

# house price

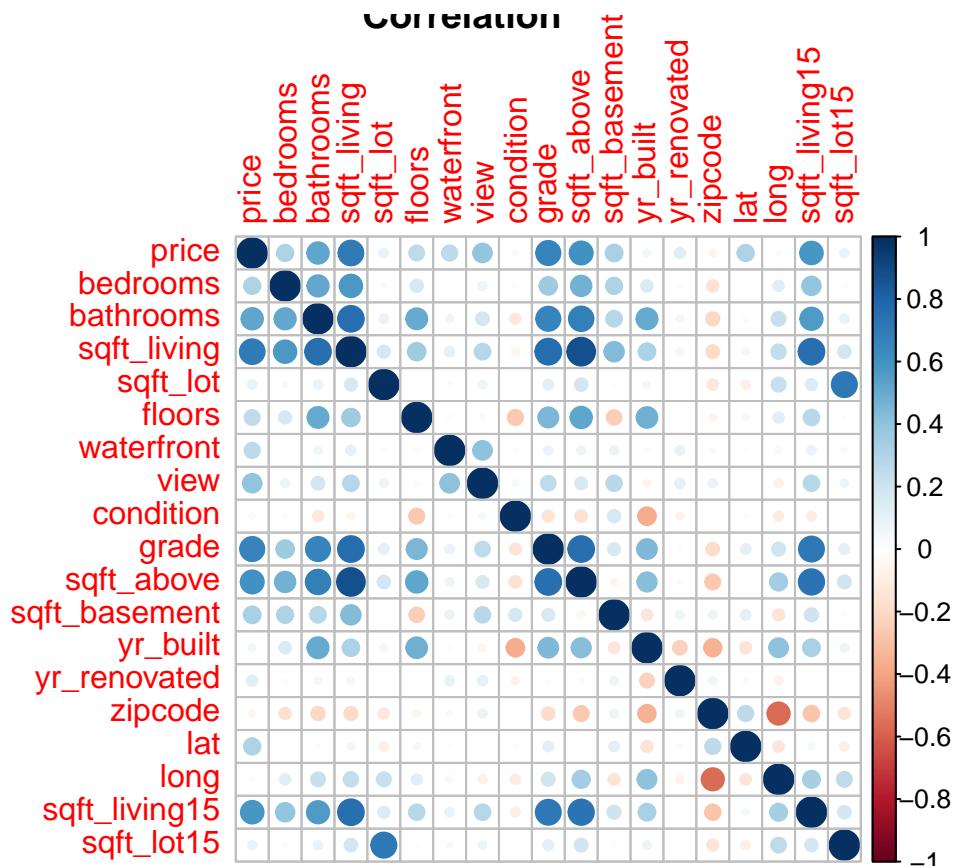
## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
house_dat=read.csv('C:\\\\Users\\\\ccl\\\\Downloads\\\\housesalesprediction\\\\kc_house_data.csv')
#install.packages('corrplot')
#install.packages('ggplot2')
library(corrplot)
```

```
## corrplot 0.84 loaded
house_dat[1:2]=NULL
house_dat1=house_dat[-19]
corH <- cor(house_dat)
corrplot(corH, type="full", method = "circle", main="Correlation")
```



```
print(round(corH, digits=2))
```

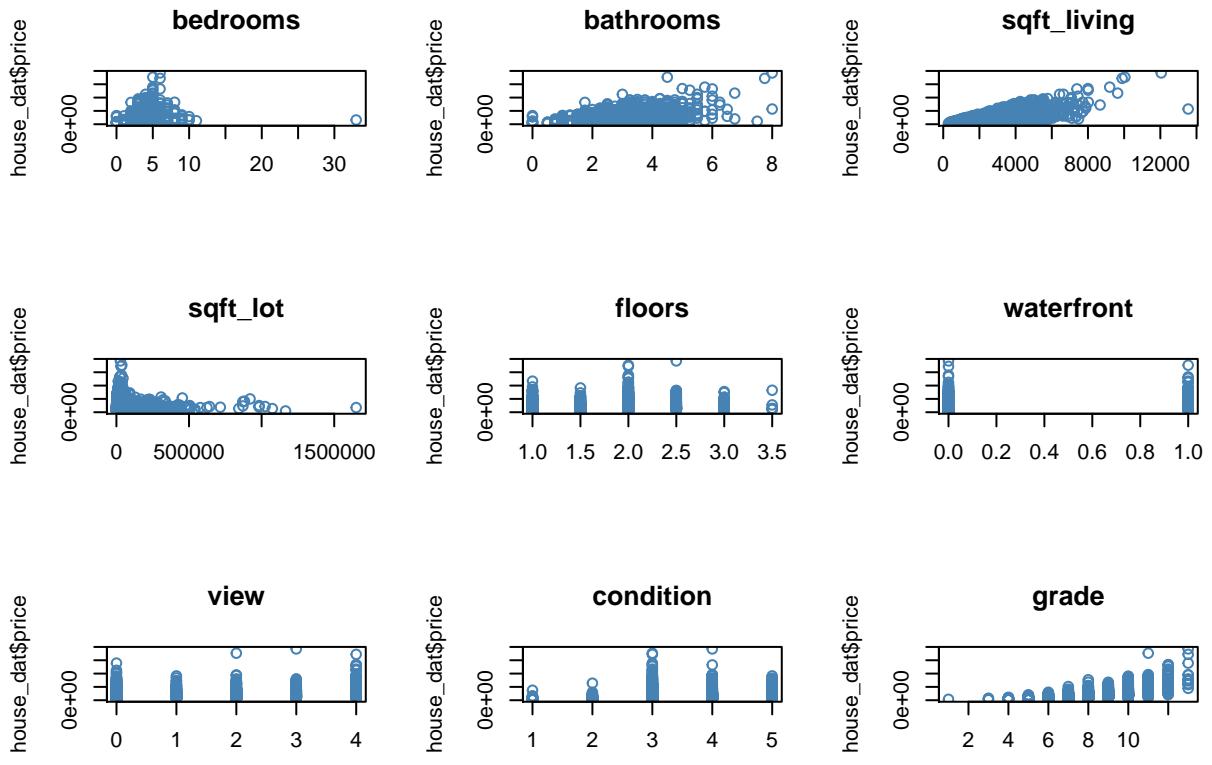
