# DataReview\_Sarah

### Sarah Christen

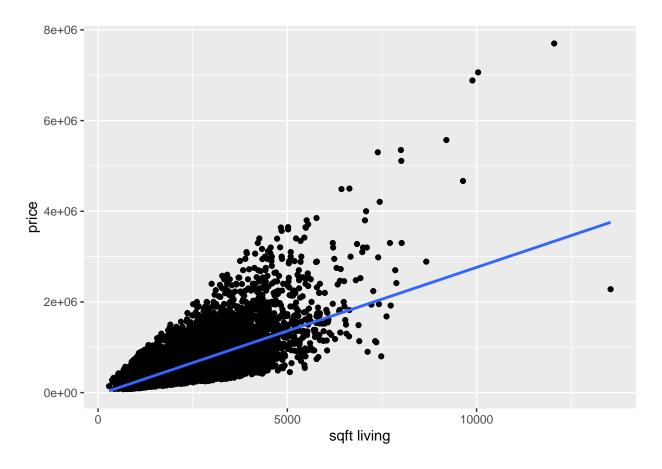
### 2024-11-18

## Summary Stats of Variables

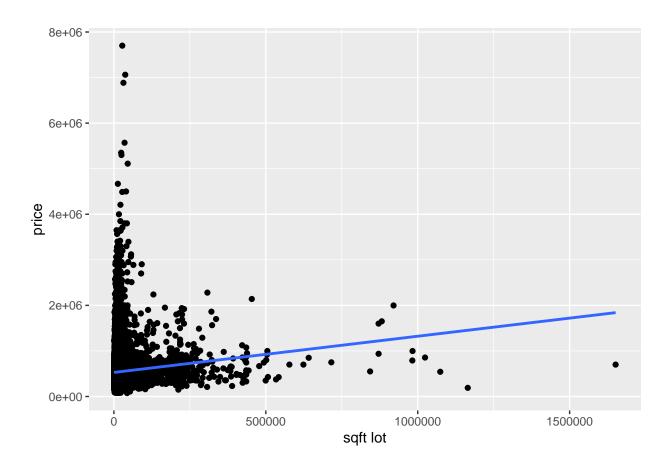
Variable	Mean	Median	Minimum	Maximum
Price	\$540,088	\$450,000	\$75,000	\$7,700,000
Bedrooms	3.37	3	0	33
Bathrooms	2.11	2.25	0	8
Sqft Living	2079.9	1910	290	13540
Sqft Lot	15106.97	7618	520	1651359
Floors	1.49	1.5	1	3.5
View	1.23	1	1	5
Condition	3.41	3	1	5
Grade	6.66	6	1	12
Sqft Above	1788.39	1560	290	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

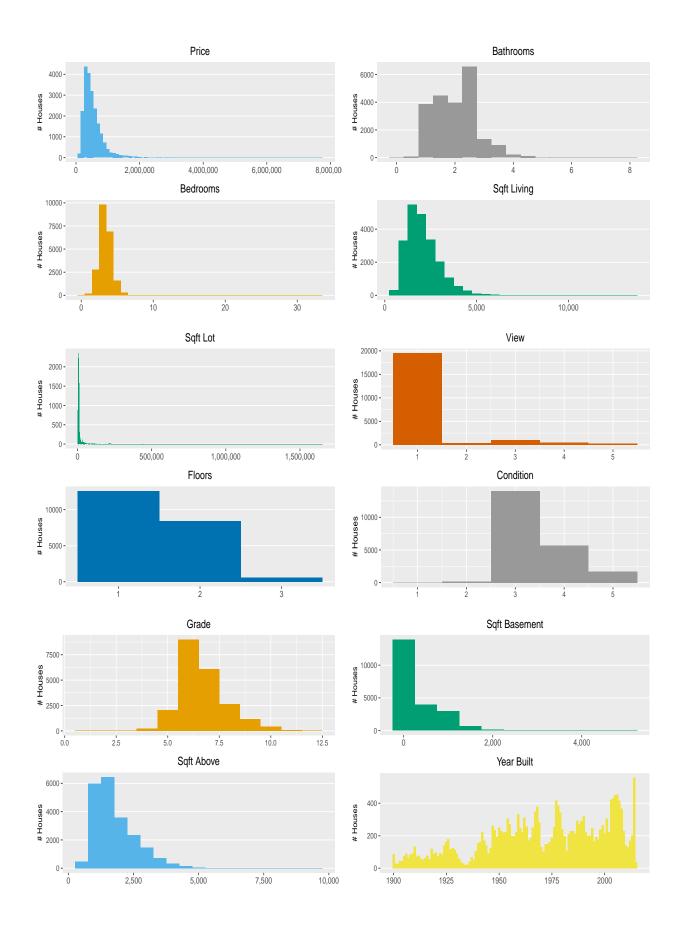
Variable	Above 3 SD	Below 3 SD
Price	406	0
Bedrooms	62	13
Bathrooms	187	0
Sqft Living	248	0
Sqft Lot	347	0
Floors	8	0
Sqft Above	254	0
Sqft Basement	247	0
Yr Built	0	0

