6110           700
## 5452      13402      2.0           0      0           3      13          4890           0
## 6042      13296      2.0           0      2           3      13          4900          1430
## 7036      42840      1.0           0      2           4      13          4320          2730
## 7253      27600      2.5           0      3           4      13          8570          3480
## 7908      18200      2.5           0      0           3      13          5240          1860
## 9255      31374      2.0           0      4           3      13          8860          1030
## 10374      18898      2.0           0      3           3      13          6290          1110
## 13412      24250      2.0           0      2           3      13          7880           0
## 13701      35200      1.0           0      0           3      13          4500           0
## 14557      64033      2.0           0      4           3      13          6120          2550
## 19018      35000      2.0           0      4           3      13          4910           600
##          yr_built yr_renovated zipcode      lat      long sqft_living15 sqft_lot15
## 4412      2001           0    98039 47.6289 -122.233          3560      24345
## 4812      1922           0    98102 47.6285 -122.322          2660       7500
## 5452      2004           0    98059 47.5303 -122.131          5790     13539
## 6042      2000           0    98033 47.6488 -122.201          2200       9196
## 7036      1978           0    98004 47.6229 -122.220          5070     20570
## 7253      1910          1987    98102 47.6298 -122.323          3940       8800
## 7908      1933          2002    98199 47.6427 -122.408          3130       6477
## 9255      2001           0    98039 47.6305 -122.240          4540     42730
## 10374      2001           0    98006 47.5431 -122.112          6110     26442
## 13412      1996           0    98177 47.7334 -122.362          2740     10761
## 13701      1988           0    98006 47.5477 -122.126          4760     35200
## 14557      1965          2003    98177 47.7295 -122.372          4140     81021
## 19018      1997           0    98177 47.7296 -122.370          3430     45302
##          region
## 4412      EAST
## 4812 SEATTLE
## 5452      SOUTH
## 6042      EAST
## 7036      EAST
```



```
## 7253 SEATTLE
## 7908 SEATTLE
## 9255 EAST
## 10374 EAST
## 13412 SEATTLE
## 13701 EAST
## 14557 SEATTLE
## 19018 SEATTLE
```