	price	bedrooms	bathrooms	sqft_living	sqft_lot	floors
## price	1.00	0.31	0.53	0.70	0.09	0.26
## bedrooms	0.31	1.00	0.52	0.58	0.03	0.18

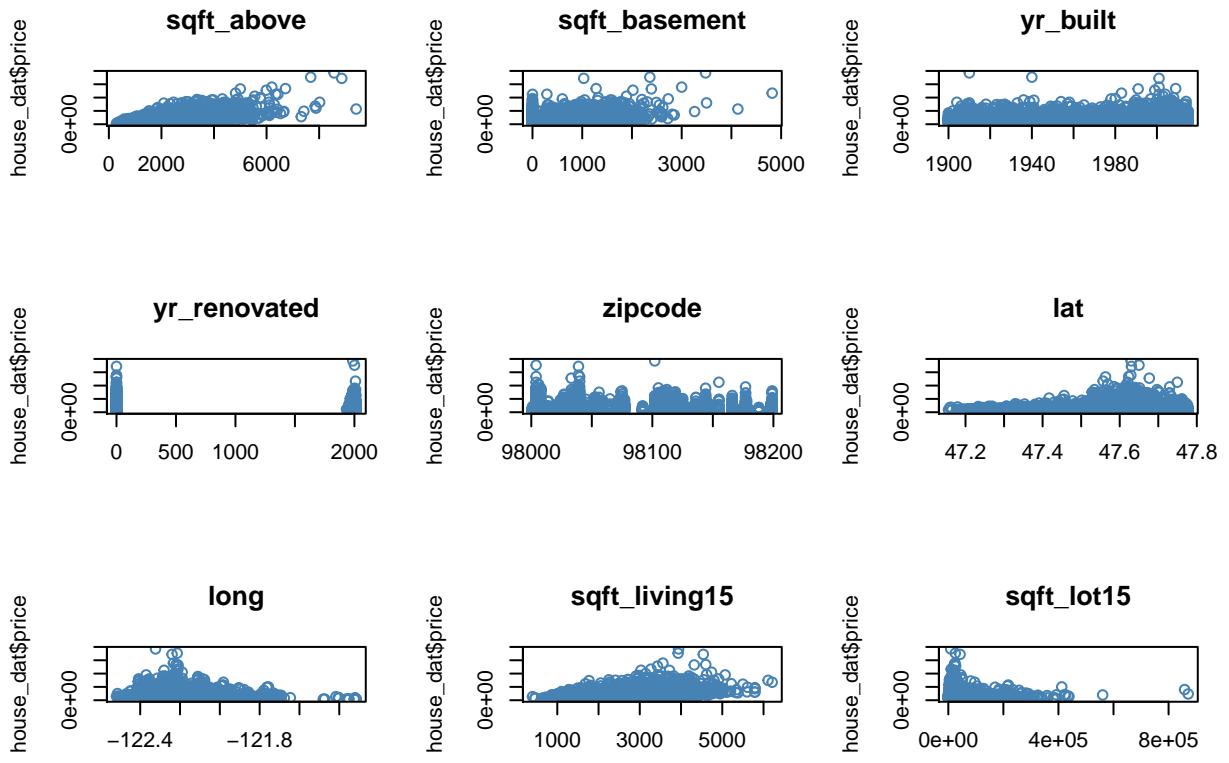
## bathrooms	0.53	0.52	1.00	0.75	0.09	0.50	
## sqft_living	0.70	0.58	0.75	1.00	0.17	0.35	
## sqft_lot	0.09	0.03	0.09	0.17	1.00	-0.01	
## floors	0.26	0.18	0.50	0.35	-0.01	1.00	
## waterfront	0.27	-0.01	0.06	0.10	0.02	0.02	
## view	0.40	0.08	0.19	0.28	0.07	0.03	
## condition	0.04	0.03	-0.12	-0.06	-0.01	-0.26	
## grade	0.67	0.36	0.66	0.76	0.11	0.46	
## sqft_above	