### PM2.5 Forecasting

Runze Yan 2018/11/23

#### Load data

```
# Explanations for each variable
# No: row number
# year: year of data in this row
# month: month of data in this row
# day: day of data in this row
# hour: hour of data in this row
# pm2.5: PM2.5 concentration (ug/m^3)
# DEWP: Dew Point (°F)
# TEMP: Temperature (°F)
# PRES: Pressure (hPa)
# cbwd: Combined wind direction
# Iws: Cumulated wind speed (m/s)
# Is: Cumulated hours of snow
# Ir: Cumulated hours of rain
#create new data frame
setwd(datadir)
prsa <- read.csv('PRSA_data_2010.1.1-2014.12.31.csv', row.names = 1, colClasses = c("pm2.5"=
"numeric", "DEWP"="numeric"))
summary(prsa)
```

```
##
         year
                       month
                                          day
                                                           hour
##
    Min.
           :2010
                   Min.
                           : 1.000
                                     Min.
                                            : 1.00
                                                      Min.
                                                             : 0.00
    1st Qu.:2011
                   1st Qu.: 4.000
                                     1st Qu.: 8.00
                                                      1st Qu.: 5.75
   Median :2012
                   Median : 7.000
                                     Median :16.00
                                                      Median :11.50
   Mean
           :2012
                   Mean
                          : 6.524
                                     Mean
                                            :15.73
                                                      Mean
                                                             :11.50
##
##
    3rd Ou.:2013
                   3rd Qu.:10.000
                                     3rd Qu.:23.00
                                                      3rd Qu.:17.25
           :2014
                           :12.000
                                            :31.00
                                                             :23.00
##
                   Max.
                                                     Max.
##
##
        pm2.5
                          DEWP
                                             TEMP
                                                               PRES
##
   Min.
           : 0.00
                     Min.
                             :-40.000
                                        Min.
                                               :-19.00
                                                          Min.
                                                                 : 991
##
    1st Qu.: 29.00
                     1st Ou.:-10.000
                                        1st Ou.: 2.00
                                                          1st Qu.:1008
   Median : 72.00
                     Median : 2.000
                                        Median : 14.00
##
                                                          Median:1016
           : 98.61
                           : 1.817
                                               : 12.45
                                                          Mean
                     Mean
    3rd Qu.:137.00
                     3rd Qu.: 15.000
                                        3rd Qu.: 23.00
##
                                                          3rd Qu.:1025
##
   Max.
           :994.00
                           : 28.000
                                               : 42.00
                                                                 :1046
                     Max.
                                        Max.
                                                          Max.
##
   NA's
           :2067
##
    cbwd
                    Iws
                                       Ιs
                                                           Ir
    cv: 9387
               Min.
                    : 0.45
                                       : 0.00000
                                                            : 0.0000
   NE: 4997
               1st Ou.: 1.79
                                                     1st Ou.: 0.0000
                                 1st Ou.: 0.00000
   NW:14150
               Median: 5.37
                                                    Median : 0.0000
##
                                 Median : 0.00000
                     : 23.89
                                        : 0.05273
                                                            : 0.1949
##
    SE:15290
               Mean
                                 Mean
                                                    Mean
##
               3rd Qu.: 21.91
                                 3rd Ou.: 0.00000
                                                     3rd Ou.: 0.0000
##
               Max.
                     :585.60
                                 Max.
                                      :27.00000
                                                     Max.
                                                            :36.0000
##
```

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#### Change "cv"" in cbwd to "SW"

```
levels(prsa$cbwd)[1] <- "SW"
# sort it to NE, NW, SE, SW
prsa$cbwd <- factor(prsa$cbwd, levels = c("NE", "NW", "SE", "SW"))
summary(prsa$cbwd)</pre>
```

```
## NE NW SE SW
## 4997 14150 15290 9387
```

# Create datetime from year, month, day and hour

#### Sort the dataframe by datetime

```
##
         year
                        month
                                           day
                                                            hour
##
   Min.
           :2010
                   Min.
                           : 1.000
                                      Min.
                                             : 1.00
                                                      Min.
                                                              : 0.00
                                      1st Qu.: 8.00
##
    1st Qu.:2011
                   1st Qu.: 4.000
                                                       1st Qu.: 5.75
    Median :2012
                   Median : 7.000
                                      Median :16.00
                                                      Median :11.50
##
    Mean
           :2012
                   Mean
                           : 6.524
                                      Mean
                                             :15.73
                                                              :11.50
    3rd Qu.:2013
##
                    3rd Qu.:10.000
                                      3rd Qu.:23.00
                                                       3rd Qu.:17.25
           :2014
    Max.
                   Max.
                           :12.000
                                      Max.
                                             :31.00
                                                      Max.
                                                              :23.00
##
##
                           DEWP
                                              TEMP
##
        pm2.5
                                                                PRES
    Min.
           : 0.00
                      Min.
                             :-40.000
                                         Min.
                                                :-19.00
                                                           Min.
                                                                  : 991
##
                                                           1st Qu.:1008
##
    1st Qu.: 29.00
                      1st Qu.:-10.000
                                         1st Qu.: 2.00
   Median : 72.00
                      Median : 2.000
                                         Median : 14.00
                                                           Median :1016
##
##
   Mean
          : 98.61
                      Mean
                            : 1.817
                                         Mean
                                               : 12.45
                                                           Mean
                                                                  :1016
##
    3rd Qu.:137.00
                      3rd Qu.: 15.000
                                         3rd Qu.: 23.00
                                                           3rd Qu.:1025
           :994.00
                            : 28.000
                                                : 42.00
##
    Max.
                      Max.
                                         Max.
                                                           Max.
                                                                  :1046
    NA's
##
           :2067
    cbwd
##
                     Tws
                                        Ts
                                                            Tr
   NE: 4997
               Min.
                       : 0.45
                                         : 0.00000
                                                             : 0.0000
##
                                 Min.
                                                     Min.
##
    NW:14150
               1st Qu.:
                          1.79
                                 1st Qu.: 0.00000
                                                     1st Qu.: 0.0000
    SE:15290
               Median :
                         5.37
                                 Median : 0.00000
                                                     Median : 0.0000
##
##
    SW: 9387
               Mean
                       : 23.89
                                 Mean
                                         : 0.05273
                                                             : 0.1949
               3rd Qu.: 21.91
                                 3rd Qu.: 0.00000
                                                      3rd Qu.: 0.0000
##
##
                       :585.60
                                         :27.00000
                                                             :36.0000
               Max.
                                 Max.
                                                     Max.
##
         date
                             datetime
##
    Min.
           :2010-01-01
                          Min.
                                  :2010-01-01 00:00:00
    1st Qu.:2011-04-02
                          1st Qu.:2011-04-02 11:45:00
##
   Median :2012-07-01
##
                          Median :2012-07-01 23:30:00
           :2012-07-01
                                  :2012-07-01 23:30:00
##
    Mean
                          Mean
    3rd Ou.:2013-10-01
##
                          3rd Ou.:2013-10-01 11:15:00
##
    Max.
           :2014-12-31
                          Max.
                                  :2014-12-31 23:00:00
##
```

#### Plot the distribution of each variable

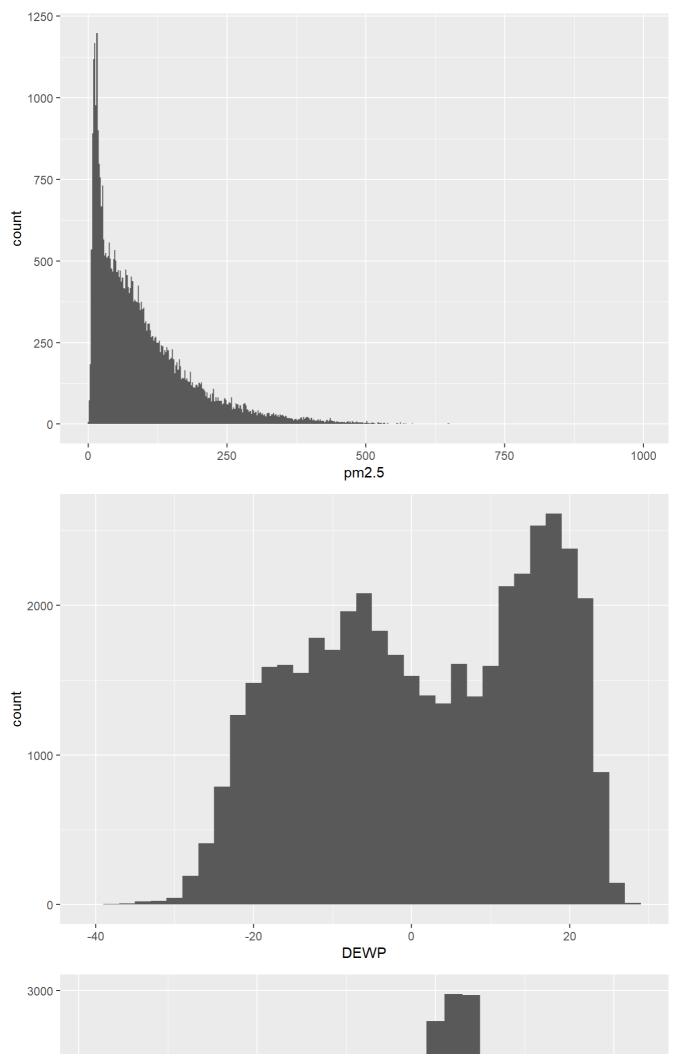
```
which(colnames(prsa) == "pm2.5")

## [1] 5

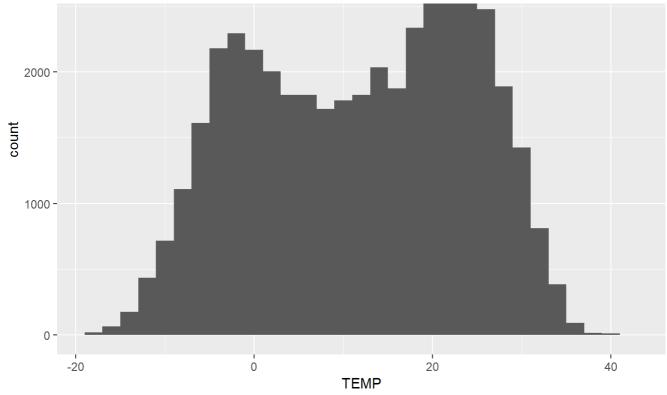
which(colnames(prsa) == "Ir")

## [1] 12
```

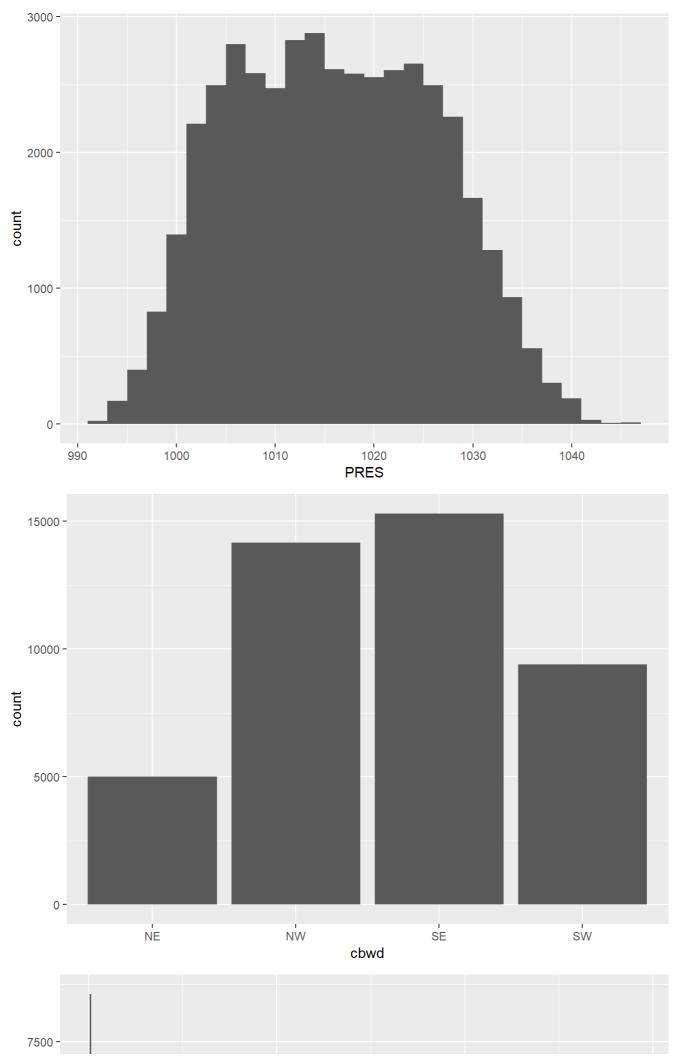
## Warning: Removed 2067 rows containing non-finite values (stat\_bin).