```
Data[as.numeric(Data$condition) < 2,]
```

##	id	date	price	bedrooms	bathrooms	sqft_living		
## 37	9435300030	20140528T000000	550000	4	1.00	1660		
## 381	1726059053	20140916T000000	270000	2	1.50	1380		
## 398	5175800060	20140623T000000	365000	4	2.00	1940		
## 1443	5694000710	20141107T000000	352950	3	1.00	1760		
## 1735	913000340	20150102T000000	252000	1	1.00	680		
## 2224	3886902445	20150316T000000	535000	2	1.00	920		
## 3005	9187200245	20141231T000000	441000	4	1.50	1100		
## 3203	723049596	20140509T000000	255000	2	1.00	810		
## 3976	6324000090	20150511T000000	210000	2	1.00	990		
## 4652	859000110	20141002T000000	125000	1	1.00	500		
## 7377	9275200080	20141107T000000	295000	3	1.50	720		
## 7637	4008400515	20150120T000000	190000	1	0.75	780		
## 12307	2570600140	20150128T000000	196000	3	2.25	1510		
## 12454	4022900951	20150402T000000	305000	2	1.00	910		
## 12669	4006000281	20140729T000000	227000	3	1.75	2380		
## 13629	2023049218	20140716T000000	105500	2	1.00	930		
## 13630	2023049218	20150316T000000	445000	2	1.00	930		
## 14988	9187200095	20141202T000000	432500	6	2.00	3080		
## 15294	40000362	20140506T000000	78000	2	1.00	780		
## 15338	7849200635	20140630T000000	235000	2	1.00	900		
## 15372	7936500221	20150114T000000	658000	2	1.00	1010		
## 15713	3089000005	20140724T000000	150000	2	1.00	850		
## 16199	3028200080	20150324T000000	81000	2	1.00	730		
## 16894	3501100050	20141210T000000	125000	3	1.00	1230		
## 16943	5015001680	20140611T000000	427000	4	1.00	1860		
## 17806	2206900065	20150501T000000	380000	3	1.50	1430		
## 18333	9272202260	20140924T000000	130000	3	1.00	1200		
## 18646	7942600910	20141216T000000	575000	1	1.00	1310		
## 18877	9808700025	20150211T000000	1500000	3	1.50	1910		
## 19453	3980300371	20140926T000000	142000	0	0.00	290		
##	sqft_lot	floors	waterfront	view	condition	grade	sqft_above	sqft_basement
## 37	34848	1.0	0	0	1	5	930	730
## 381	209959	1.0	0	0	1	6	1380	0
## 398	25600	1.0	0	0	1	8	1940	0
## 1443	3000	1.5	0	0	1	6	1760	0
## 1735	1638	1.0	0	4	1	6	680	0
## 2224	9000	1.0	0	0	1	6	920	0
## 3005	3300	1.0	0	0	1	7	1100	0
## 3203	7980	1.0	0	0	1	6	810	0
## 3976	8140	1.0	0	0	1	6	990	0
## 4652	7440	1.0	0	0	1	5	500	0
## 7377	7450	1.0	0	1	1	5	720	0

##	7637	77603	1.0	0	0	1	5	780	0
##	12307	9600	1.0	0	0	1	7	1090	420
##	12454	22725	1.0	0	0	1	6	910	0
##	12669	12681	1.0	0	0	1	6	1380	1000
##	13629	7740	1.0	0	0	1	5	930	0
##	13630	7740	1.0	0	0	1	5	930	0
##	14988	5500	2.0	0	0	1	7	3080	0
##	15294	16344	1.0	0	0	1	5	780	0
##	15338	28800	1.0	0	0	1	6	900	0
##	15372	14244	1.0	1	4	1	5	1010	0
##	15713	54000	1.5	0	0	1	4	850	0
##	16199	9975	1.0	0	0	1	5	730	0
##	16894	4800	1.5	0	0	1	6	1230	0
##	16943	4736	1.5	0	0	1	7	1860	0
##	17806	11173	1.0	0	0	1	7	1430	0
##	18333	7000	2.0	0	0	1	7	1200	0
##	18646	8667	1.5	0	0	1	6	1310	0
##	18877	21374	1.0	0	0	1	8	1910	0
##	19453	20875	1.0	0	0	1	1	290	0
##	yr_built	yr_renovated	zipcode	lat	long	sqft_living15	sqft_lot15		
##	37	1933	0	98052	47.6621	-122.132	2160	11467	
##	381	1954	0	98011	47.7461	-122.195	3130	19868	
##	398	1962	0	98006	47.5722	-122.129	2000	10071	
##	1443	1900	0	98103	47.6598	-122.348	1320	1266	
##	1735	1910	1992	98116	47.5832	-122.399	1010	3621	
##	2224	1954	0	98033	47.6831	-122.189	1760	8400	
##	3005	1919	0	98122	47.6033	-122.295	2020	4000	
##	3203	1928	0	98146	47.4890	-122.337	1440	7980	
##	3976	1910	0	98116	47.5828	-122.382	2150	5000	
##	4652	1928	0	98106	47.5252	-122.362	1350	7440	
##	7377	1924	0	98126	47.5840	-122.375	2600	7360	
##	7637	1945	0	98058	47.4396	-122.104	1750	30847	
##	12307	1966	0	98028	47.7758	-122.238	1870	10681	
##	12454	1926	0	98155	47.7712	-122.299	2000	14566	
##	12669	1918	0	98118	47.5294	-122.279	1720	6377	
##	13629	1932	0	98148	47.4611	-122.324	1620	8584	
##	13630	1932	0	98148	47.4611	-122.324	1620	8584	
##	14988	1900	0	98122	47.6031	-122.296	1830	5000	
##	15294	1942	0	98168	47.4739	-122.280	1700	10387	
##	15338	1928	0	98065	47.5245	-121.822	1360	7200	
##	15372	1926	0	98136	47.5476	-122.399	1820	15792	
##	15713	1950	0	98023	47.2959	-122.377	1550	14440	
##	16199	1943	0	98168	47.4808	-122.315	860	9000	
##	16894	1916	0	98117	47.6941	-122.365	1230	4800	
##	16943	1901	0	98112	47.6251	-122.300	1800	4000	
##	17806	1955	0	98006	47.5734	-122.153	1520	11659	
##	18333	1908	0	98116	47.5883	-122.384	3290	6000	
##	18646	1918	0	98122	47.6059	-122.313	1130	4800	
##	18877	1955	0	98004	47.6453	-122.214	2850	16167	
##	19453	1963	0	98024	47.5308	-121.888	1620	22850	
##	region								
##	37	EAST							
##	381	NORTH							
##	398	EAST							