0.61	0.48	0.69	0.88	0.18	0.52	
## sqft_basement	0.32	0.30	0.28	0.44	0.02	-0.25	
## yr_built	0.05	0.15	0.51	0.32	0.05	0.49	
## yr_renovated	0.13	0.02	0.05	0.06	0.01	0.01	
## zipcode	-0.05	-0.15	-0.20	-0.20	-0.13	-0.06	
## lat	0.31	-0.01	0.02	0.05	-0.09	0.05	
## long	0.02	0.13	0.22	0.24	0.23	0.13	
## sqft_living15	0.59	0.39	0.57	0.76	0.14	0.28	
## sqft_lot15	0.08	0.03	0.09	0.18	0.72	-0.01	
##		waterfront	view	condition	grade	sqft_above	sqft_basement
## price		0.27	0.40	0.04	0.67	0.61	0.32
## bedrooms		-0.01	0.08	0.03	0.36	0.48	0.30
## bathrooms		0.06	0.19	-0.12	0.66	0.69	0.28
## sqft_living		0.10	0.28	-0.06	0.76	0.88	0.44
## sqft_lot		0.02	0.07	-0.01	0.11	0.18	0.02
## floors		0.02	0.03	-0.26	0.46	0.52	-0.25
## waterfront		1.00	0.40	0.02	0.08	0.07	0.08
## view		0.40	1.00	0.05	0.25	0.17	0.28
## condition		0.02	0.05	1.00	-0.14	-0.16	0.17
## grade		0.08	0.25	-0.14	1.00	0.76	0.17
## sqft_above		0.07	0.17	-0.16	0.76	1.00	-0.05
## sqft_basement		0.08	0.28	0.17	0.17	-0.05	1.00
## yr_built		-0.03	-0.05	-0.36	0.45	0.42	-0.13
## yr_renovated		0.09	0.10	-0.06	0.01	0.02	0.07