## 'geom\_smooth()' using formula = 'y ~ x'



## 'geom\_smooth()' using formula = 'y ~ x'





#### Data[Data\$price > 6000000,]

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

#### 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
## 15871 0 98103 47.6878 -122.331 1330 4700
```

#### Data[Data\$bathrooms >6,]

##		id		date	price	bedrooms	bat:	hrooms	sqft_l:	iving
##	4025	9175600025	20141007T00	00000	800000	7	,	6.75		7480
##	7253	6762700020	20141013T00	00000	7700000	6	3	8.00	-	12050
##	8093	1924059029	20140617T00	00000	4668000	5	5	6.75		9640
##	8547	424049043	20140811T00	00000	450000	9	)	7.50		4050
##	9255	9208900037	20140919T00	00000	6885000	6	3	7.75		9890
##	12778	1225069038	20140505T00	00000	2280000	7	,	8.00	:	13540
##	14557	2303900035	20140611T00	00000	2888000	5	5	6.25		8670
##	18303	6072800246	20140702T00	00000	3300000	5	·	6.25		8020
##	20579	424069279	20150328T00	00000	1180000	6	3	6.50		6260
##	21507	2524069097	20140509T00	00000	2238890	5	·	6.50		7270
##		sqft_lot f	loors wateri	ront	view co	ndition g	grade	sqft_a	above so	qft_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
##		<pre>yr_built y</pre>	r_renovated	zipco	ode	lat 1	ong	sqft_li	iving15	sqft_lot15
##	4025	1953	0	981	166 47.4	643 -122.	368		2810	33190
##	7253	1910	1987	981	102 47.6	298 -122.	323		3940	8800
##	8093	1983	2009	980	040 47.5	570 -122.	210		3270	10454

```
## 8547
            1996
                          0 98144 47.5923 -122.301
                                                             1448
                                                                        3866
          2001
                           0
## 9255
                               98039 47.6305 -122.240
                                                              4540
                                                                       42730
## 12778
          1999
                           0 98053 47.6675 -121.986
                                                             4850
                                                                       217800
## 14557
                       2003
                               98177 47.7295 -122.372
          1965
                                                             4140
                                                                      81021
## 18303
            2001
                         0
                               98006 47.5675 -122.189
                                                             4160
                                                                        18969
## 20579
            2007
                           0
                               98075 47.5947 -122.039
                                                             2710
                                                                        12550
## 21507
            2010
                               98027 47.5371 -121.982
                                                             1800
                                                                        44890
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
                                                      5.75
                                                                   9200
                                               5 8.00
5 6.75
6 7.75
7 8.00
5 6.25
5 6.25
## 7253 6762700020 20141013T000000 7700000
## 8093 1924059029 20140617T000000 4668000
## 9255 9208900037 20140919T000000 6885000
                                                                  12050
                                                                  9640
                                                                  9890
## 12778 1225069038 20140505T000000 2280000
                                                                  13540
## 14557 2303900035 20140611T000000 2888000
                                                                   8670
## 18303 6072800246 20140702T000000 3300000
                                                                   8020
        sqft_lot floors waterfront view condition grade sqft_above sqft_basement
## 1165
        45517 2.0 1
                                     4 3 12
                                                            5990
                                                                          2020
          37325
                                                            7680
## 3915
                    2.0
                                     2
                                               3 11
                                                                          2360
                               1
                                                  13
## 4412
          35069 2.0
                                   0
                                                            6200
                                                                          3000
                               0
                                               3
## 7253
        27600 2.5
                               0 3
                                               4 13
                                                           8570
                                                                          3480
```

1 4

0 4

0 4

0 4

yr\_built yr\_renovated zipcode lat long sqft\_living15 sqft\_lot15

98004 47.6500 -122.214

98039 47.6289 -122.233

98102 47.6298 -122.323

98040 47.5570 -122.210

98039 47.6305 -122.240

98053 47.6675 -121.986

98177 47.7295 -122.372

98006 47.5675 -122.189

1999 0 98033 47.6767 -122.211 3430

0 0

2001

0 1987 2009

0

2003

0

0

3 12

3 13

3 12

4820

8860

9410

3930

3560

3940

3270

4540

4850

4140

4160

3 13 6120 3 11 8020 4820

1030

4130

2550

26788

25449

24345

8800

10454

42730

217800

81021

18969

#### Data[Data\$sqft lot >1500000,]

13068 1.0

**##** 12778 307752 3.0

**##** 14557 64033 2.0

**##** 18303 21738 2.0

1940

2001

1910

1983

2001

2001

31374 2.0

## 8093

## 9255

##

## 1165

## 3915

## 4412

## 8093

## 9255

## 18303

## 12778 1999

## 14557 1965

## 7253

```
## 1720 1020069017 20150327T000000 7e+05 4 1 1300 1651359
## 1720 1 0 3 4 6 1300 0 1920
## 1720 yr_renovated zipcode lat long sqft_living15 sqft_lot15
## 1720 0 98022 47.2313 -122.023 2560 425581
```

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

```
##
                                         price bedrooms bathrooms sqft living
                                 date
         6306400140 20140612T000000 1095000
## 876
                                                       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
                                                       2
                                        479000
                                                              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
## 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
                                    0
                                                     3
                                                                                      0
                      3.5
                                          0
                                                           8
                                                                    1730
## 18478
             11750
                      3.5
                                    0
                                          0
                                                     5
                                                          12
                                                                    6090
                                                                                   1620
## 20309
                      3.5
                                    0
                                          0
              1268
                                                     3
                                                           8
                                                                                      0
                                                                    1310
## 20773
              1312
                      3.5
                                    0
                                                     3
                                                           8
                                                                    1400
##
                                              lat
                                                       long sqft_living15 sqft_lot15
         yr_built yr_renovated zipcode
## 876
             1990
                               0
                                   98102 47.6362 -122.322
                                                                      2360
## 10078
             2005
                               0
                                   98103 47.6525 -122.345
                                                                      1440
                                                                                  1350
## 11595
                                   98105 47.6688 -122.279
                                                                      1700
             1998
                               0
                                                                                  1721
## 14886
                                   98107 47.6692 -122.392
             2006
                               0
                                                                      1370
                                                                                  1185
                                   98118 47.5594 -122.285
## 15425
                               0
             2008
                                                                      1280
                                                                                  1026
                               0
## 18478
             1904
                                   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
```

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