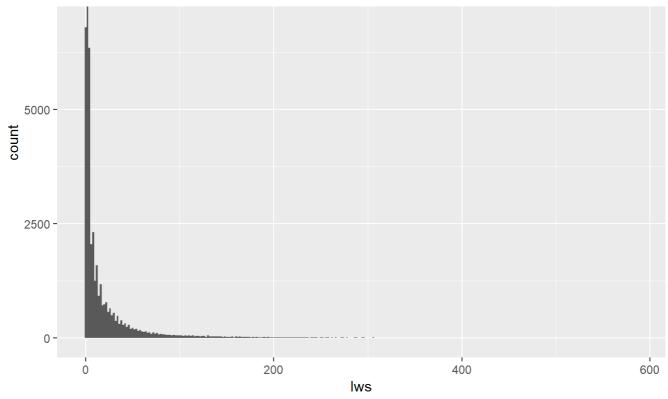


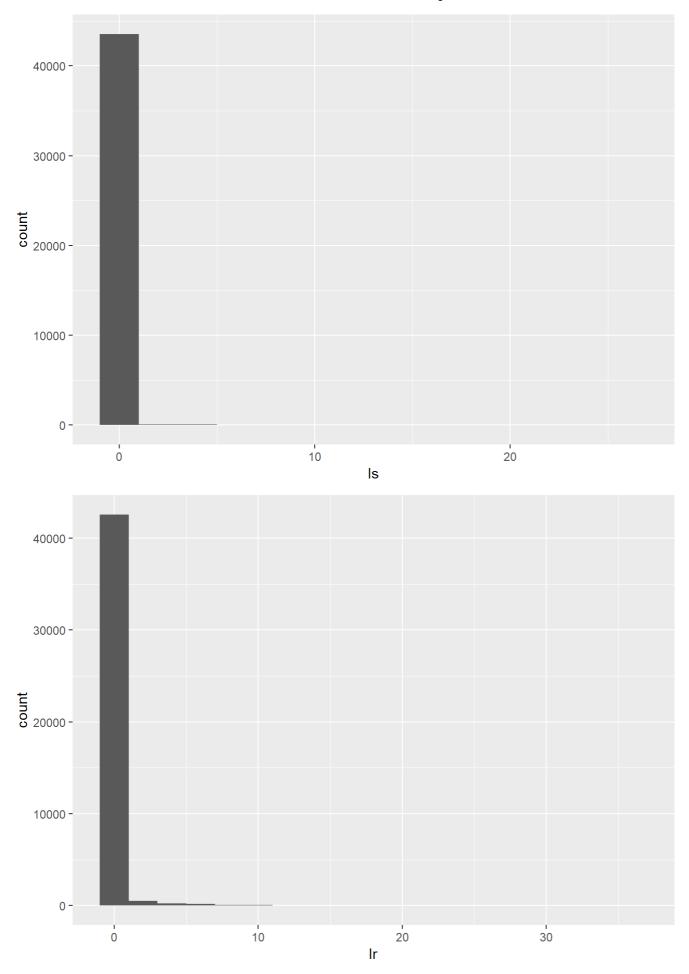




## Warning: Ignoring unknown parameters: binwidth, bins, pad

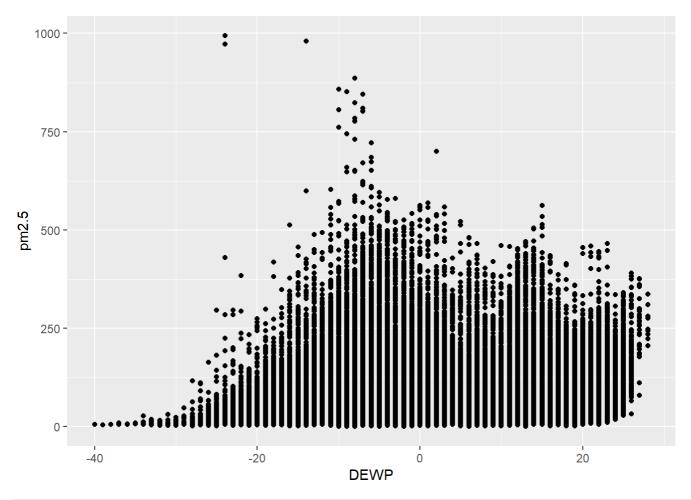






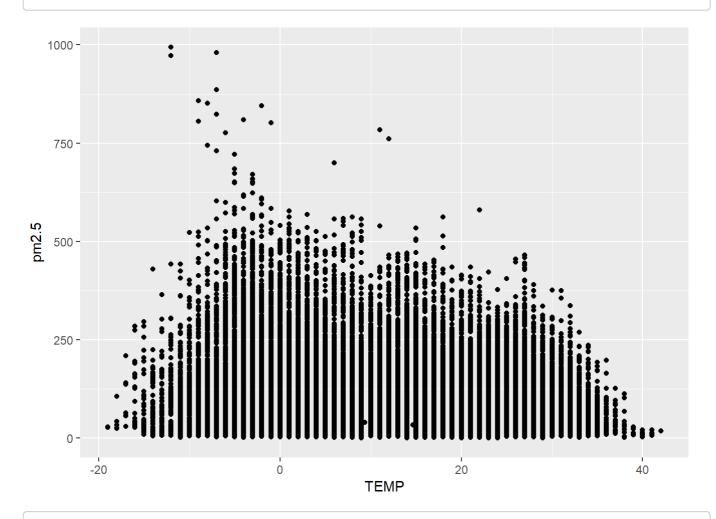
## Correlations between pm2.5 and other variables

```
## [1] "pm2.5 & DEWP"
## [1] 0.1714233
```



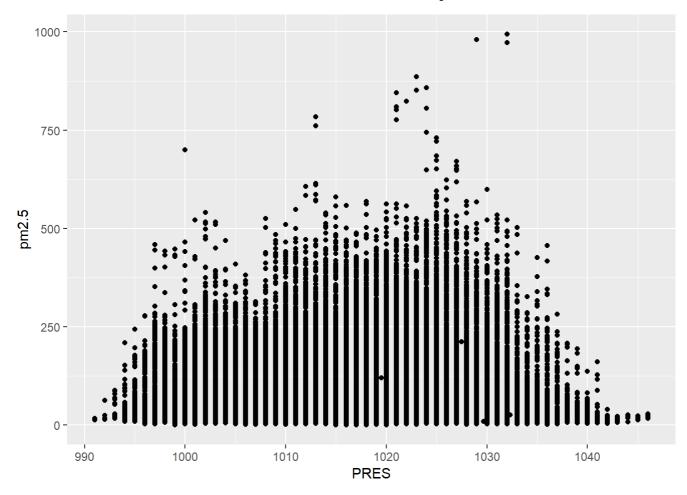
```
## [1] "pm2.5 & TEMP"
## [1] -0.090534
```

## Warning: Removed 2067 rows containing missing values (geom\_point).

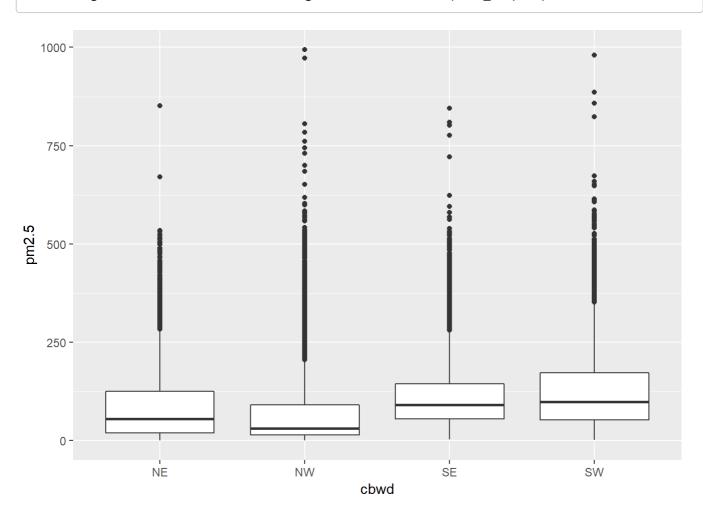


## [1] "pm2.5 & PRES"

## [1] -0.04728231

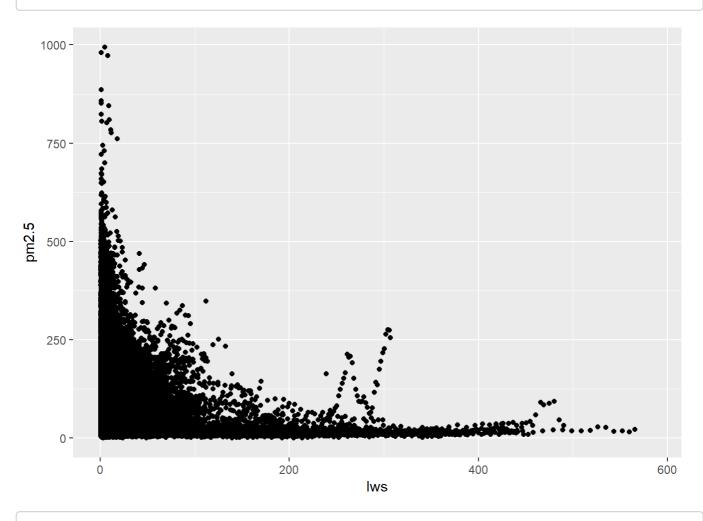


## Warning: Removed 2067 rows containing non-finite values (stat\_boxplot).

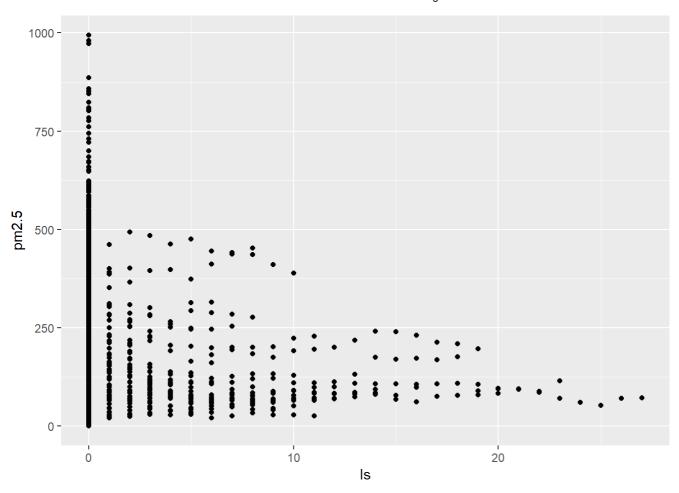


```
## [1] "pm2.5 & Iws"
## [1] -0.2477844
```