```
## 1443 SEATTLE
## 1735 SEATTLE
## 2224 EAST
## 3005 SEATTLE
## 3203 SEATTLE
## 3976 SEATTLE
## 4652 SEATTLE
## 7377 SEATTLE
## 7637 SOUTH
## 12307 NORTH
## 12454 SEATTLE
## 12669 SEATTLE
## 13629 SEATTLE
## 13630 SEATTLE
## 14988 SEATTLE
## 15294 SEATTLE
## 15338 EAST
## 15372 SEATTLE
## 15713 SOUTH
## 16199 SEATTLE
## 16894 SEATTLE
## 16943 SEATTLE
## 17806 EAST
## 18333 SEATTLE
## 18646 SEATTLE
## 18877 EAST
## 19453 EAST
```

```
Data[Data$sqft_basement >4000,]
```

```
##          id          date  price bedrooms bathrooms sqft_living
## 8093 1924059029 20140617T000000 4668000      5      6.75      9640
## 12778 1225069038 20140505T000000 2280000      7      8.00     13540
##          sqft_lot floors waterfront view condition grade sqft_above sqft_basement
## 8093      13068      1          1      4          3      12      4820      4820
## 12778      307752      3          0      4          3      12      9410      4130
##          yr_built yr_renovated zipcode      lat      long sqft_living15 sqft_lot15
## 8093      1983          2009    98040 47.5570 -122.210      3270      10454
## 12778      1999              0    98053 47.6675 -121.986      4850      217800
##          region
## 8093      EAST
## 12778      EAST
```