```
##
                                        price bedrooms bathrooms sqft_living
                  id
                                 date
## 4412
         2470100110 20140804T000000 5570000
                                                       5
                                                              5.75
                                                                           9200
         9831200500 20150304T000000 2479000
                                                       5
                                                              3.75
                                                                           6810
## 5452
         7237501190 20141010T000000 1780000
                                                       4
                                                                           4890
                                                              3.25
## 6042
         1725059316 20141120T000000 2385000
                                                       4
                                                              4.00
                                                                           6330
          853200010 20140701T000000 3800000
## 7036
                                                       5
                                                              5.50
                                                                           7050
         6762700020 20141013T000000 7700000
                                                       6
                                                              8.00
                                                                          12050
         1068000375 20140923T000000 3200000
                                                       6
## 7908
                                                              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
                                                              2.50
                                                       4
                                                                           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
                                    0
                                          0
                                                                                   700
## 4812
             7500
                      2.5
                                                    3
                                                          13
                                                                    6110
## 5452
            13402
                                    0
                                          0
                                                    3
                      2.0
                                                          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
                                         0
            18200
                      2.5
                                                          13
                                                                   5240
                                                                                   1860
## 9255
            31374
                      2.0
                                    0
                                          4
                                                          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
##		<pre>yr_built</pre>	$yr\_renovated$	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

Data[as.numeric(Data\$condition) <2,]</pre>

##		id	date	price	bedrooms	bathrooms	sqft_living	
##	37	9435300030	20140528T000000	550000	4	1.00	1660	
		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		20140506T000000	78000	2	1.00	780	
##	15338	7849200635	20140630T000000	235000	2	1.00	900	
##			20150114T000000	658000	2	1.00	1010	
##			20140724T000000	150000	2	1.00	850	
##			20150324T000000	81000	2	1.00	730	
##			20141210T000000	125000	3	1.00	1230	
##			20140611T000000	427000	4	1.00	1860	
##			20150501T000000	380000	3	1.50	1430	
##			20140924T000000	130000	3	1.00	1200	
##			20141216T000000	575000	1	1.00	1310	
##			20150211T000000		3	1.50	1910	
##	19453		20140926T000000	142000	0	0.00	290	
##		sqft_lot f	loors waterfront	view cor	ndition gr	rade sqft_a	above sqft_ba	sement