## Warning: Removed 2067 rows containing missing values (geom\_point).

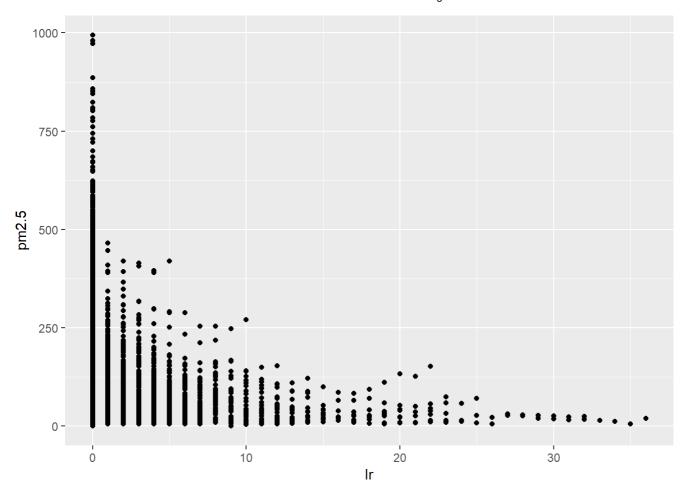


```
## [1] "pm2.5 & Is"
## [1] 0.01926558
```



```
## [1] "pm2.5 & Ir"
## [1] -0.05136871
```

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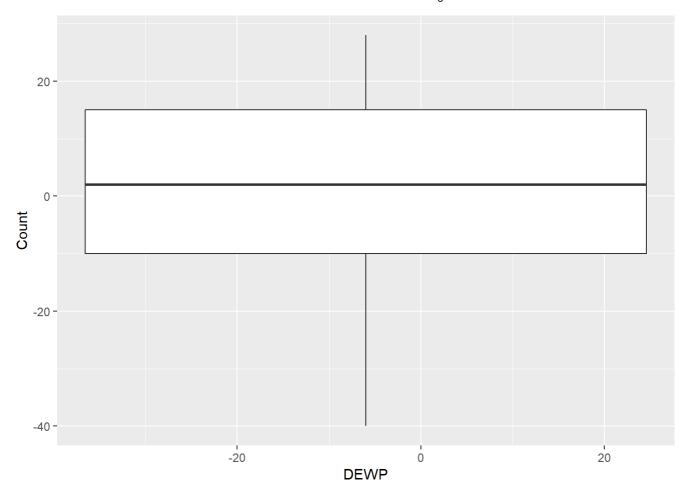


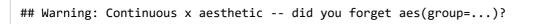
dewp has positive correlation, whereas lws, ls and lr have negative correlation

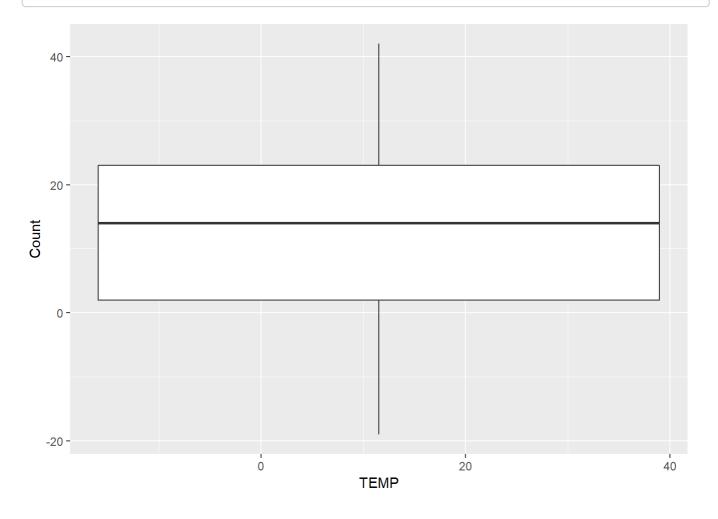
Why is there an N-shape in the plot of pm2.5 vs lws? Are they outliers?

#### Boxplot of each variable

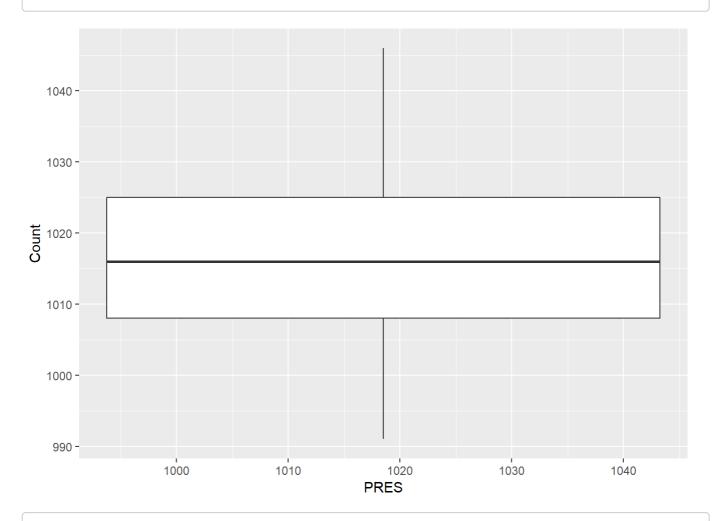
```
## Warning: Continuous x aesthetic -- did you forget aes(group=...)?
```



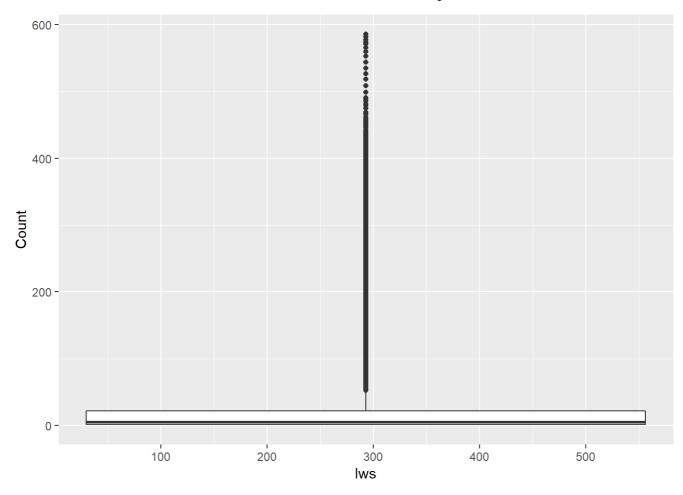




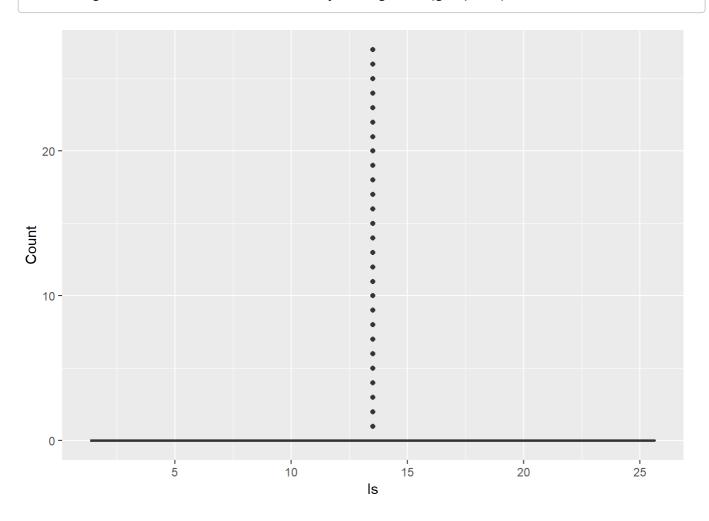
## Warning: Continuous x aesthetic -- did you forget aes(group=...)?



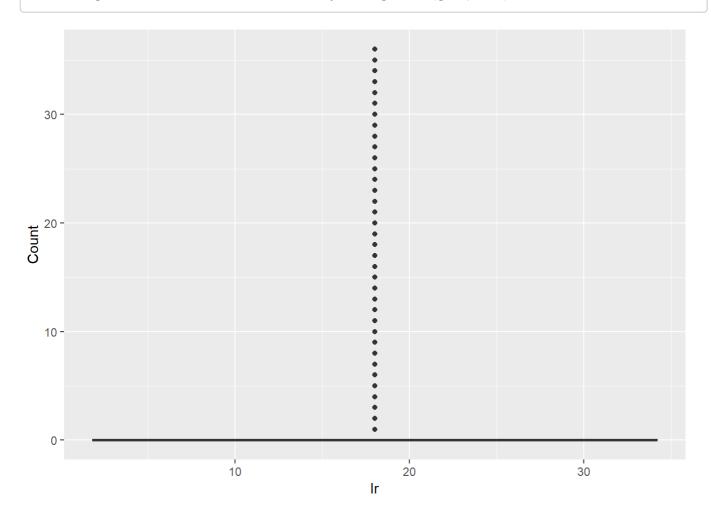
## Warning: Continuous x aesthetic -- did you forget aes(group=...)?



## Warning: Continuous x aesthetic -- did you forget aes(group=...)?



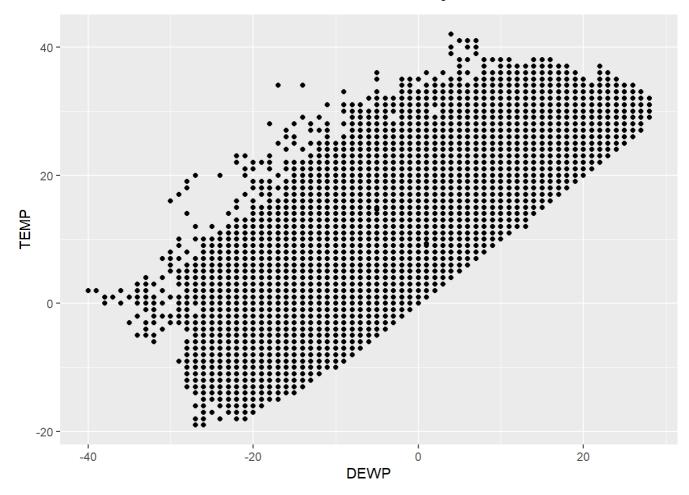
## Warning: Continuous x aesthetic -- did you forget aes(group=...)?