```
Data[Data$sqft_above >6000,]
```

```
##          id          date  price bedrooms bathrooms sqft_living
## 420  8678500060 20140710T000000 1550000      5      4.25      6070
## 528  3225079035 20140618T000000 1600000      6      5.00      6050
## 1101 7237500390 20141110T000000 1570000      5      4.50      6070
## 1449 8907500070 20150413T000000 5350000      5      5.00      8000
## 2627 7738500731 20140815T000000 4500000      5      5.50      6640
## 3122 7237500590 20141117T000000 1320000      4      5.25      6110
## 3915 9808700762 20140611T000000 7062500      5      4.50     10040
```

##	4412	2470100110	20140804T000000	5570000	5	5.75	9200		
##	4812	9831200500	20150304T000000	2479000	5	3.75	6810		
##	6502	2626069030	20150209T000000	1940000	4	5.75	7220		
##	7253	6762700020	20141013T000000	7700000	6	8.00	12050		
##	8639	3835500195	20140618T000000	4489000	4	3.00	6430		
##	9255	9208900037	20140919T000000	6885000	6	7.75	9890		
##	10374	3303850390	20141212T000000	2983000	5	5.50	7400		
##	10952	853600310	20140828T000000	1610000	5	4.50	6085		
##	11106	4054530260	20140627T000000	1820000	4	4.50	6640		
##	11872	8835800350	20150112T000000	1950000	4	3.25	7420		
##	12778	1225069038	20140505T000000	2280000	7	8.00	13540		
##	13401	1524069044	20141009T000000	1822500	4	4.50	6380		
##	13412	2426039123	20150130T000000	2415000	5	4.75	7880		
##	14557	2303900035	20140611T000000	2888000	5	6.25	8670		
##	16774	1630700380	20150130T000000	1920000	5	5.75	7730		
##	18303	6072800246	20140702T000000	3300000	5	6.25	8020		
##	18478	1346300150	20141020T000000	3300000	8	4.00	7710		
##	18595	3023069166	20140708T000000	1135250	5	4.00	7320		
##	19859	2524069078	20150122T000000	2700000	4	4.00	7850		
##	20453	1125079111	20150415T000000	1600000	4	5.50	6530		
##	20472	323079101	20150123T000000	1800000	4	3.50	6370		
##	21507	2524069097	20140509T000000	2238890	5	6.50	7270		
##		sqft_lot	floors	waterfront	view	condition	grade	sqft_above	sqft_basement
##	420	171626	2.0	0	0	3	12	6070	0
##	528	230652	2.0	0	3	3	11	6050	0
##	1101	14731	2.0	0	0	3	11	6070	0
##	1449	23985	2.0	0	4	3	12	6720	1280
##	2627	40014	2.0	1	4	3	12	6350	290
##	3122	10369	2.0	0	0	3	11	6110	0
##	3915	37325	2.0	1	2	3	11	7680	2360
##	4412	35069	2.0	0	0	3	13	6200	3000
##	4812	7500	2.5	0	0	3	13	6110	700
##	6502	223462	2.0	0	4	3	12	6220	1000
##	7253	27600	2.5	0	3	4	13	8570	3480
##	8639	27517	2.0	0	0	3	12	6430	0
##	9255	31374	2.0	0	4	3	13	8860	1030
##	10374	18898	2.0	0	3	3	13	6290	1110
##	10952	142725	3.0	0	0	3	11	6085	0
##	11106	53330	2.0	0	0	3	12	6640	0
##	11872	167869	2.0	0	3	3	12	7420	0
##	12778	307752	3.0	0	4	3	12	9410	4130
##	13401	88714	2.0	0	0	3	12	6380	0
##	13412	24250	2.0	0	2	3	13	7880	0
##	14557	64033	2.0	0	4	3	13	6120	2550
##	16774	230868	2.0	0	0	3	12	6660	1070
##	18303	21738	2.0	0	0	3	11	8020	0
##	18478	11750	3.5	0	0	5	12	6090	1620
##	18595	217800	2.0	0	0	3	11	7320	0
##	19859	89651	2.0	0	0	3	12	7850	0
##	20453	871200	2.0	0	2	3	11	6530	0
##	20472	205603	2.0	0	0	3	12	6370	0
##	21507	130017	2.0	0	0	3	12	6420	850
##		yr_built	yr_renovated	zipcode	lat	long	sqft_living15	sqft_lot15	
##	420	1999	0	98024	47.5954	-121.950	4680	211267	

##	528	2001	0	98024	47.6033	-121.943	4210	233971
##	1101	2004	0	98059	47.5306	-122.134	4750	13404
##	1449	2009	0	98004	47.6232	-122.220	4600	21750
##	2627	2004	0	98155	47.7493	-122.280	3030	23408
##	3122	2005	0	98059	47.5285	-122.135	4190	10762
##	3915	1940	2001	98004	47.6500	-122.214	3930	25449
##	4412	2001	0	98039	47.6289	-122.233	3560	24345
##	4812	1922	0	98102	47.6285	-122.322	2660	7500
##	6502	2000	0	98053	47.7097	-122.013	2680	7593
##	7253	1910	1987	98102	47.6298	-122.323	3940	8800
##	8639	2001	0	98004	47.6208	-122.219	3720	14592
##	9255	2001	0	98039	47.6305	-122.240	4540	42730
##	10374	2001	0	98006	47.5431	-122.112	6110	26442
##	10952	2000	0	98014	47.6085	-121.952	4830	128457
##	11106	1993	0	98077	47.7283	-122.046	4620	68625
##	11872	2002	0	98045	47.4548	-121.764	5610	169549
##	12778	1999	0	98053	47.6675	-121.986	4850	217800
##	13401	2006	0	98029	47.5592	-122.015	3040	7113
##	13412	1996	0	98177	47.7334	-122.362	2740	10761
##	14557	1965	2003	98177	47.7295	-122.372	4140	81021
##	16774	2004	0	98077	47.7615	-122.084	2660	39292
##	18303	2001	0	98006	47.5675	-122.189	4160	18969
##	18478	1904	0	98112	47.6263	-122.314	4210	8325
##	18595	1992	0	98058	47.4473	-122.086	3270	34500
##	19859	2006	0	98027	47.5406	-121.982	6210	95832
##	20453	2008	0	98014	47.6640	-121.878	1280	858132
##	20472	2008	0	98027	47.5016	-121.905	1490	33580
##	21507	2010	0	98027	47.5371	-121.982	1800	44890
##	region							
##	420	EAST						
##	528	EAST						
##	1101	SOUTH						
##	1449	EAST						
##	2627	SEATTLE						
##	3122	SOUTH						
##	3915	EAST						
##	4412	EAST						
##	4812	SEATTLE						
##	6502	EAST						
##	7253	SEATTLE						
##	8639	EAST						
##	9255	EAST						
##	10374	EAST						
##	10952	EAST						
##	11106	NORTH						
##	11872	EAST						
##	12778	EAST						
##	13401	EAST						
##	13412	SEATTLE						
##	14557	SEATTLE						
##	16774	NORTH						
##	18303	EAST						
##	18478	SEATTLE						
##	18595	SOUTH						