##	37	34848	1.0		0	0	1	5	930	730
	381	209959	1.0		0	0	1	6	1380	730
	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	720 780	0
	12307	9600	1.0		0	0	1	7	1090	420
	12454	22725	1.0		0	0	1	6	910	420
	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
##	10 100		yr_renova	ted		lat			sqft_living15	_
##	37	1933	J = _= 0110 1 0							24-0-20010
##				U	98052	47.6621		132	2160	11467
##	381			0		47.6621 47.7461	-122.		2160 3130	11467 19868
##	381 398	1954		0	98011	47.7461	-122. -122.	195	3130	19868
##	398	1954 1962		0	98011 98006	47.7461 47.5722	-122. -122. -122.	195 129	3130 2000	19868 10071
	398 1443	1954 1962 1900	1	0 0 0	98011 98006 98103	47.7461 47.5722 47.6598	-122. -122. -122. -122.	195 129 348	3130 2000 1320	19868 10071 1266
## ##	398 1443 1735	1954 1962 1900 1910	1	0	98011 98006 98103 98116	47.7461 47.5722 47.6598 47.5832	-122. -122. -122. -122. -122.	195 129 348 399	3130 2000 1320 1010	19868 10071 1266 3621
## ## ##	398 1443 1735 2224	1954 1962 1900	1	0 0 0 .992	98011 98006 98103 98116 98033	47.7461 47.5722 47.6598 47.5832 47.6831	-122. -122. -122. -122. -122. -122.	195 129 348 399 189	3130 2000 1320	19868 10071 1266 3621 8400
## ## ## ##	398 1443 1735	1954 1962 1900 1910 1954	1	0 0 0 .992 0	98011 98006 98103 98116 98033 98122	47.7461 47.5722 47.6598 47.5832	-122. -122. -122. -122. -122. -122.	195 129 348 399 189 295	3130 2000 1320 1010 1760 2020	19868 10071 1266 3621 8400 4000
## ## ## ##	398 1443 1735 2224 3005	1954 1962 1900 1910 1954 1919	1	0 0 0 .992 0	98011 98006 98103 98116 98033 98122 98146	47.7461 47.5722 47.6598 47.5832 47.6831 47.6033	-122. -122. -122. -122. -122. -122. -122.	195 129 348 399 189 295 337	3130 2000 1320 1010 1760 2020 1440	19868 10071 1266 3621 8400 4000 7980
## ## ## ## ##	398 1443 1735 2224 3005 3203	1954 1962 1900 1910 1954 1919 1928 1910	1	0 0 0 .992 0 0	98011 98006 98103 98116 98033 98122 98146 98116	47.7461 47.5722 47.6598 47.5832 47.6831 47.6033 47.4890 47.5828	-122. -122. -122. -122. -122. -122. -122. -122. -122.	195 129 348 399 189 295 337 382	3130 2000 1320 1010 1760 2020	19868 10071 1266 3621 8400 4000 7980 5000
## ## ## ## ## ##	398 1443 1735 2224 3005 3203 3976	1954 1962 1900 1910 1954 1919 1928 1910	1	0 0 0 .992 0 0	98011 98006 98103 98116 98033 98122 98146 98116	47.7461 47.5722 47.6598 47.5832 47.6831 47.6033 47.4890 47.5828 47.5252	-122. -122. -122. -122. -122. -122. -122. -122. -122.	195 129 348 399 189 295 337 382 362	3130 2000 1320 1010 1760 2020 1440 2150	19868 10071 1266 3621 8400 4000 7980 5000 7440
## ## ## ## ## ##	398 1443 1735 2224 3005 3203 3976 4652	1954 1962 1900 1910 1954 1919 1928 1910	1	0 0 0 .992 0 0 0	98011 98006 98103 98116 98033 98122 98146 98116 98106	47.7461 47.5722 47.6598 47.5832 47.6831 47.6033 47.4890 47.5828 47.5252 47.5840	-122. -122. -122. -122. -122. -122. -122. -122. -122. -122.	195 129 348 399 189 295 337 382 362 375	3130 2000 1320 1010 1760 2020 1440 2150 1350	19868 10071 1266 3621 8400 4000 7980 5000
## ## ## ## ## ##	398 1443 1735 2224 3005 3203 3976 4652 7377 7637	1954 1962 1900 1910 1954 1919 1928 1910 1928	1	0 0 0 .992 0 0 0 0	98011 98006 98103 98116 98033 98122 98146 98116 98126 98058	47.7461 47.5722 47.6598 47.5832 47.6831 47.6033 47.4890 47.5828 47.5252 47.5840 47.4396	-122. -122. -122. -122. -122. -122. -122. -122. -122. -122. -122.	195 129 348 399 189 295 337 382 362 375 104	3130 2000 1320 1010 1760 2020 1440 2150 1350 2600 1750	19868 10071 1266 3621 8400 4000 7980 5000 7440 7360 30847
## ## ## ## ## ## ##	398 1443 1735 2224 3005 3203 3976 4652 7377 7637 12307	1954 1962 1900 1910 1954 1919 1928 1910 1928 1924 1945 1966	1	0 0 .992 0 0 0 0	98011 98006 98103 98116 98033 98122 98146 98116 98126 98058 98028	47.7461 47.5722 47.6598 47.5832 47.6831 47.6033 47.4890 47.5828 47.5252 47.5840 47.4396 47.7758	-122122122122122122122122122122122122122.	195 129 348 399 189 295 337 382 362 375 104 238	3130 2000 1320 1010 1760 2020 1440 2150 1350 2600 1750 1870	19868 10071 1266 3621 8400 4000 7980 5000 7440 7360 30847 10681
## ## ## ## ## ## ##	398 1443 1735 2224 3005 3203 3976 4652 7377 7637 12307 12454	1954 1962 1900 1910 1954 1919 1928 1910 1928 1924 1945	1	0 0 0 .992 0 0 0 0 0	98011 98006 98103 98116 98033 98122 98146 98116 98106 98126 98058 98028 98155	47.7461 47.5722 47.6598 47.5832 47.6831 47.6033 47.4890 47.5828 47.5252 47.5840 47.4396	-122122122122122122122122122122122122122122.	195 129 348 399 189 295 337 382 362 375 104 238 299	3130 2000 1320 1010 1760 2020 1440 2150 1350 2600 1750 1870 2000	19868 10071 1266 3621 8400 4000 7980 5000 7440 7360 30847 10681 14566
## ## ## ## ## ## ##	398 1443 1735 2224 3005 3203 3976 4652 7377 7637 12307	1954 1962 1900 1910 1954 1919 1928 1910 1928 1924 1945 1966 1926	1	0 0 0 992 0 0 0 0 0	98011 98006 98103 98116 98033 98122 98146 98116 98126 98058 98028 98155 98118	47.7461 47.5722 47.6598 47.5832 47.6033 47.4890 47.5828 47.5252 47.5252 47.5840 47.7758 47.7712	-122122122122122122122122122122122122122122122.	195 129 348 399 189 295 337 382 362 375 104 238 299 279	3130 2000 1320 1010 1760 2020 1440 2150 1350 2600 1750 1870	19868 10071 1266 3621 8400 4000 7980 5000 7440 7360 30847 10681
## ## ## ## ## ## ## ##	398 1443 1735 2224 3005 3203 3976 4652 7377 7637 12307 12454 12669	1954 1962 1900 1910 1954 1919 1928 1910 1928 1924 1945 1966 1926 1918	1	0 0 0 .992 0 0 0 0 0 0	98011 98006 98103 98116 98033 98122 98146 98116 98126 98058 98058 98028 98155 98118	47.7461 47.5722 47.6598 47.5832 47.6831 47.6033 47.4890 47.5828 47.5252 47.5840 47.7758 47.7758 47.7712	-122122122122122122122122122122122122122122122122.	195 129 348 399 189 295 337 382 362 375 104 238 299 279 324	3130 2000 1320 1010 1760 2020 1440 2150 1350 2600 1750 1870 2000 1720	19868 10071 1266 3621 8400 4000 7980 5000 7440 7360 30847 10681 14566 6377
## ## ## ## ## ## ## ##	398 1443 1735 2224 3005 3203 3976 4652 7377 7637 12307 12454 12669 13629	1954 1962 1900 1910 1954 1919 1928 1910 1928 1924 1945 1966 1926 1918	1	0 0 0 9992 0 0 0 0 0 0 0 0	98011 98006 98103 98116 98033 98122 98146 98126 98126 98058 98028 98155 98118 98148	47.7461 47.5722 47.6598 47.5832 47.6831 47.6033 47.4890 47.5828 47.5252 47.5840 47.7758 47.7712 47.5294 47.4611	-122122122122122122122122122122122122122122122122.	