## zipcode		0.03	0.08	0.00	-0.18	-0.26	0.07
## lat		-0.01	0.01	-0.01	0.11	0.00	0.11
## long		-0.04	-0.08	-0.11	0.20	0.34	-0.14
## sqft_living15		0.09	0.28	-0.09	0.71	0.73	0.20
## sqft_lot15		0.03	0.07	0.00	0.12	0.19	0.02
##		yr_builtin	yr_renovated	zipcode	lat	long	sqft_living15
## price		0.05	0.13	-0.05	0.31	0.02	0.59
## bedrooms		0.15	0.02	-0.15	-0.01	0.13	0.39
## bathrooms		0.51	0.05	-0.20	0.02	0.22	0.57
## sqft_living		0.32	0.06	-0.20	0.05	0.24	0.76
## sqft_lot		0.05	0.01	-0.13	-0.09	0.23	0.14
## floors		0.49	0.01	-0.06	0.05	0.13	0.28
## waterfront		-0.03	0.09	0.03	-0.01	-0.04	0.09
## view		-0.05	0.10	0.08	0.01	-0.08	0.28
## condition		-0.36	-0.06	0.00	-0.01	-0.11	-0.09
## grade		0.45	0.01	-0.18	0.11	0.20	0.71
## sqft_above		0.42	0.02	-0.26	0.00	0.34	0.73
## sqft_basement		-0.13	0.07	0.07	0.11	-0.14	0.20
## yr_builtin		1.00	-0.22	-0.35	-0.15	0.41	0.33
## yr_renovated		-0.22	1.00	0.06	0.03	-0.07	0.00
## zipcode		-0.35	0.06	1.00	0.27	-0.56	-0.28
## lat		-0.15	0.03	0.27	1.00	-0.14	0.05

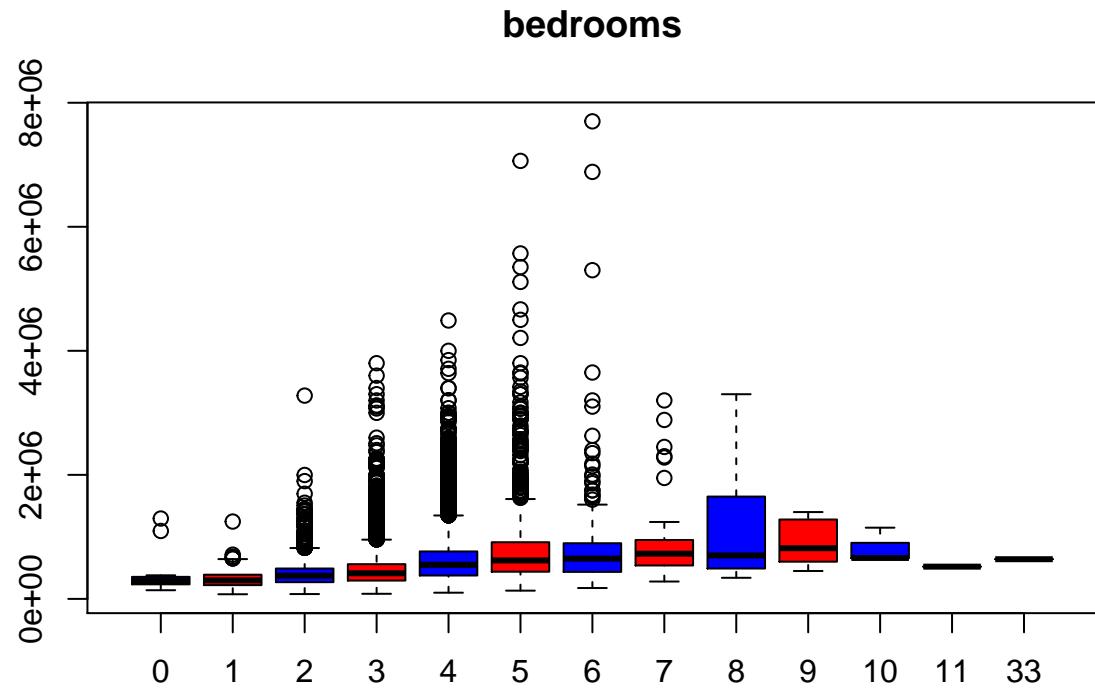
```