```
## 19859    EAST
## 20453    EAST
## 20472    EAST
## 21507    EAST
```

```
Data[Data$bedrooms==0,]
```

```
##          id          date   price bedrooms bathrooms sqft_living
## 876  6306400140 20140612T000000 1095000         0         0.00        3064
## 3120 3918400017 20150205T000000  380000         0         0.00        1470
## 3468 1453602309 20140805T000000  288000         0         1.50        1430
## 4869 6896300380 20141002T000000  228000         0         1.00         390
## 6995 2954400190 20140624T000000 1295650         0         0.00        4810
## 8478 2569500210 20141117T000000  339950         0         2.50        2290
## 8485 2310060040 20140925T000000  240000         0         2.50        1810
## 9774 3374500520 20150429T000000  355000         0         0.00        2460
## 9855 7849202190 20141223T000000  235000         0         0.00        1470
## 12654 7849202299 20150218T000000  320000         0         2.50        1490
## 14424 9543000205 20150413T000000  139950         0         0.00         844
## 18380 1222029077 20141029T000000  265000         0         0.75         384
## 19453 3980300371 20140926T000000  142000         0         0.00         290
##          sqft_lot floors waterfront view condition grade sqft_above sqft_basement
## 876      4764      3.5           0    2           3     7        3064           0
## 3120      979      3.0           0    2           3     8        1470           0
## 3468     1650      3.0           0    0           3     7        1430           0
## 4869      5900      1.0           0    0           2     4         390           0
## 6995     28008      2.0           0    0           3    12        4810           0
## 8478      8319      2.0           0    0           3     8        2290           0
## 8485      5669      2.0           0    0           3     7        1810           0
## 9774      8049      2.0           0    0           3     8        2460           0
## 9855      4800      2.0           0    0           3     7        1470           0
## 12654     7111      2.0           0    0           3     7        1490           0
## 14424      4269      1.0           0    0           4     7         844           0
## 18380    213444      1.0           0    0           3     4         384           0
## 19453     20875      1.0           0    0           1     1         290           0
##          yr_built yr_renovated zipcode      lat      long sqft_living15 sqft_lot15
## 876      1990           0    98102 47.6362 -122.322        2360        4000
## 3120     2006           0    98133 47.7145 -122.356        1470        1399
## 3468     1999           0    98125 47.7222 -122.290        1430        1650
## 4869     1953           0    98118 47.5260 -122.261        2170        6000
## 6995     1990           0    98053 47.6642 -122.069        4740       35061
## 8478     1985           0    98042 47.3473 -122.151        2500        8751
## 8485     2003           0    98038 47.3493 -122.053        1810        5685
## 9774     1990           0    98031 47.4095 -122.168        2520        8050
## 9855     1996           0    98065 47.5265 -121.828        1060        7200
## 12654     1999           0    98065 47.5261 -121.826        1500        4675
## 14424     1913           0    98001 47.2781 -122.250        1380        9600
## 18380     2003           0    98070 47.4177 -122.491        1920       224341
## 19453     1963           0    98024 47.5308 -121.888        1620       22850
##          region
## 876    SEATTLE
## 3120    SEATTLE
## 3468    SEATTLE
## 4869    SEATTLE
```