195 129 348 399 189 295 337 382 362 375 104 238 299 279 324 324	3130 2000 1320 1010 1760 2020 1440 2150 1350 2600 1750 1870 2000 1720	19868 10071 1266 3621 8400 4000 7980 5000 7440 7360 30847 10681 14566 6377 8584
## ## ## ## ## ## ## ## ## ## ## ## ##	398 1443 1735 2224 3005 3203 3976 4652 7377 7637 12307 12454 12669 13629 13630	1954 1962 1900 1910 1954 1919 1928 1910 1928 1924 1945 1966 1918 1932 1932	1	0 0 0 992 0 0 0 0 0 0 0 0	98011 98006 98103 98116 98033 98122 98146 98106 98126 98058 98028 98155 98118 98148 98148	47.7461 47.5722 47.6598 47.5832 47.6831 47.6033 47.4890 47.5828 47.5252 47.5840 47.4396 47.7758 47.7712 47.5294 47.4611 47.4611	-122122122122122122122122122122122122122122122122122.	195 129 348 399 189 295 337 382 362 375 104 238 299 279 324 324 296	3130 2000 1320 1010 1760 2020 1440 2150 1350 2600 1750 1870 2000 1720 1620	19868 10071 1266 3621 8400 4000 7980 5000 7440 7360 30847 10681 14566 6377 8584 8584
######################################	398 1443 1735 2224 3005 3203 3976 4652 7377 7637 12307 12454 12669 13629 13630 14988	1954 1962 1900 1910 1954 1919 1928 1910 1928 1924 1945 1966 1918 1932 1932 1900	1	0 0 0 992 0 0 0 0 0 0 0 0 0 0	98011 98006 98103 98116 98033 98122 98146 98106 98126 98058 98028 98155 98118 98148 98148 98148	47.7461 47.5722 47.6598 47.5832 47.6033 47.4890 47.5828 47.5252 47.5252 47.7758 47.7758 47.7712 47.5294 47.4611 47.4611 47.6031	-122122122122122122122122122122122122122122122122122122.	195 129 348 399 189 295 337 382 362 375 104 238 299 279 324 324 296 280	3130 2000 1320 1010 1760 2020 1440 2150 1350 2600 1750 1870 2000 1720 1620 1620 1830	19868 10071 1266 3621 8400 4000 7980 5000 7440 7360 30847 10681 14566 6377 8584 8584 5000
## ## ## ## ## ## ## ## ## ## ## ## ##	398 1443 1735 2224 3005 3203 3976 4652 7377 7637 12307 12454 12669 13629 13630 14988 15294	1954 1962 1900 1910 1954 1919 1928 1910 1928 1924 1945 1966 1918 1932 1932 1900 1942	1	0 0 0 992 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	98011 98006 98103 98116 98033 98122 98146 98106 98126 98058 98028 98155 98118 98148 98148 98148	47.7461 47.5722 47.6598 47.5832 47.6033 47.4890 47.5252 47.5252 47.5252 47.7758 47.7712 47.5294 47.4611 47.4611 47.6031 47.4739	-122122122122122122122122122122122122122122122122122122122.	195 129 348 399 189 295 337 382 362 375 104 238 299 279 324 296 280 822	3130 2000 1320 1010 1760 2020 1440 2150 1350 2600 1750 1870 2000 1720 1620 1620 1830 1700	19868 10071 1266 3621 8400 4000 7980 5000 7440 7360 30847 10681 14566 6377 8584 8584 5000 10387
######################################	398 1443 1735 2224 3005 3203 3976 4652 7377 7637 12307 12454 12669 13629 13630 14988 15294 15338	1954 1962 1900 1910 1954 1919 1928 1910 1928 1924 1945 1966 1918 1932 1932 1900 1942 1928	1	0 0 0 992 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	98011 98006 98103 98116 98033 98122 98146 98106 98126 98058 98058 98155 98118 98148 98148 98148 98148 98148	47.7461 47.5722 47.6598 47.5832 47.6033 47.4890 47.5252 47.5252 47.5252 47.7758 47.7712 47.5294 47.4611 47.4611 47.6031 47.4739 47.5245	-122.	195 129 348 399 189 295 337 382 362 375 104 238 299 279 324 324 296 280 822 399	3130 2000 1320 1010 1760 2020 1440 2150 1350 2600 1750 1870 2000 1720 1620 1620 1830 1700	19868 10071 1266 3621 8400 4000 7980 5000 7440 7360 30847 10681 14566 6377 8584 8584 5000 10387 7200
######################################	398 1443 1735 2224 3005 3203 3976 4652 7377 7637 12307 12454 12669 13630 14988 15294 15338 15372	1954 1962 1900 1910 1954 1919 1928 1910 1928 1924 1945 1966 1918 1932 1932 1900 1942 1928 1926	1	0 0 0 992 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	98011 98006 98103 98116 98033 98122 98146 98116 98126 98058 98028 98155 98118 98148 98148 98149 98168 98065 98136	47.7461 47.5722 47.6598 47.5832 47.6831 47.6033 47.4890 47.5252 47.5252 47.5252 47.7758 47.7712 47.7712 47.4611 47.4611 47.4611 47.4631 47.4739 47.5245 47.5476	-122.	195 129 348 399 189 295 337 382 362 375 104 238 299 279 324 324 296 280 822 399 377	3130 2000 1320 1010 1760 2020 1440 2150 1350 2600 1750 1870 2000 1720 1620 1620 1830 1700 1360 1820	19868 10071 1266 3621 8400 4000 7980 5000 7440 7360 30847 10681 14566 6377 8584 8584 5000 10387 7200 15792

```
## 16894
             1916
                                  98117 47.6941 -122.365
                                                                    1230
                                                                                4800
## 16943
             1901
                              0
                                  98112 47.6251 -122.300
                                                                    1800
                                                                                4000
             1955
                                  98006 47.5734 -122.153
## 17806
                                                                    1520
                                                                               11659
## 18333
                              0
                                  98116 47.5883 -122.384
                                                                    3290
                                                                                6000
             1908
## 18646
             1918
                              0
                                  98122 47.6059 -122.313
                                                                    1130
                                                                                4800
## 18877
                              0
                                  98004 47.6453 -122.214
             1955
                                                                    2850
                                                                               16167
## 19453
                              0
                                  98024 47.5308 -121.888
             1963
                                                                    1620
                                                                               22850
```