## long          0.41      -0.07   -0.56  -0.14   1.00      0.33
## sqft_living15 0.33       0.00   -0.28   0.05   0.33      1.00
## sqft_lot15    0.07       0.01   -0.15  -0.09   0.25      0.18
##                 sqft_lot15
## price          0.08
## bedrooms       0.03
## bathrooms      0.09
## sqft_living    0.18
## sqft_lot       0.72
## floors         -0.01
## waterfront     0.03
## view           0.07
## condition      0.00
## grade          0.12
## sqft_above     0.19
## sqft_basement  0.02
## yr_built       0.07
## yr_renovated   0.01
## zipcode        -0.15
## lat            -0.09
## long           0.25
## sqft_living15  0.18
## sqft_lot15     1.00
```

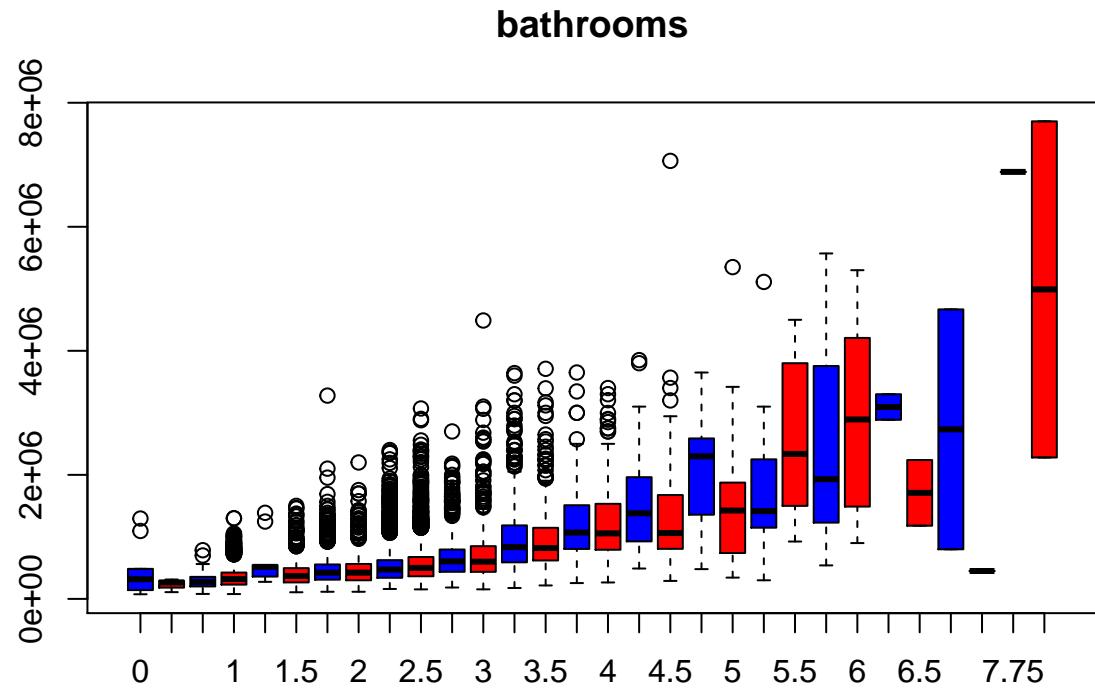
## Including Plots

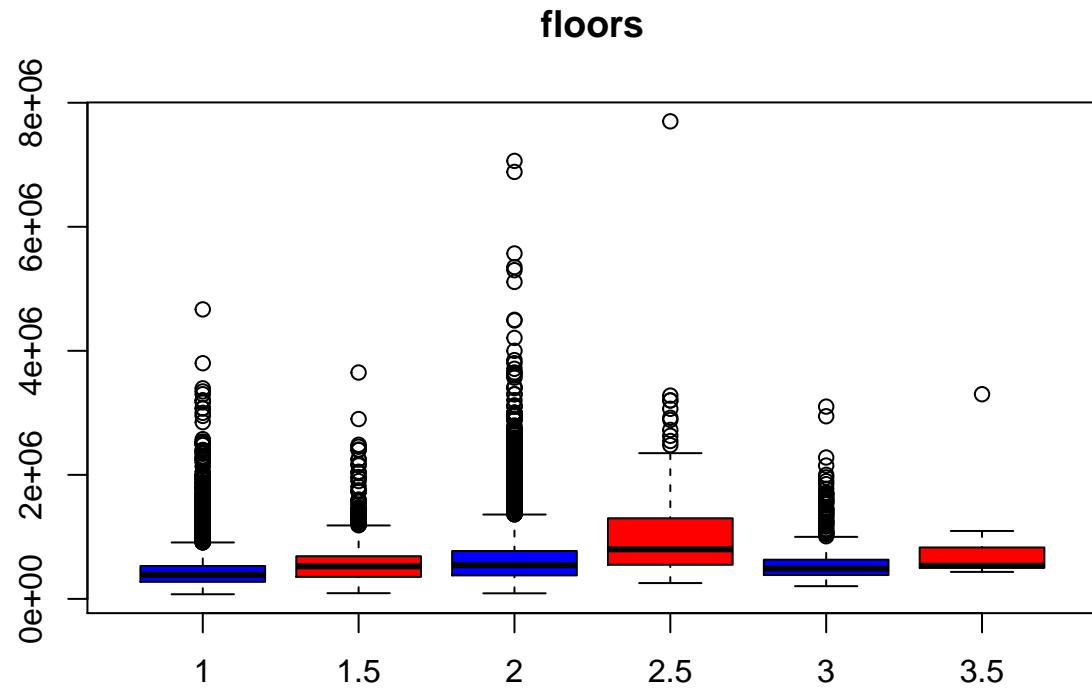
You can also embed plots, for example:



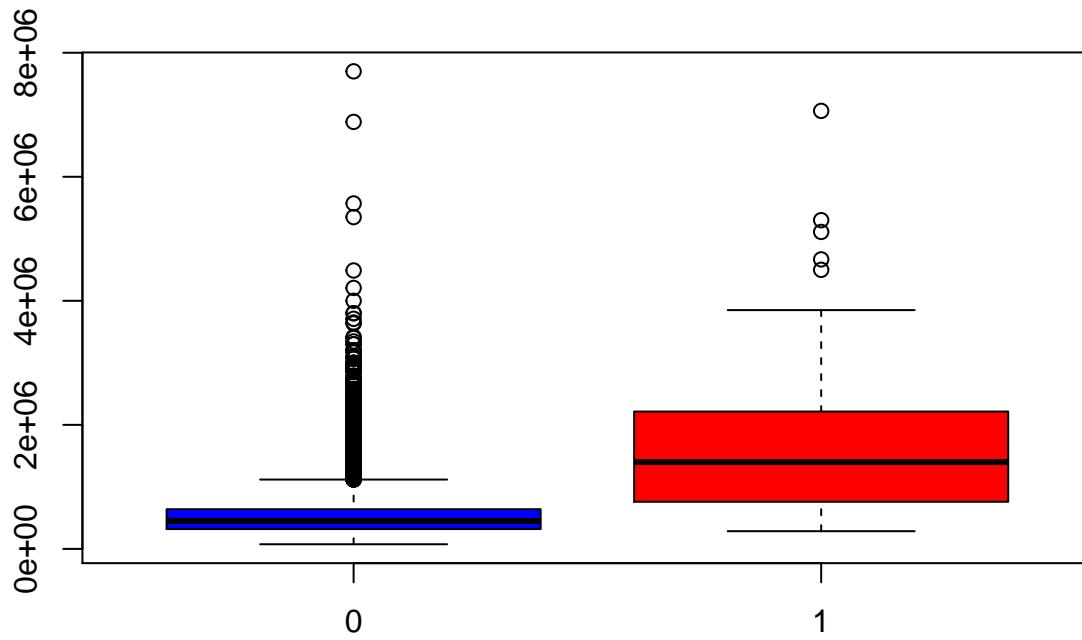




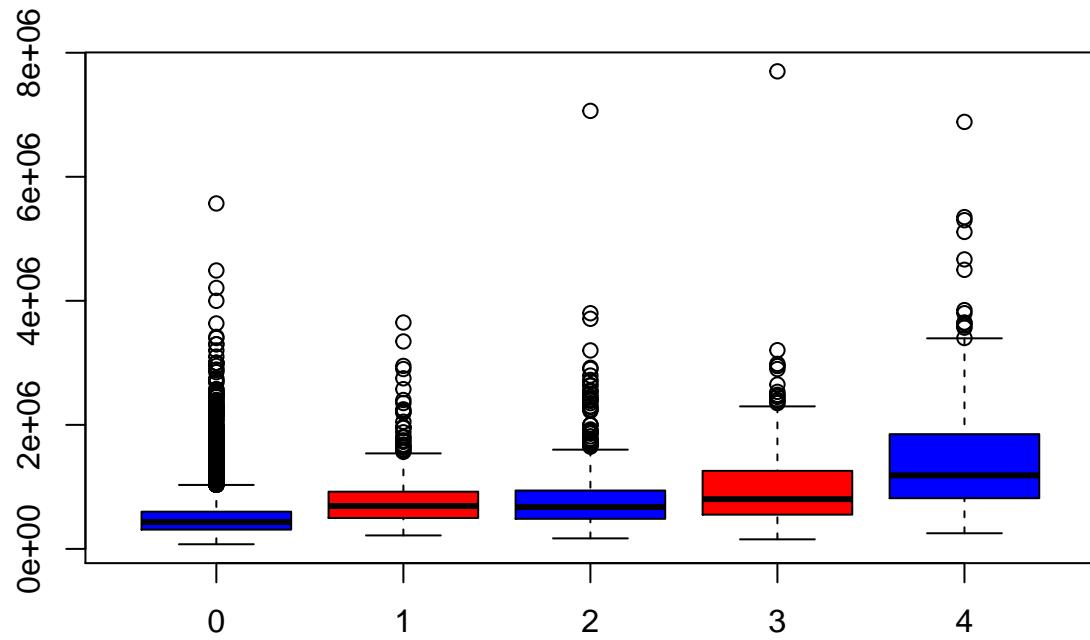


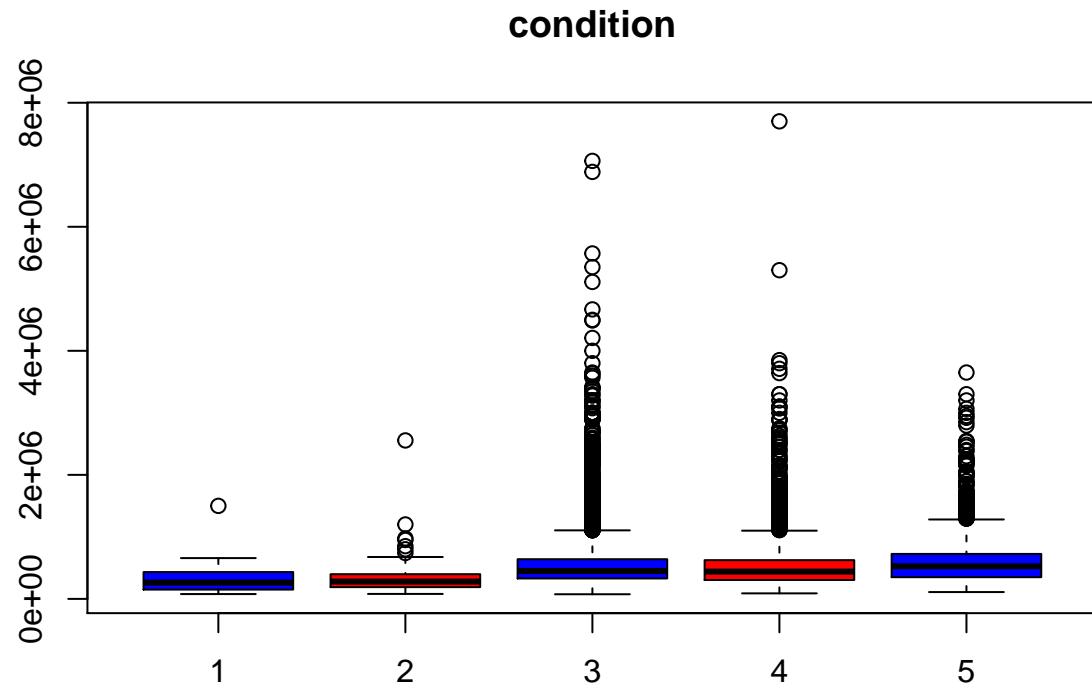


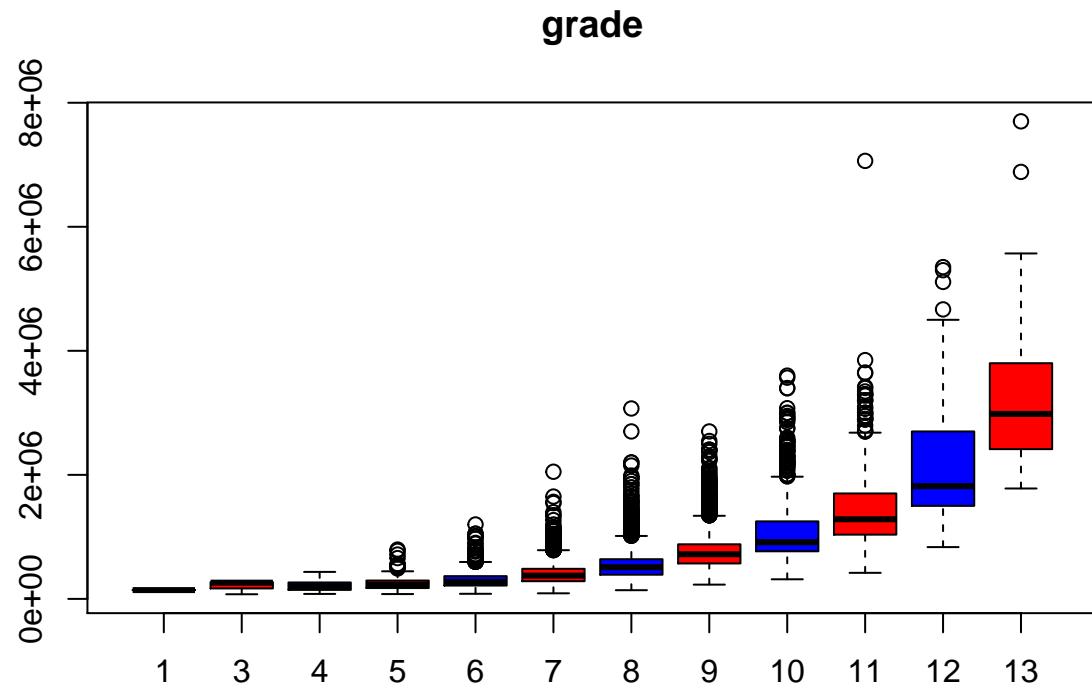
**waterfront**

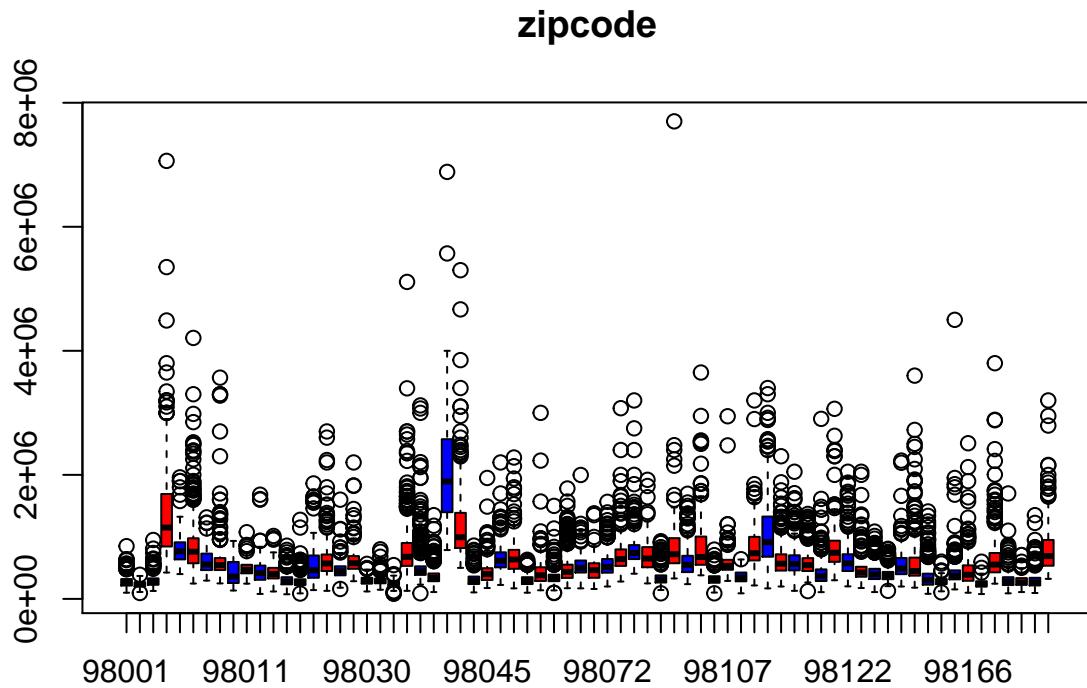


**view**









Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.