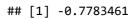
## lws has many outliers

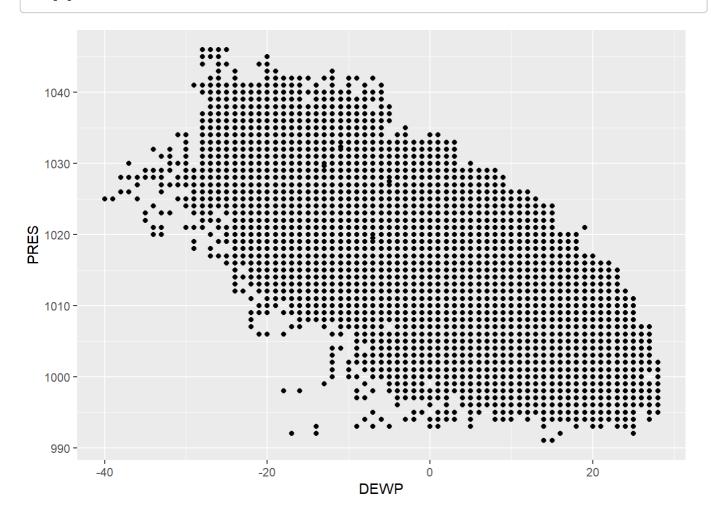
# Are there any correlations between those weather variables?

```
## [1] "DEWP & TEMP"
## [1] 0.8246331
```

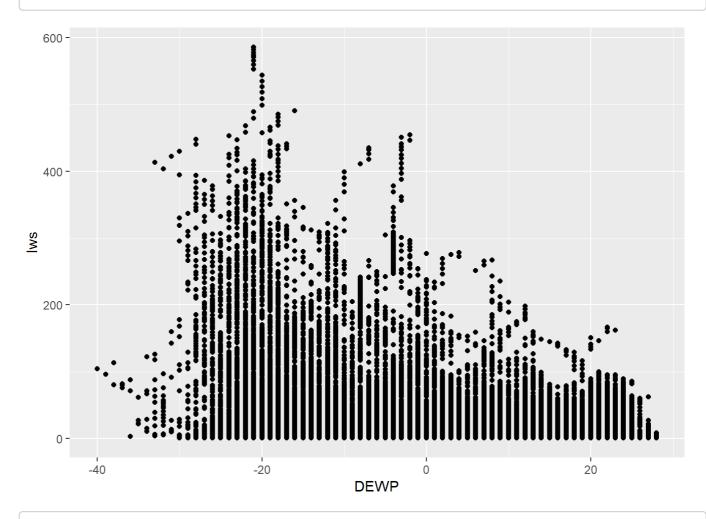




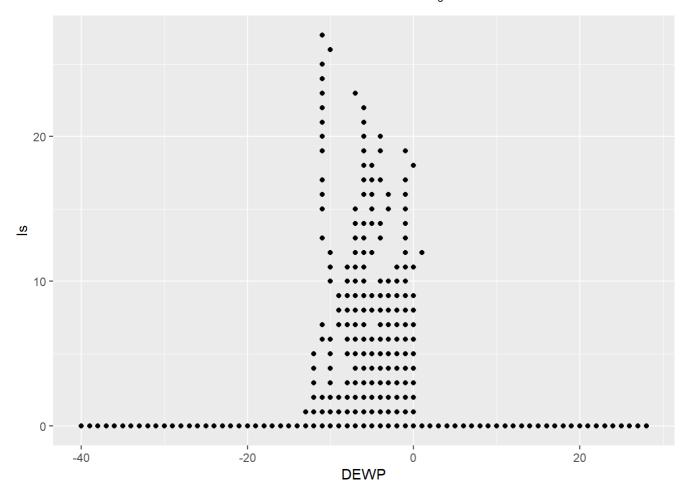




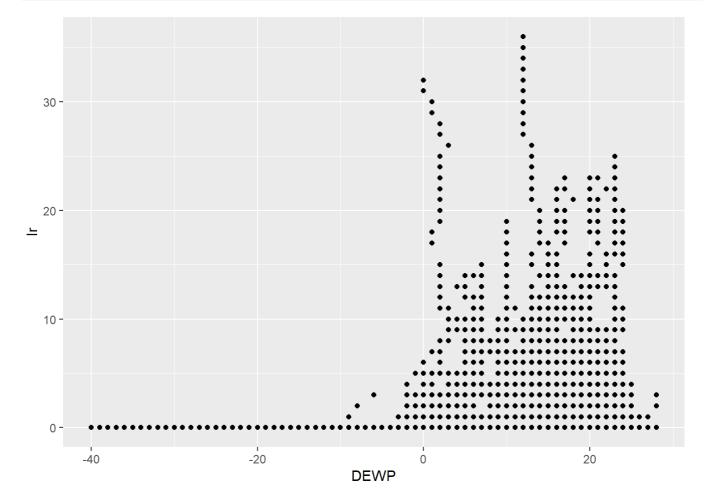
```
## [1] "DEWP & Iws"
## [1] -0.2963987
```



## [1] "DEWP & Is"

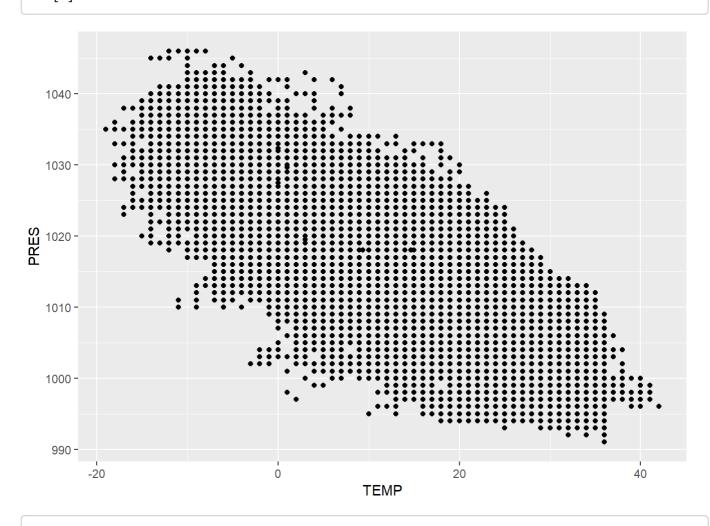






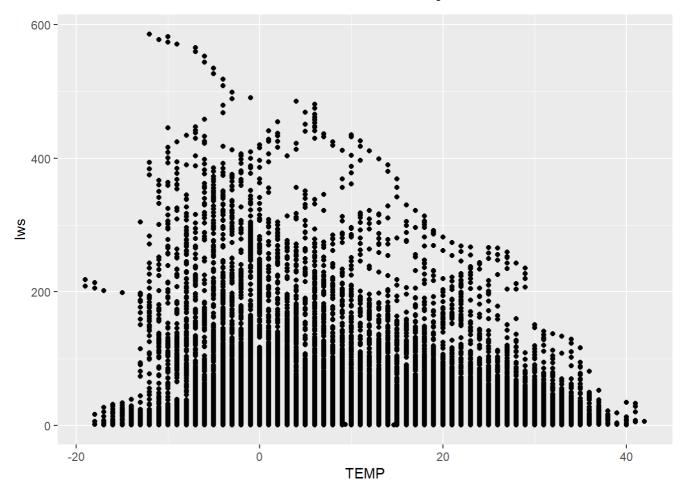
```
## [1] "TEMP & PRES"
```

## [1] -0.8266904

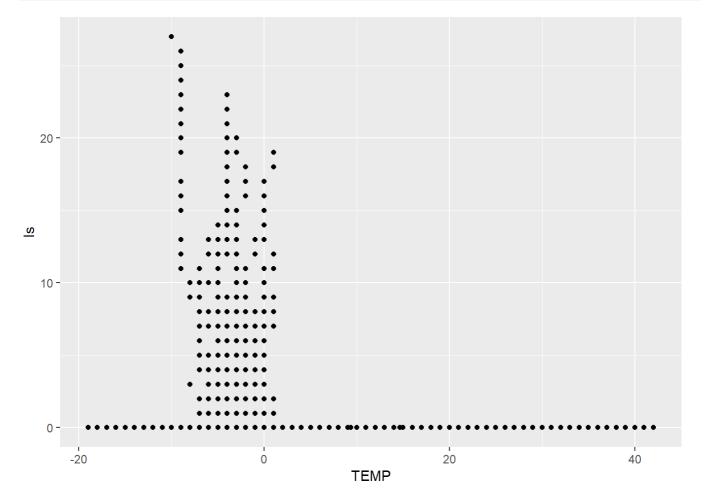


```
## [1] "TEMP & Iws"
```

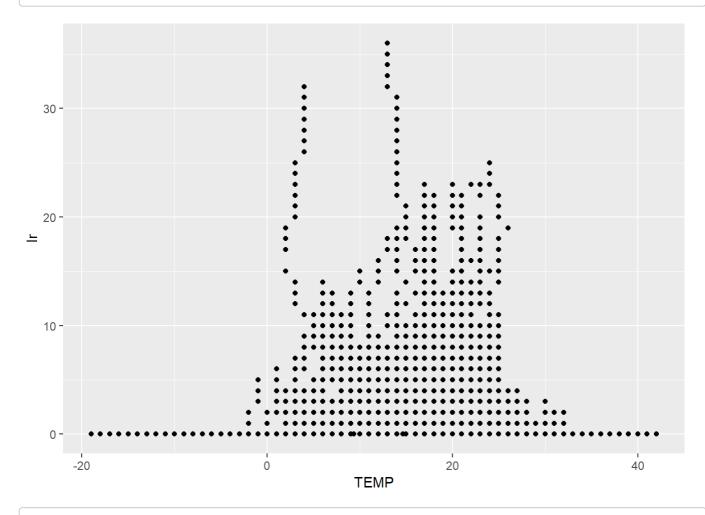
## [1] -0.1546228







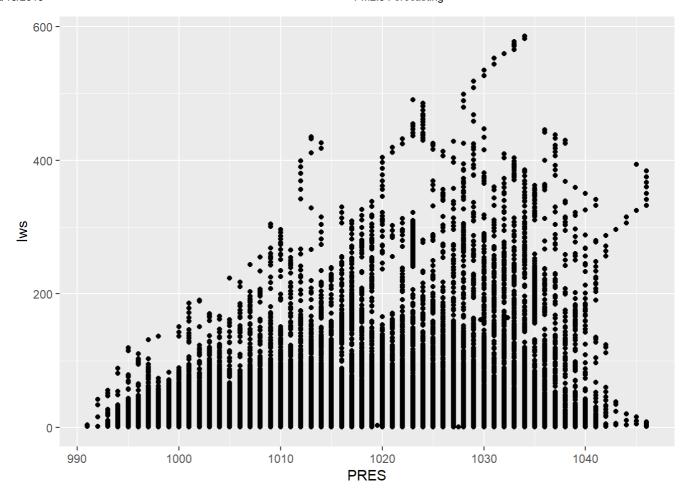
```
## [1] "TEMP & Ir"
## [1] 0.04912147
```

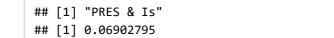


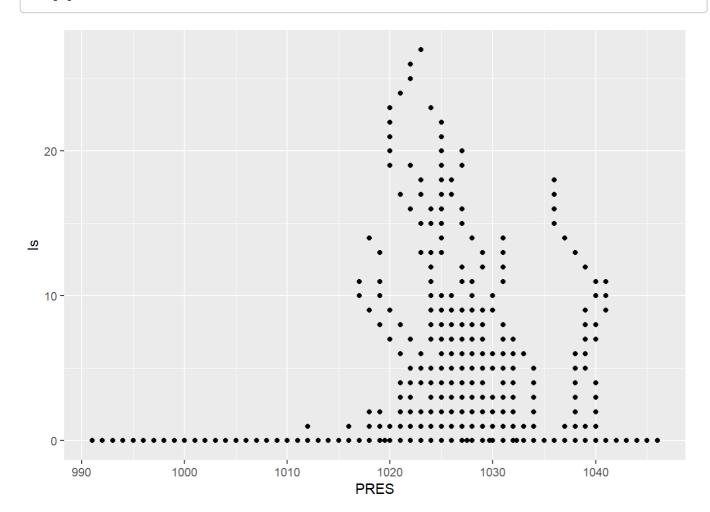
## [1] "PRES & Iws"