#### Data[Data\$sqft\_basement >4000,]

```
##
                                       price bedrooms bathrooms sqft_living
                 iд
                                date
## 8093 1924059029 20140617T000000 4668000
                                                     5
                                                            6.75
  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
                                                   3
                                                        12
                                                                  9410
                                                                                4130
##
         yr_built yr_renovated zipcode
                                            lat
                                                     long sqft_living15 sqft_lot15
## 8093
             1983
                           2009
                                  98040 47.5570 -122.210
                                                                   3270
## 12778
             1999
                                                                    4850
                                                                             217800
                              Λ
                                  98053 47.6675 -121.986
```

#### Data[Data\$sqft above >6000,]

```
##
                                date
                                      price bedrooms bathrooms sqft_living
## 420
         8678500060 20140710T000000 1550000
                                                    5
                                                           4.25
## 528
         3225079035 20140618T000000 1600000
                                                           5.00
                                                                        6050
## 1101
        7237500390 20141110T000000 1570000
                                                           4.50
                                                                        6070
         8907500070 20150413T000000 5350000
## 1449
                                                    5
                                                           5.00
                                                                        8000
## 2627
         7738500731 20140815T000000 4500000
                                                    5
                                                           5.50
                                                                        6640
## 3122
        7237500590 20141117T000000 1320000
                                                           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
                                                           5.75
                                                                       7220
## 7253 6762700020 20141013T000000 7700000
                                                    6
                                                           8.00
                                                                       12050
         3835500195 20140618T000000 4489000
                                                           3.00
                                                                        6430
## 9255 9208900037 20140919T000000 6885000
                                                    6
                                                           7.75
                                                                        9890
## 10374 3303850390 20141212T000000 2983000
                                                           5.50
                                                                       7400
## 10952 853600310 20140828T000000 1610000
                                                    5
                                                           4.50
                                                                        6085
## 11106 4054530260 20140627T000000 1820000
                                                    4
                                                           4.50
                                                                        6640
## 11872 8835800350 20150112T000000 1950000
                                                           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
                                                           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
                                                           4.00
                                                                        7320
## 19859 2524069078 20150122T000000 2700000
                                                    4
                                                           4.00
                                                                        7850
## 20453 1125079111 20150415T000000 1600000
                                                    4
                                                           5.50
                                                                        6530
## 20472 323079101 20150123T000000 1800000
                                                           3.50
                                                                        6370
## 21507 2524069097 20140509T000000 2238890
                                                    5
                                                           6.50
         sqft_lot floors waterfront view condition grade sqft_above sqft_basement
##
```