```
## 6995     EAST
## 8478     SOUTH
## 8485     SOUTH
## 9774     SOUTH
## 9855     EAST
## 12654    EAST
## 14424    SOUTH
## 18380    SOUTH
## 19453    EAST
```

```
Data[Data$bathrooms==0,]
```

```
##          id          date  price bedrooms bathrooms sqft_living
## 876  6306400140 20140612T000000 1095000         0         0       3064
## 1150 3421079032 20150217T000000   75000         1         0       670
## 3120 3918400017 20150205T000000  380000         0         0      1470
## 5833 5702500050 20141104T000000  280000         1         0       600
## 6995 2954400190 20140624T000000 1295650         0         0      4810
## 9774 3374500520 20150429T000000  355000         0         0      2460
## 9855 7849202190 20141223T000000  235000         0         0      1470
## 10482 203100435 20140918T000000  484000         1         0       690
## 14424 9543000205 20150413T000000  139950         0         0       844
## 19453 3980300371 20140926T000000  142000         0         0       290
##          sqft_lot floors waterfront view condition grade sqft_above sqft_basement
## 876      4764     3.5           0    2           3      7       3064           0
## 1150     43377     1.0           0    0           3      3        670           0
## 3120       979     3.0           0    2           3      8      1470           0
## 5833     24501     1.0           0    0           2      3        600           0
## 6995     28008     2.0           0    0           3     12      4810           0
## 9774     8049     2.0           0    0           3      8      2460           0
## 9855     4800     2.0           0    0           3      7      1470           0
## 10482    23244     1.0           0    0           4      7        690           0
## 14424     4269     1.0           0    0           4      7        844           0
## 19453    20875     1.0           0    0           1      1        290           0
##          yr_built yr_renovated zipcode      lat      long sqft_living15 sqft_lot15
## 876      1990           0   98102 47.6362 -122.322       2360       4000
## 1150     1966           0   98022 47.2638 -121.906       1160      42882
## 3120     2006           0   98133 47.7145 -122.356       1470       1399
## 5833     1950           0   98045 47.5316 -121.749        990      22549
## 6995     1990           0   98053 47.6642 -122.069       4740      35061
## 9774     1990           0   98031 47.4095 -122.168       2520       8050
## 9855     1996           0   98065 47.5265 -121.828       1060       7200
## 10482    1948           0   98053 47.6429 -121.955       1690      19290
## 14424    1913           0   98001 47.2781 -122.250       1380       9600
## 19453    1963           0   98024 47.5308 -121.888       1620      22850
##          region
## 876  SEATTLE
## 1150  SOUTH
## 3120  SEATTLE
## 5833  EAST
## 6995  EAST
## 9774  SOUTH
## 9855  EAST
## 10482 EAST
```

14424 SOUTH
19453 EAST