## [1] 0.1853547

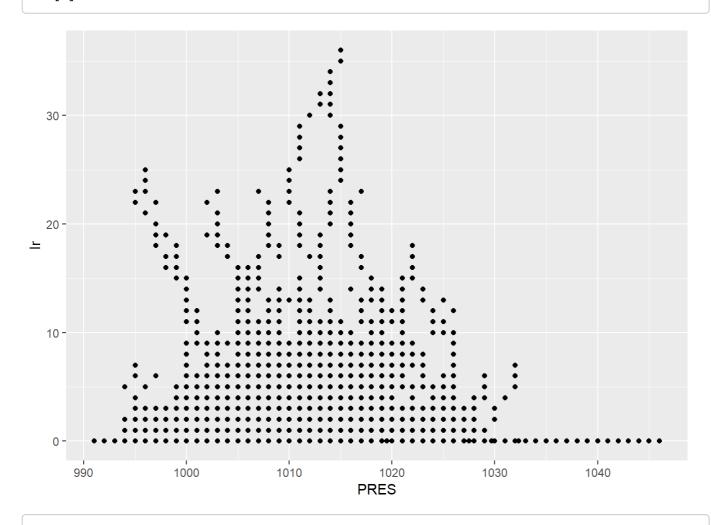
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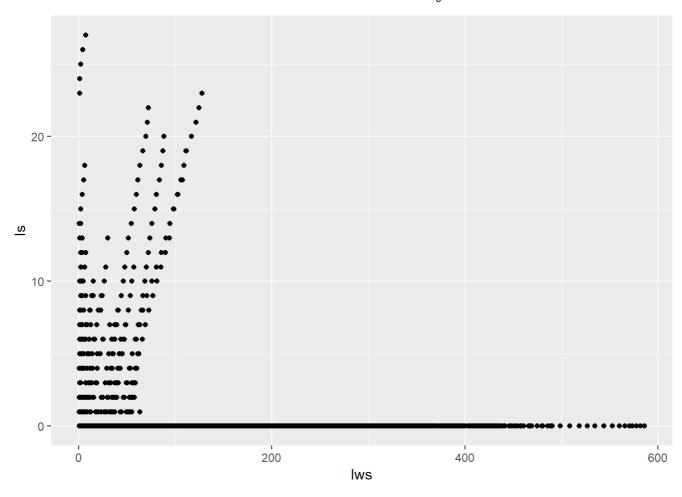




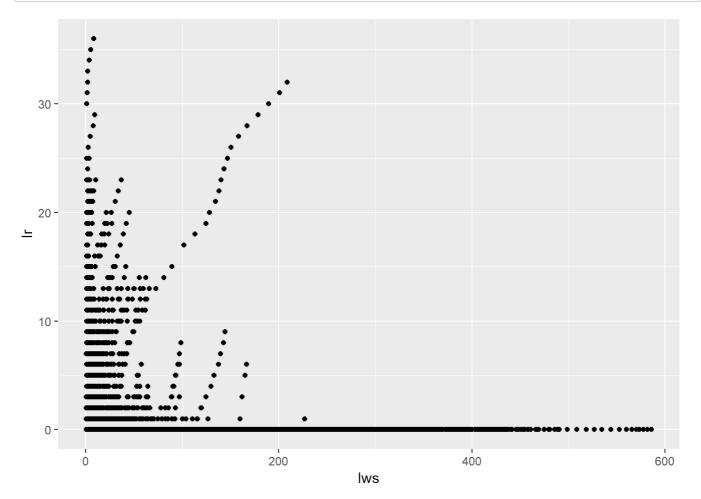
```
## [1] "PRES & Ir"
## [1] -0.07984317
```



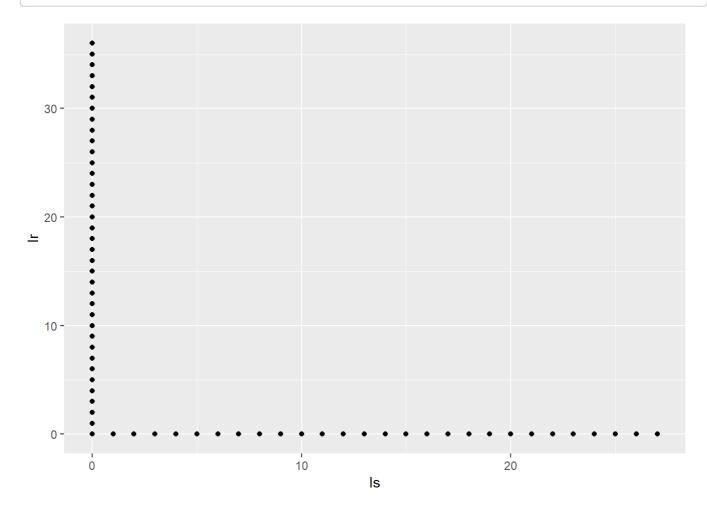
## [1] "Iws & Is" ## [1] 0.02188285







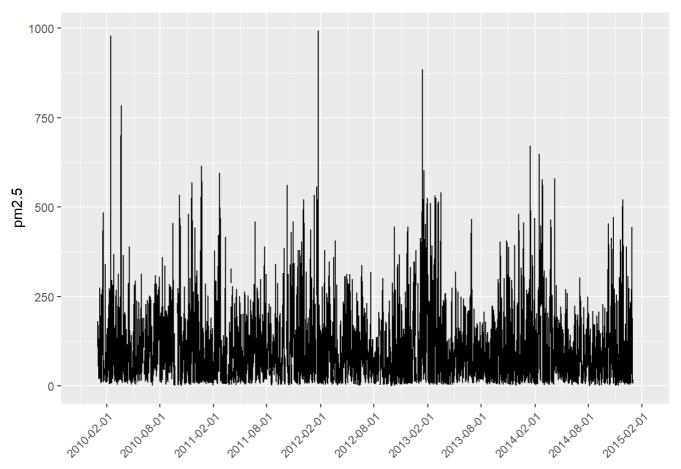
```
## [1] "Is & Ir"
## [1] -0.009547625
```



dewp and temp have positive correlation dewp and pres have negative correlation temp and pres have negative correlation plot time series of pm2.5

```
ggplot(prsa, aes(datetime, pm2.5)) +
  geom_line() +
  scale_x_datetime(date_breaks = "6 months", limits = c(as.POSIXct("2009-12-01"), as.POSIXct(
"2015-01-31"))) +
  xlab("") +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

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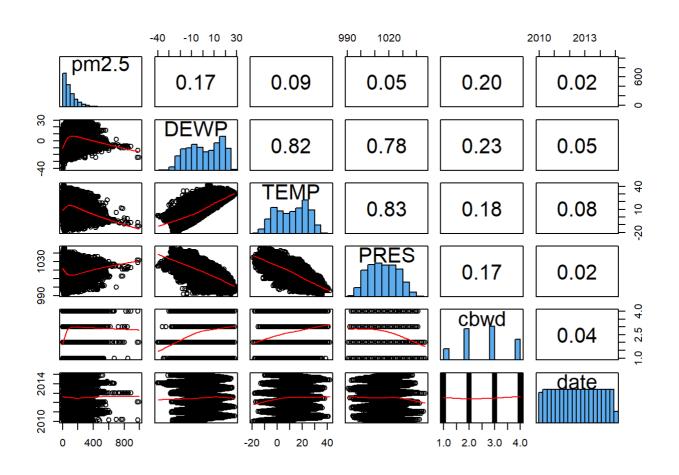
# From the plots above, we can get that PM2.5 is highly correlated with Dew Point, Temperature, Pressure and cbwd

#### Build the new dataframe

prsa.omit <- prsa[,c(5,6,7,8,9,13)]
summary(prsa.omit)</pre>