				_					
	420	171626	2.0	0	0	3	12		0
	528	230652	2.0	0	3	3	11		0
	1101	14731	2.0	0	0	3	11		0
	1449	23985	2.0	0	4	3	12		1280
	2627	40014	2.0	1	4	3	12		290
	3122	10369	2.0	0	0	3	11		0
	3915	37325	2.0	1	2	3	11		2360
	4412	35069	2.0	0	0	3	13		3000
	4812	7500	2.5	0	0	3	13		700
	6502	223462	2.0	0	4	3	12		1000
	7253	27600	2.5	0	3	4	13		3480
	8639	27517	2.0	0	0	3	12		0
	9255	31374	2.0	0	4	3	13		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 5005				
##	3915				47.5285	-122		4190	10762
##		1940	2001		47.6500		. 135		10762 25449
	4412	1940 2001	2001 0	98004		-122	. 135 . 214	4190	
##	4412 4812		0	98004 98039	47.6500	-122 -122	.135 .214 .233	4190 3930 3560	25449 24345
		2001	0	98004 98039 98102	47.6500 47.6289	-122 -122 -122	.135 .214 .233 .322	4190 3930 3560 2660	25449
##	4812	2001 1922	0	98004 98039 98102 98053	47.6500 47.6289 47.6285	-122 -122 -122 -122	. 135 . 214 . 233 . 322 . 013	4190 3930 3560 2660 2680	25449 24345 7500 7593
## ##	4812 6502	2001 1922 2000 1910	0 0 0	98004 98039 98102 98053 98102	47.6500 47.6289 47.6285 47.7097	-122 -122 -122 -122 -122	.135 .214 .233 .322 .013 .323	4190 3930 3560 2660 2680 3940	25449 24345 7500 7593 8800
## ## ##	4812 6502 7253 8639	2001 1922 2000 1910 2001	0 0 0 1987	98004 98039 98102 98053 98102 98004	47.6500 47.6289 47.6285 47.7097 47.6298	-122 -122 -122 -122 -122 -122	.135 .214 .233 .322 .013 .323 .219	4190 3930 3560 2660 2680 3940 3720	25449 24345 7500 7593 8800 14592
## ## ## ##	4812 6502 7253 8639 9255	2001 1922 2000 1910 2001 2001	0 0 0 1987 0	98004 98039 98102 98053 98102 98004 98039	47.6500 47.6289 47.6285 47.7097 47.6298 47.6208 47.6305	-122 -122 -122 -122 -122 -122 -122	. 135 . 214 . 233 . 322 . 013 . 323 . 219 . 240	4190 3930 3560 2660 2680 3940 3720 4540	25449 24345 7500 7593 8800 14592 42730
## ## ## ##	4812 6502 7253 8639 9255 10374	2001 1922 2000 1910 2001 2001 2001	0 0 0 1987 0 0	98004 98039 98102 98053 98102 98004 98039 98006	47.6500 47.6289 47.6285 47.7097 47.6298 47.6208 47.6305 47.5431	-122 -122 -122 -122 -122 -122 -122	. 135 . 214 . 233 . 322 . 013 . 323 . 219 . 240 . 112	4190 3930 3560 2660 2680 3940 3720 4540 6110	25449 24345 7500 7593 8800 14592 42730 26442
## ## ## ## ##	4812 6502 7253 8639 9255 10374 10952	2001 1922 2000 1910 2001 2001 2001 2000	0 0 1987 0 0 0	98004 98039 98102 98053 98102 98004 98039 98006 98014	47.6500 47.6289 47.6285 47.7097 47.6298 47.6305 47.5431 47.6085	-122 -122 -122 -122 -122 -122 -122 -121	. 135 .214 .233 .322 .013 .323 .219 .240 .112	4190 3930 3560 2660 2680 3940 3720 4540 6110	25449 24345 7500 7593 8800 14592 42730 26442 128457
## ## ## ## ## ##	4812 6502 7253 8639 9255 10374 10952 11106	2001 1922 2000 1910 2001 2001 2001 2000 1993	0 0 1987 0 0 0	98004 98039 98102 98053 98102 98004 98039 98006 98014 98077	47.6500 47.6289 47.6285 47.7097 47.6298 47.6305 47.5431 47.6085 47.7283	-122 -122 -122 -122 -122 -122 -122 -121 -121	. 135 . 214 . 233 . 322 . 013 . 323 . 219 . 240 . 112 . 952 . 046	4190 3930 3560 2660 2680 3940 3720 4540 6110 4830 4620	25449 24345 7500 7593 8800 14592 42730 26442 128457 68625
## ## ## ## ## ##	4812 6502 7253 8639 9255 10374 10952 11106 11872	2001 1922 2000 1910 2001 2001 2000 1993 2002	0 0 1987 0 0 0 0	98004 98039 98102 98053 98102 98004 98039 98006 98014 98077 98045	47.6500 47.6289 47.6285 47.7097 47.6298 47.6208 47.5431 47.6085 47.7283 47.4548	-122 -122 -122 -122 -122 -122 -122 -121 -122	.135 .214 .233 .322 .013 .323 .219 .240 .112 .952 .046 .764	4190 3930 3560 2660 2680 3940 3720 4540 6110 4830 4620 5610	25449 24345 7500 7593 8800 14592 42730 26442 128457 68625 169549
## ## ## ## ## ##	4812 6502 7253 8639 9255 10374 10952 11106 11872 12778	2001 1922 2000 1910 2001 2001 2001 2000 1993 2002 1999	0 0 1987 0 0 0 0 0	98004 98039 98102 98053 98102 98004 98039 98006 98014 98077 98045	47.6500 47.6289 47.6285 47.7097 47.6298 47.6208 47.6305 47.5431 47.6085 47.7283 47.4548 47.6675	-122 -122 -122 -122 -122 -122 -122 -121 -121 -121	.135 .214 .233 .322 .013 .323 .219 .240 .112 .952 .046 .764	4190 3930 3560 2660 2680 3940 3720 4540 6110 4830 4620 5610	25449 24345 7500 7593 8800 14592 42730 26442 128457 68625 169549 217800
## ## ## ## ## ## ##	4812 6502 7253 8639 9255 10374 10952 11106 11872 12778 13401	2001 1922 2000 1910 2001 2001 2000 1993 2002 1999 2006	0 0 1987 0 0 0 0 0	98004 98039 98102 98053 98102 98004 98039 98006 98014 98077 98045 98053 98029	47.6500 47.6289 47.6285 47.7097 47.6208 47.6208 47.5431 47.6085 47.7283 47.4548 47.6675 47.5592	-122 -122 -122 -122 -122 -122 -122 -121 -121 -121 -121	.135 .214 .233 .322 .013 .323 .219 .240 .112 .952 .046 .764 .986	4190 3930 3560 2660 2680 3940 3720 4540 6110 4830 4620 5610 4850 3040	25449 24345 7500 7593 8800 14592 42730 26442 128457 68625 169549 217800 7113
## ## ## ## ## ## ##	4812 6502 7253 8639 9255 10374 10952 11106 11872 12778 13401 13412	2001 1922 2000 1910 2001 2001 2000 1993 2002 1999 2006 1996	0 0 1987 0 0 0 0 0 0	98004 98039 98102 98053 98102 98004 98039 98006 98014 98077 98045 98053 98029 98177	47.6500 47.6289 47.6285 47.7097 47.6298 47.6208 47.5431 47.6085 47.7283 47.4548 47.6675 47.5592 47.7334	-122 -122 -122 -122 -122 -122 -122 -121 -121 -121 -122 -121	.135 .214 .233 .322 .013 .323 .219 .240 .112 .952 .046 .764 .986 .015 .362	4190 3930 3560 2660 2680 3940 3720 4540 6110 4830 4620 5610 4850 3040 2740	25449 24345 7500 7593 8800 14592 42730 26442 128457 68625 169549 217800 7113 10761
## ## ## ## ## ## ##	4812 6502 7253 8639 9255 10374 10952 11106 11872 12778 13401 13412 14557	2001 1922 2000 1910 2001 2001 2000 1993 2002 1999 2006 1996 1965	0 0 1987 0 0 0 0 0 0 0 0 2003	98004 98039 98102 98053 98102 98004 98039 98014 98077 98045 98053 98029 98177	47.6500 47.6289 47.6285 47.7097 47.6298 47.6305 47.5431 47.6085 47.7283 47.4548 47.5592 47.7334 47.7295	-122 -122 -122 -122 -122 -122 -122 -121 -121 -121 -122 -122 -122	.135 .214 .233 .322 .013 .323 .219 .240 .112 .952 .046 .764 .986 .015 .362 .372	4190 3930 3560 2660 2680 3940 3720 4540 6110 4830 4620 5610 4850 3040 2740 4140	25449 24345 7500 7593 8800 14592 42730 26442 128457 68625 169549 217800 7113 10761 81021
## ## ## ## ## ## ## ##	4812 6502 7253 8639 9255 10374 10952 11106 11872 12778 13401 13412 14557 16774	2001 1922 2000 1910 2001 2001 2000 1993 2002 1999 2006 1996 1965 2004	0 0 1987 0 0 0 0 0 0 0 2003	98004 98039 98102 98053 98102 98004 98039 98014 98077 98045 98053 98029 98177 98177	47.6500 47.6289 47.6285 47.7097 47.6298 47.6305 47.5431 47.6085 47.7283 47.4548 47.6675 47.7592 47.7334 47.7295 47.7615	-122 -122 -122 -122 -122 -122 -121 -121	.135 .214 .233 .322 .013 .323 .219 .240 .112 .952 .046 .764 .986 .015 .362 .372 .084	4190 3930 3560 2660 2680 3940 3720 4540 6110 4830 4620 5610 4850 3040 2740 4140 2660	25449 24345 7500 7593 8800 14592 42730 26442 128457 68625 169549 217800 7113 10761 81021 39292
## ## ## ## ## ## ## ## ## ## ## ##	4812 6502 7253 8639 9255 10374 10952 11106 11872 12778 13401 13412 14557	2001 1922 2000 1910 2001 2001 2000 1993 2002 1999 2006 1996 1965	0 0 1987 0 0 0 0 0 0 0 0 2003	98004 98039 98102 98053 98102 98004 98039 98014 98077 98045 98053 98029 98177 98177 98077	47.6500 47.6289 47.6285 47.7097 47.6298 47.6305 47.5431 47.6085 47.7283 47.4548 47.5592 47.7334 47.7295	-122 -122 -122 -122 -122 -122 -121 -121	.135 .214 .233 .322 .013 .323 .219 .240 .112 .952 .046 .764 .986 .015 .362 .372 .084 .189	4190 3930 3560 2660 2680 3940 3720 4540 6110 4830 4620 5610 4850 3040 2740 4140	25449 24345 7500 7593 8800 14592 42730 26442 128457 68625 169549 217800 7113 10761 81021

```
## 18595
             1992
                              0
                                   98058 47.4473 -122.086
                                                                     3270
                                                                                34500
## 19859
             2006
                              0
                                   98027 47.5406 -121.982
                                                                     6210
                                                                                95832
                                   98014 47.6640 -121.878
## 20453
             2008
                               0
                                                                     1280
                                                                               858132
## 20472
                               0
                                   98027 47.5016 -121.905
             2008
                                                                     1490
                                                                                33580
## 21507
             2010
                                   98027 47.5371 -121.982
                                                                     1800
                                                                                44890
Data[Data$bedrooms==0,]
##
                                        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
         2954400190 20140624T000000 1295650
## 6995
                                                      0
                                                              0.00
                                                                           4810
         2569500210 20141117T000000
## 8478
                                       339950
                                                      0
                                                              2.50
                                                                           2290
## 8485
         2310060040 20140925T000000
                                       240000
                                                      0
                                                              2.50
                                                                           1810
         3374500520 20150429T000000
## 9774
                                       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
                                                                            290
                                                      0
                                                              0.00
##
         sqft_lot floors waterfront view condition grade sqft_above sqft_basement
## 876
              4764
                      3.5
                                    0
                                         2
                                                    3
                                                           7
                                                                   3064
## 3120
              979
                      3.0
                                    0
                                         2
                                                    3
                                                                   1470
                                                                                     0
                                                           8
                                                           7
## 3468
             1650
                      3.0
                                    0
                                         0
                                                    3
                                                                   1430
                                                                                     0
             5900
                                    0
                                         0
                                                    2
                                                           4
                                                                                     0
## 4869
                      1.0
                                                                    390
## 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
                                    0
                                         0
                                                                                     0
## 9774
             8049
                      2.0
                                                    3
                                                           8
                                                                   2460
                                                                                     0
                                                                                     0
                                                                                     0
                                                                                     0
                                                                                     0
```