```
##
                           DEWP
                                                                 PRES
        pm2.5
                                              TEMP
           : 0.00
                             :-40.000
                                                 :-19.00
##
    Min.
                      Min.
                                         Min.
                                                           Min.
                                                                  : 991
    1st Qu.: 29.00
##
                      1st Qu.:-10.000
                                         1st Qu.: 2.00
                                                           1st Qu.:1008
    Median : 72.00
                      Median :
                                2.000
                                         Median : 14.00
                                                           Median :1016
##
           : 98.61
                      Mean
                             : 1.817
                                                : 12.45
                                                           Mean
                                                                   :1016
    3rd Qu.:137.00
                      3rd Qu.: 15.000
                                         3rd Qu.: 23.00
                                                           3rd Qu.:1025
           :994.00
                             : 28.000
                                                : 42.00
##
    Max.
                      Max.
                                         Max.
                                                           Max.
                                                                   :1046
##
    NA's
           :2067
    cbwd
##
                     date
    NE: 4997
               Min.
                       :2010-01-01
    NW:14150
               1st Qu.:2011-04-02
    SE:15290
               Median :2012-07-01
##
##
    SW: 9387
               Mean
                       :2012-07-01
##
               3rd Qu.:2013-10-01
##
                       :2014-12-31
               Max.
##
```

uva.pairs(prsa.omit)



## Analysis of the missing data(NAs)

prsa.omit[!complete.cases(prsa.omit),]

##		pm2.5	DEWP	TEMP	PRES	cbwd	date
##	1	NA	-21	-11	1021	NW	2010-01-01
##	2	NA	-21	-12	1020	NW	2010-01-01
##	3	NA	-21	-11	1019	NW	2010-01-01
##	4	NA	-21	-14	1019	NW	2010-01-01
##	5	NA	-20	-12	1018	NW	2010-01-01
##	6	NA	-19	-10	1017	NW	2010-01-01
##	7	NA	-19	-9	1017	NW	2010-01-01
##	8	NA	-19	-9	1017	NW	2010-01-01
##	9	NA	-19	-9	1017	NW	2010-01-01
##	10	NA	-20	-8	1017	NW	2010-01-01
##	11	NA NA	-19	-7	1017	NW	2010 01 01
##	12	NA	-18	-5	1017	NW	2010-01-01
##	13	NA NA	-19	-5	1017	NW	2010-01-01
##	14	NA NA	-18	-3	1015	NW	2010-01-01
##	15	NA	-18	-2	1014	NW	2010-01-01
##	16	NA	-18	-1	1014	SW	2010-01-01
##	17	NA	-19	-2	1015	NW	2010-01-01
##	18	NA	-18	-3	1015	NW	2010-01-01
##	19	NA	-18	-5	1016	NE	2010-01-01
##	20	NA	-17	-4	1017	NW	2010-01-01
##	21	NA	-17	-5	1017	SW	2010-01-01
##	22	NA	-17	-5	1018	NW	2010-01-01
##	23	NA	-17	-5	1018	NW	2010-01-01
##	24	NA	-17	-5	1020	SW	2010-01-01
##	546	NA	-18	2	1024	NW	2010-01-23
##	547	NA	-18	1	1024	NW	2010-01-23
##	548	NA	-17	0	1024	NW	2010-01-23
##	549	NA	-18	0	1024	SE	2010-01-23
##	550	NA	-15	-3	1024	SW	2010-01-23
##	551	NA	-16	0	1023	NW	2010-01-23
##	552	NA	-16	0	1023	NW	2010-01-23
##	553	NA	-15	-2	1022	NW	2010-01-24
##	554	NA	-14	-7		SW	2010-01-24
##	555	NA	-14	-8	1021	NW	2010-01-24
##	556	NA	-16	-11	1021	NW	2010-01-24
##	557	NA	-14	-9	1019	NW	2010-01-24
##	558	NA	-15	-10	1019	SW	2010-01-24
##	559	NA	-16	-12	1019	SE	2010-01-24
##	560	NA	-15	-12	1019	SW	2010-01-24
##	561	NA	-16	-13	1019	NE	2010-01-24
##	562	NA	-13	-7	1020	SW	2010-01-24
##	563	NA	-12	-4	1019	SW	2010-01-24
##	564	NA	-13	0	1019	SW	2010-01-24
##	565	NA	-16	4	1018	NW	2010-01-24
##	566	NA	-19	5	1017	NW	2010-01-24
##	567	NA	-18	5	1017	NW	2010-01-24
##	568	NA	-19	5	1017	NW	2010-01-24
##	569	NA	-20	5	1018	NW	2010-01-24
##	570	NA	-19	3	1020	NW	2010-01-24
##	571	NA	-18	1	1023	NW	2010-01-24
##	572	NA	-20	-1	1027	NW	2010-01-24
##	573	NA	-20	-2	1028	NW	2010-01-24
##	574	NA	-21	-3	1029	NW	2010-01-24
##	575	NA	-25	-4	1030	NW	2010-01-24
##	576	NA	-26	-5	1031	NW	2010-01-24
##	577	NA	-25	-5	1031	NW	2010-01-25

##	578	NA	-25	-6	1031	NW	2010-01-25
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##	39689	NA	10	34	1000	SE	2014-07-12
##	39690	NA	10	34	1000	SE	2014-07-12
##	39924	NA	17	29	1007	NE	2014-07-22
##	39925	NA	16	29	1007		2014-07-22
##	40577	NA	18	30	1010	SE	2014-08-18
##	40578	NA	18		1010		2014-08-18
##	40625	NA	17	33	1006	SE	2014-08-20
##	40626	NA	18		1006		2014-08-20
##	40627	NA	18	31	1006		2014-08-20
##	40628	NA	18	29	1007	SE	2014-08-20
	40629	NA	19	28	1007		2014-08-20
##	40630	NA	19	28	1007		2014-08-20
	40631	NA	19		1008		2014-08-20
##	40632	NA	19	27			2014-08-20
	40633	NA	19		1008		2014-08-21
	41264	NA	9		1019		2014-09-16
	41277	NA	14		1018		2014-09-16
	41348	NA	17		1010		2014-09-19
	41441	NA	17	18	1016		2014-09-23
	41444	NA	18		1016		2014-09-23
	42089	NA	13		1018		2014-10-20
	42491	NA			1032		2014-11-06
	42666	NA			1022		2014-11-13
	42838	NA			1019		2014-11-20
""	330		_	U		146	

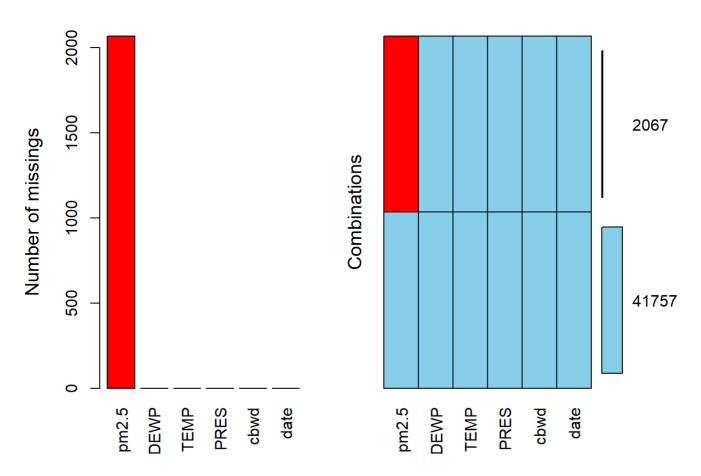
```
## 42839
                  -1
                        0 1020
            NA
                                  SW 2014-11-20
## 42840
                   0
                        0 1020
            NA
                                  SW 2014-11-20
                  -2
## 42841
            NA
                       -2 1020
                                  NW 2014-11-21
## 42842
            NA
                  -3
                       -2 1020
                                  NW 2014-11-21
## 42843
                  -2
                       -1 1020
                                  NW 2014-11-21
            NA
## 42844
            NA
                  -2
                       -1 1019
                                  NW 2014-11-21
## 42845
                  -1
                        1 1019
                                  SW 2014-11-21
            NA
## 42846
                  -2
                        0 1019
                                  NW 2014-11-21
            NA
## 42847
            NA
                  -2
                        0 1019
                                  NW 2014-11-21
## 42848
            NA
                  -3
                        0 1020
                                  NW 2014-11-21
## 42849
            NA
                  -3
                        0 1020
                                  SW 2014-11-21
## 43191
            NA
                 -22
                        4 1025
                                  NW 2014-12-05
## 43192
            NA
                 -22
                        3 1025
                                  NE 2014-12-05
## 43265
            NA
                 -13
                        3 1033
                                  SW 2014-12-08
## 43267
            NA
                 -11
                       -2 1034
                                  SE 2014-12-08
## 43268
            NA
                 -11
                       -2 1035
                                  SE 2014-12-08
## 43269
                 -11
                       -4 1036
                                  SE 2014-12-08
            NA
## 43270
            NA
                 -11
                       -5 1036
                                  SE 2014-12-08
## 43271
                 -11
                       -5 1036
                                  NE 2014-12-08
            NA
## 43274
            NA
                 -11
                       -4 1037
                                  SW 2014-12-09
## 43275
            NA
                 -10
                       -5 1036
                                  SE 2014-12-09
## 43276
                                  SW 2014-12-09
            NA
                 -10
                       -6 1037
## 43277
                       -7 1036
                                  SW 2014-12-09
            NA
                 -10
## 43278
                -11
                       -6 1036
                                  SW 2014-12-09
            NA
## 43279
            NA
                 -11
                       -7 1036
                                  SW 2014-12-09
## 43280
                 -11
                       -8 1036
                                  SW 2014-12-09
            NA
## 43281
            NA
                  -9
                       -6 1036
                                  SE 2014-12-09
## 43282
                       -5 1037
            NA
                  -8
                                  NE 2014-12-09
## 43283
                       -4 1037
                                  SW 2014-12-09
            NA
                  -8
## 43284
            NA
                  -8
                       -3 1036
                                  NE 2014-12-09
## 43545
            NA
                 -18
                       -4 1031
                                  NW 2014-12-20
## 43546
            NA
                 -17
                       -4 1031
                                  NW 2014-12-20
## 43547
            NA
                 -18
                       -2 1031
                                  NW 2014-12-20
## 43548
                 -17
                       -1 1031
                                  NW 2014-12-20
            NA
## 43549
            NA
                 -18
                        0 1030
                                  NW 2014-12-20
## 43550
                        1 1029
            NA
                 -19
                                  NW 2014-12-20
## 43551
            NA
                 -20
                        1 1029
                                  NW 2014-12-20
## 43552
            NA
                 -20
                        2 1028
                                  NW 2014-12-20
## 43553
            NA
                 -21
                        1 1028
                                  NW 2014-12-20
```

```
sum(is.na(prsa.omit))
```

```
## [1] 2067
```

```
aggr(prsa.omit,prop=F,numbers=T)
```

12/18/2018 PM2.5 Forecasting



## The total number of NAs is 2067 Impute the missing data

```
newdata <- prsa.omit
data <- mice(newdata, m=5, method = 'pmm', maxit = 10, seed = 1)</pre>
```

```
##
##
    iter imp variable
##
    1
        1 pm2.5
##
    1
        2
           pm2.5
##
    1
        3 pm2.5
##
    1
        4 pm2.5
##
    1
        5 pm2.5
##
    2
        1 pm2.5
##
    2
        2 pm2.5
    2
##
        3 pm2.5
##
    2
        4 pm2.5
##
    2
        5 pm2.5
    3
##
        1 pm2.5
##
    3
        2 pm2.5
##
    3
        3 pm2.5
    3
           pm2.5
##
        4
    3
        5 pm2.5
##
##
    4
        1 pm2.5
##
    4
        2 pm2.5
##
    4
        3 pm2.5
           pm2.5
##
    4
        4
##
        5 pm2.5
    4
##
    5
        1 pm2.5
##
    5
        2 pm2.5
##
    5
        3 pm2.5
    5
##
        4
           pm2.5
    5
        5 pm2.5
##
##
    6
        1 pm2.5
##
    6
        2 pm2.5
##
    6
        3 pm2.5
##
    6
        4
           pm2.5
##
    6
        5 pm2.5
    7
##
        1 pm2.5
    7
##
        2 pm2.5
##
    7
        3 pm2.5
    7
##
        4
           pm2.5
##
    7
        5 pm2.5
##
    8
        1 pm2.5
##
    8
        2 pm2.5
##
    8
        3 pm2.5
##
    8
        4
           pm2.5
##
    8
        5 pm2.5
##
    9
        1
           pm2.5
    9
##
        2 pm2.5
##
    9
        3 pm2.5
##
    9
        4 pm2.5
    9
##
        5 pm2.5
    10
##
         1 pm2.5
##
    10
         2 pm2.5
##
    10
         3 pm2.5
##
    10
         4
            pm2.5
##
    10
         5 pm2.5
```

```
data$imp
```

```
## $pm2.5
                             5
##
            1
                2
                    3
                         4
         345 129 170 148 101
## 1
## 2
          94 286 198 178 179
## 3
         149 119 114 255 328
## 4
         129 133 266 111 148
## 5
          39
              77
                   34
                      23
                            83
## 6
         189 121 113 124
                            33
          48 200
                   70
                       29 167
## 7
## 8
         153 138
                   21 175 132
## 9
         194 138
                   96 171
                            91
          86 129
                   82 87
                            89
## 10
## 11
          81 164
                   59 109
                            22
## 12
          21
              72
                   61
                       56 148
## 13
          48
               15 123
                       39
                            84
## 14
          19
               63
                   20
                       60 222
                   73 146
## 15
          93
               39
                            92
## 16
         317 226 176
                       94 168
         183 457 286
## 17
                       54
                            51
## 18
          49
               40
                    7
                       81
                            13
               72 185
## 19
         118
                       66
                            66
## 20
         258 113
                   52 240
                            80
## 21
          60 201 433 124 162
## 22
          59
              46
                   55
                       53
                            86
## 23
          77 102
                   89
                       47
                            59
## 24
          28
               60 172 123
                            67
## 546
               19
                   64
                       12
          18
                            61
## 547
          57
                9
                   39
                       19
                            20
## 548
           9
              19
                   10
                       16
                            32
## 549
                   12
                       34 136
         303 119
## 550
          89 172 190
                       77
                            31
## 551
          32
                8
                   90
                       71
                            55
## 552
          32
                6 49
                       19
                            19
## 553
          79
              62 113
                       24
                            58
          91 252
## 554
                   90 141 346
## 555
         233 176
                   64
                       41
                            40
## 556
         331 169 225 205 160
## 557
          90 198
                    9 168
                            98
## 558
              77 398 183 253
         318
## 559
         170 192 151 132 227
         304 322 304 469 322
## 560
## 561
          24 115 195 397 140
         253 459 227 159
## 562
         191 259
## 563
                   86 140 259
                   32 290
## 564
          13
               61
                            57
## 565
          58
               24
                   12
                         6
                            93
## 566
          86
               54 121
                       15
                            44
## 567
          44
               59
                   75
                         2 106
## 568
          87
                9
                   19
                       17
                            11
## 569
          15
                   11
                       15
              16
                            11
## 570
          11
              45
                   10
                       18
                            26
## 571
               24
                   16
                       15
          11
                            22
## 572
          12
               52
                   32
                       11
                            86
               98
                   68
                       45
                            82
## 573
          14
          73
                   22 110
                            15
## 574
               34
                   17 165
## 575
          27
               13
                             8
          23
## 576
               26
                   12
                         7
                            31
```

```
## 577
                   40
           24
               11
                        48
                             6
## 578
           75 148
                   11
                            58
                        50
## 579
          190
               23
                   38
                        39
                             9
## 580
          148
                   14
                        30
               22
                            18
##
   581
           22
               22
                   53
                        22
                            10
## 582
            9
               69
                   62 110 144
               76 133
## 583
          93
                        16
                            16
## 584
               76 202
                        30
           74
                            11
## 585
           47
               18 194
                        67
                            14
## 586
          45
               11
                   42
                        31
                            41
## 587
           24
               18
                   14
                        62
                            20
## 588
           50
                9
                   13
                        16
                             8
## 589
            9
               63
                   18
                         9
                            13
## 590
               17
                   13
                        20
                            41
           38
## 591
            9
               14
                   22
                        22
                            13
## 592
            8
               31
                   10
                         8
                            34
## 593
          12
               13 165
                        24
                            12
## 594
          32
               10
                   15
                        78
                            46
## 595
          11 105
                   90
                        54 210
## 596
          249
                9
                   68 104 139
## 597
          76
               30
                   32
                        69 113
          141 192 230 246 117
## 598
          62
               29
                   31 101 284
## 599
            9
               50
                   26
                      49 194
## 600
## 601
          95 147
                   68
                        68 125
## 602
          218
               71 153 141
## 603
          353
               97
                   80 144 493
          286 196
                   64 115 115
## 604
         130 221
                    1 152
## 605
                            70
              54 118 160
## 606
          208
                            25
## 607
         142 250 160 163 143
## 608
          126
                9 119
                        17
                            28
                      31
               95 142
## 609
          78
                            80
## 610
          91
               87 124 152
                            63
## 611
          295 107 141
                      17
                            53
## 612
         139
               17
                   75 115
                            88
## 1059
          60 309 111
                        21
## 1878
         415 391 132 824
                           247
## 1879
          37 130
                   45
                        11
                            82
## 1944
          59
               17
                   15
                        59
                            67
## 2119
         267
               78
                   77 122 163
## 2120
          267 222
                   97 230 187
## 2121
           30
               98
                   33 120 101
## 2122
          84 104 107 346
                            99
## 2123
         215
               87
                   87 184 170
               92
## 2124
         121
                   51
                        81
                            50
## 2125
         395
               30 289
                        73 186
## 2127
         191 204 124 315
## 2128
         118 278
                   83 211
                            38
## 2129
         158 113 152
                        57
                            77
## 2130
               83
                   23 170 222
          86
## 2131
                   23 244
          75
               83
                            58
## 2132
         230
               47 166
                        95 106
               77 178
                        73 154
## 2133
         176
## 2134
         176
               94 178 266 105
         209 225 232 117 167
## 2135
## 2136
           50 176 48
                      35 244
## 2137
         115
               69 141 167
```

```
## 2138
         213
               98 166 149 159
## 2139
         321 184
                    89
                        91
                            78
## 2140
           30 165 174 250
                            91
## 2141
         164
               76 286 273
##
   2142
           99 166
                    77
                        19
                           200
## 2143
         112 166
                    60
                        19 595
## 2146
         269 164 111 107
                            26
## 2147
         111 198 154 277
                            25
## 2148
         196
               87
                    31
                        71 200
## 2149
           93
               93
                    66
                        88 189
## 2150
         285
               90
                    52
                        74 107
## 2151
           36 197 103
                        69 128
## 2152
                        55
           85 100
                   94
                            54
## 2153
         128
               39
                    77
                        47
                            47
## 2172
           81
               15
                    9
                        26
                            12
## 2173
           14
               34
                   48
                        14
                            15
## 3282
           53 212
                    52 116 198
         362 255 169 324 205
## 3283
## 3524
         128
               31
                   99 270
                            66
## 3525
         120
               31 213 144
                            98
## 3526
           88
               11
                    71
                            99
## 3527
           91 228 152
                        63 352
## 3528
         414 112 129 160 316
## 3641
           87
               57
                   69
                        12
                            40
## 3647
         143 293 189
                        61
                            53
## 3648
          290 113 137 193 147
##
   3649
           49 323 111 286 105
## 3650
               37 150 100
           47
                            80
## 3651
           36 161
                    5 100 128
         206 210 140 245
## 3652
                            46
## 3653
           67 118 245 200
                            73
## 3654
         282 167
                    30 235 126
## 3655
           90
               21 105
                        57 307
## 3656
         324
               73
                    57 106 125
## 3657
         178
               30
                   47
                        68
                            62
## 3658
         183
               51 105
                        16
                            62
##
   3659
           46 110 103 155
## 3660
           75 111 113 146 134
## 3661
          251
               65
                    57
                        20
                            37
## 3662
          153
               79 109
                        21
                            95
## 3663
           42
               28
                    85
                        10
                             5
## 3664
           21 104
                    57 145
                            78
##
  3665
           39
               17
                    54
                        72
                            37
## 3709
           27
               15
                    30
                        24
                             8
## 3710
                    9
                        31
         210
               13
                            28
## 3711
           12
               74
                   12
                            73
                        16
## 3712
               17
                   17
           43
                        17
                            66
## 3713
           40
               56
                    59
                        59
                            15
## 3714
           28
               11
                    11
                        10
                            14
## 3715
               79
                    3
           19
                        36
                            52
## 3716
         144
               22
                    50
                        19 106
## 3717
           64
               27
                   13
                        64 215
## 3718
           20
               52
                   95
                        49
                            15
## 3719
         172 317
                    52
                        62
                            74
## 3720
            3
               29
                    21
                        73
                            35
## 3721
           80 152 170
                        48
                            90
## 3722
         190 197
                    19 111 247
## 3723
         173 135
                     9
                        44 111
```

```
## 3724
           96
               39
                    37
                        55
                             26
## 3725
           48 137
                    70
                        43 131
## 3726
         184 102 121 237 139
## 3727
           55
                    97 117
               61
                             51
##
   3728
          249 393 517
                        48 132
## 3729
          255
               35 128
                        36
                             57
          108
## 3730
               66 110
                        85
                             94
## 3731
           58
               74 153 193 121
## 3732
           52
               59
                    53
                        32
                            63
## 3733
          113
               50
                    82
                        75 222
## 3734
            7
               11
                    11
                        23
## 3735
           32 183
                    12
                        16 156
                    53
                        53
## 3736
           61
                7
                             42
## 3737
          130
                   48
                        61
                              8
               13
## 3738
            6
               11
                    22
                        59
                             59
## 3739
           48
               17 104 100
                             24
## 3740
               37
                    36
           13
                        15
                             20
## 3741
           18
               38
                     6
                        41
                              9
## 3742
           43
               56 248
                        44
                             27
## 3743
           52
               55 119
                        38
                             52
  3744
           43 261 143 192
                             29
## 3745
               89 114 217
           66
                             22
                    32 236
## 3746
          155
               95
                             63
## 3747
          208
               55 180
                        42 236
   3748
           15 117
                    61
                        90 157
  3749
          213
               44 179 104
   3750
          306 124
                   99
                        59 142
## 3751
           77 187 213 107
                             83
## 3752
               48
                   82
                        61
                             52
          234
## 3753
          234
               69 180 238 289
## 3754
          114
               80
                    93 102 100
## 3755
           29
               97
                    14
                        36 242
## 3756
           16 146
                    20 164
                             39
## 3757
                    14
                        10
                            92
           16
               26
## 3758
           44
                8
                    16
                        65
                            13
## 3759
                8
                     9
           11
                        12
                             31
## 3760
            9
               47
                    27
                        13
                             27
## 3761
           22
               20
                    34 129
                             69
## 3762
                    79
           41
               33
                        14
                              8
## 3763
           80
               39 116
                        13
                              9
## 3764
               62
                   14
                             37
           36
                        12
## 3765
                   42
                        30
           42
               18
                            88
## 3766
           90
               44
                    39
                        93 214
## 3767
           17
               42
                    57 136
                             51
## 3768
          261
                        29 185
               22
                    18
## 3769
               73 320
                        42
                            72
           66
## 3770
               85
                    35 227 246
           23
##
  3771
          144 315
                    81
                        62 373
## 3772
           61 275 100 146
                           155
## 3773
           22 224 109 109
                           155
## 3774
          136
               46 208
                        40
                             89
## 3775
               38
                   99
          140
                        17
                             20
## 3776
          156 179 293 137
##
   3777
           52 157
                    87
                        64 324
## 3778
               69 239 178 229
           67
           37 137 119 118
## 3779
                             16
## 3780
           10
               43 159
                        24
                             16
## 3797
           54
               74
                   69
                        60
```

```
## 3798
               74 176
                        56
           44
                             82
## 3799
          108
               55 109 201
                             96
## 3800
          100 163 193
                        77
                             13
   3801
               18 117 175
##
          112
                            128
##
   3802
           48
                 9
                    51 106
                            143
                 5
## 3803
            9
                    51
                         46
                             54
## 3804
           95
               24
                    35
                         44
                             35
## 3805
           75 106
                    11
                              9
                         16
## 3806
           18
               23
                    16
                         11
                             22
##
   3807
            8
               11
                    25
                         23
                             13
## 3808
           16
               16
                     9
                         25
                              7
## 3809
                7
                    30
                         79
                             12
           11
## 3810
           39
               48
                    18
                         45
                             92
## 3811
               10
                    53
                         20 167
           82
## 3812
           16
               16
                    17
                         40 101
## 3813
           19 158
                    43
                         27
                             19
## 3814
          105 176
                    92 100
                             46
## 3815
          175
               15 150 107
                             97
##
   3816
           92
               38
                    44
                         60 144
## 3817
          273
               88
                    48
                         98
                             64
## 3818
          109 149
                    57
                         19
                             16
## 3819
           87 114
                    69 151 140
## 3820
                    90 196
                              9
           79
               27
## 3821
           93 196
                    88 167
                             79
## 3822
          230
               32
                    34
                         31 219
## 3823
           34
               23 151 250
                             50
##
   3824
            9
               25
                    10
                         18 105
## 3825
                    15 108
           38
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                          10
## 29590 155 269
                  55 150
                          49
## 29591
          59 327 259
                      67
                          25
## 29592
         30 222 138
                      45
                          81
## 29593 194 186
                  76 206 259
```