##	9855	4800	2.0	0	0	3	7	1470	(
##	12654	7111	2.0	0	0	3	7	1490	(
##	14424	4269	1.0	0	0	4	7	844	(
##	18380	213444	1.0	0	0	3	4	384	(
##	19453	20875	1.0	0	0	1	1	290	(
##		<pre>yr_built</pre>	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

Data[Data\$bathrooms==0,]

##

date price bedrooms bathrooms sqft\_living

id

##	876	6306400140	20140612T0	00000	1095	000		0	0		3064	
##	1150	3421079032	20150217T0	00000	75	000		1	0		670	
##	3120	3918400017	20150205T0	00000	380	000		0	0		1470	
##	5833	5702500050	20141104T0	00000	280	000		1	0		600	
##	6995	2954400190	20140624T0	00000	1295	650		0	0		4810	
##	9774	3374500520	20150429T0	00000	355	000		0	0		2460	
##	9855	7849202190	20141223T0	00000	235	000		0	0		1470	
##	10482	203100435	20140918T0	00000	484	000		1	0		690	
##	14424	9543000205	20150413T0	00000	1399	950		0	0		844	
##	19453	3980300371	20140926T0	00000	142	000		0	0		290	
##		sqft_lot f	loors water	front	view	condi	tion	${\tt grade}$	sqft_a	bove	sqft_b	asement
##	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	r_renovated	zipc	ode	lat		long s	sqft_li	ving1	5 sqft	_lot15
##	876	1990	0	983	102 4	7.6362	-122	2.322		236	0	4000
	1150	1966	0			7.2638				116	0	42882
	3120	2006	0			7.7145				147		1399
	5833	1950	0			7.5316				99		22549
	6995	1990	0			7.6642				474		35061
##	9774	1990	0			7.4095				252	0	8050
##	9855	1996	0			7.5265				106	0	7200
	10482	1948	0			7.6429				169		19290
	14424	1913	0			7.2781				138		9600
##	19453	1963	0	980	024 4	7.5308	-121	1.888		162	0	22850