```
## 29594 230 200
                        90 207
                   82
## 29595 731 100 266
                        92 104
## 29596 130 119
                   91
                        52 423
  29597 307 128 335 365
                            47
  29598
           50
               27
                    24
                        70 141
## 29599
           39 354
                    45 365 166
## 29600 102 133
                    58 203 179
## 29846
           26 149
                    39
                        73
                            85
## 30396
           28
               88
                    21
                        15
                            68
## 30397
           14
                9
                    28
                        28
                            27
## 31047
           29 164
                    68
                        12
                            23
## 31164 164 102
                    71
                        25
                            88
## 31165
           83
               52 188 130
                            24
## 31166
           45
               26
                   28
                        11 204
## 31167
           67
               52 122 299
                            27
## 31168
           22
               36
                   73 106
## 31169 263
                   93 108
               44
                            17
## 31825
           32
                7
                   18 104 525
## 31873
           46 331
                   92 146
                            51
## 31902 107 182 298 153
## 31911
           36
               51 100
## 31912
           36
               51
                   91 130 109
## 32102
                    7
           14
               15
                        17
                            23
## 32103
                   30
                        29
                              9
           21
               24
## 32104
           23
               30 149
                        52
                            36
## 32105
           12
               27
                    12
                        25
## 32434
           64 353 187 293 162
## 32435
           59 515 177 324 286
## 32751
           10
               17
                        47
                            20
                    44
## 33039
           15
               71
                    12
                        57
                            34
## 33040
           50
               60
                    9 103
                            34
           50 185 155
## 33041
                        16 110
## 33042
           96 281
                    45
                        92
                            35
## 33376
           36
               26
                    19
                        14
                            29
## 33377 122 101 348 148
                            66
## 34049 106
                    7
                        93
               16
                            26
## 34131
           11 107
                    52 170
                            89
   34794
           30
               26 115
                        19
                              9
   34795
                        28
                            12
##
           19
               10
                   70
## 34989
           54
                   72
                        46
                            17
               12
## 35011
           38
               19
                    25
                        14 116
## 35012
                   19
            8
               36
                        13
                            27
  35013 171
               13 327
                        46 103
## 35014
               73
                        21
           42
                    20
                            35
## 35015
           47 131 108 107 221
## 35016
               72
                   43 231 156
           35
## 35017
           19
               22
                   15
                        41
                            18
## 35018
           18
               29
                    23
                        43
                            10
## 35019
           17
               20
                    13
                        14
                            14
## 35020
           17 204
                    12
                        10
                            14
## 35021
           14
               47
                    12
                        16
                            45
## 35022
           20
               58
                   15
                        13
                            45
## 35023
           78
               19
                   12
                         8
                            16
## 35024
            7
               10
                    85
                         8
                            20
## 35025
            9
               87
                    42
                        90
                             7
## 35026
           66
               19
                    20
                        12
                            34
## 35027
           81
               10
                   49
                        84
                            11
## 35330
           58
               38 108
                         3
                            15
```

```
## 35331
           23
               16
                    14
                         9
                            30
## 35332
                              9
           21
               88
                    21
                        41
## 35333
           10
               48
                    19
                         9
                            18
## 35334
            5
               50
                    22 150
                            21
## 35585
               23
                    16
                        59
                              7
           21
## 35586
           13
               23
                     9
                        12
                            31
## 36234
           27
               31 151
                        93 210
           41 105 123 128
## 36276
                            13
## 36339
           92 248
                    99
                        87
                            81
## 36977
           38
               24
                     8
                        14
                            15
## 37456
           20
               91
                    42
                        91
## 37553
                     9
                        50
            8
               16
                            16
## 37554
           48
               97
                    11
                        63
                            97
## 38412
           94
               94
                         8 107
                   16
## 38413
            8
               11
                   43
                        24
                            13
## 38785
          11
               27
                    56
                            16
## 38809 163
               62 155
                        49
                            29
## 38833 346 351 129 105 490
  38857 109 123
                   41 297
##
                            71
## 38881
           36
               57 129 291
                            64
## 38883
           18
               92
                    74
## 38884 192 287 397 303 177
## 38885
           85
               69 339 125 148
## 38886 443 314 345
                        31
                            77
## 38887
           48
               58 105 136
                            28
## 38888
           64
               73 229
                        91 103
##
   38889
           14
               16
                    31
                        66
                            77
                    53
## 38890
           41 213
                        90
                            97
## 38891 114
                9
                    83
                        22 124
## 39111
           46
               24
                    22
                        27
                            57
## 39113
           10
                     8
                6
                        69 117
## 39114
           13 153 108
                        48
                            17
## 39686
           69 205
                     9
                        14
                              6
## 39687 160 108
                    29 109
                            82
## 39688
               26
                    38
                        38
                            13
           17
## 39689
           19
               21
                   17
                        16
                            24
   39690
           31 130
                    17
                        10
                            49
##
   39924 110
               70
                    15
                        60
                            33
   39925
##
           11
               15 165
                         6
                            13
## 40577
               85
                    43
                            22
           12
                        48
## 40578 121 162 107 162
                            13
## 40625
               48
           84
                    14
                         8 153
## 40626 142 124
                    14
                        67 164
## 40627 146
              126
                    77
                        30 101
## 40628 173
                    54 291
               23
                            71
## 40629 202
               79
                    37 280
                            16
## 40630
                    49
           64 111
                        80 100
## 40631
           34 298
                    87
## 40632 115
              298 158
                        18
                            20
## 40633
           50 207 246
                        38 281
## 41264
           48
               53 312 137 175
           24 101 125
## 41277
                        54
                            18
## 41348 279
              401
                    45
                        39 244
## 41441 148
               42
                    36
                        82 151
## 41444 369
               85 256 188
                            25
## 42089 178 245
                   62
                        90 156
## 42491
           66
               13
                   13
                        15
                            17
## 42666
           20
               43
                    62
                        45
```

```
## 42838 304 41 123 110 158
## 42839 114 164 70 50 138
## 42840
         38
             46 372 135 168
## 42841 178 148
                  86
                     87 190
## 42842 301
             70
                  97 166 201
## 42843 405 203
                 67 234 142
## 42844 124 521 134 78 324
## 42845 329 213
                 74 185 213
## 42846 253 178 64 130
## 42847 121 551
                 73 130 106
## 42848 57 133 46 106
## 42849 124 238 283 412 248
                      26
## 43191 22
             59
                  38
                          20
## 43192 42
             23 104
                      81
                          36
## 43265
         26
             45
                  11
                      66
## 43267 199 335
                  71
                      71 196
## 43268
         72
             74
                  68 236
## 43269 57 372
                  76 155
                          95
## 43270 284 119
                  32 22
## 43271 97
              89
                  96 100 147
## 43274 113
             76
                 79 133
## 43275 119
             93 253 257 290
## 43276 277 195 134 315 158
## 43277 126 190 101
                          75
## 43278 62
             33
                  16
                      75 215
## 43279 99
             62 383
## 43280 91 298 169
                      91 335
## 43281 44 107 290 180
## 43282
         38
             84 149
                          27
## 43283 128
             77 162
                      67 119
## 43284 115
             47 474 168 207
## 43545 212
              19
                 11
                      22
## 43546
                  20 142
                          34
         44
              48
## 43547
               9 27
          9
                      10
                          32
## 43548
         23
             11
                 32 27
                          51
## 43549
         37
                  17 159
             20
## 43550
         16
               7 47
                          31
## 43551
         17
              12 106
                      55
                          15
## 43552
         11
                       7
              18
                  22
                          46
## 43553 158
             36
                  11
                       8
                          20
##
## $DEWP
## [1] 1 2 3 4 5
## <0 rows> (or 0-length row.names)
##
## $TEMP
## [1] 1 2 3 4 5
## <0 rows> (or 0-length row.names)
##
## $PRES
## [1] 1 2 3 4 5
## <0 rows> (or 0-length row.names)
##
## $cbwd
## [1] 1 2 3 4 5
## <0 rows> (or 0-length row.names)
##
## $date
```

```
## [1] 1 2 3 4 5
## <0 rows> (or 0-length row.names)
```

```
pm2.5 <- complete(data)
summary(pm2.5)</pre>
```

```
##
       pm2.5
                      DEWP
                                       TFMP
                                                      PRFS
## Min. : 0.00 Min. :-40.000 Min. :-19.00 Min.
                                                       : 991
   1st Qu.: 29.00 1st Qu.:-10.000
                                 1st Qu.: 2.00
                                                 1st Qu.:1008
  Median : 72.00 Median : 2.000
                                  Median : 14.00
                                                 Median:1016
## Mean : 98.71 Mean : 1.817
                                  Mean : 12.45
                                                 Mean
                                                       :1016
  3rd Qu.:137.00 3rd Qu.: 15.000
                                  3rd Qu.: 23.00
                                                 3rd Qu.:1025
## Max. :994.00 Max. : 28.000
                                  Max. : 42.00
                                                 Max.
                                                       :1046
##
  cbwd
                 date
  NE: 4997 Min. :2010-01-01
## NW:14150 1st Qu.:2011-04-02
## SE:15290 Median :2012-07-01
## SW: 9387 Mean :2012-07-01
##
             3rd Qu.:2013-10-01
##
             Max.
                  :2014-12-31
```

#### Check the mode of each variable

```
sapply(pm2.5, class)

## pm2.5 DEWP TEMP PRES cbwd date
## "numeric" "numeric" "factor" "Date"
```

## The only apparent categorical variable in our dataset is cbwd, the wind direction

### Create the dummy variables of wind direction

```
pm2.5 <- pm2.5 %>% mutate(SW = as.numeric(cbwd == 'SW'))
pm2.5 <- pm2.5 %>% mutate(NE = as.numeric(cbwd == 'NE'))
pm2.5 <- pm2.5 %>% mutate(NW = as.numeric(cbwd == 'NW'))
pm2.5 <- pm2.5 %>% mutate(SE = as.numeric(cbwd == 'SE'))
```

# "SW", "NE", "NW", "SE" are four new variables in the dataframe pm2.5

```
summary(pm2.5)
```

PM2.5 Forecasting

```
##
       pm2.5
                       DEWP
                                        TEMP
                                                        PRES
##
   Min. : 0.00
                 Min.
                        :-40.000
                                   Min.
                                          :-19.00
                                                   Min.
                                                         : 991
   1st Qu.: 29.00
##
                   1st Qu.:-10.000
                                   1st Qu.: 2.00
                                                   1st Qu.:1008
   Median : 72.00
                   Median : 2.000
                                   Median : 14.00
                                                   Median:1016
##
   Mean : 98.71
                   Mean : 1.817
                                   Mean : 12.45
                                                   Mean
                                   3rd Qu.: 23.00
   3rd Qu.:137.00
                   3rd Qu.: 15.000
                                                   3rd Qu.:1025
   Max. :994.00
                  Max. : 28.000
                                   Max. : 42.00
                                                         :1046
##
                                                   Max.
##
   cbwd
                  date
                                      SW
                                                      NE
   NE: 4997
##
             Min.
                    :2010-01-01 Min.
                                       :0.0000
                                                Min.
                                                       :0.000
   NW:14150
             1st Qu.:0.000
             Median :2012-07-01
   SE:15290
                                Median :0.0000
                                                Median :0.000
##
   SW: 9387
                   :2012-07-01 Mean
                                      :0.2142
             Mean
                                                Mean
                                                       :0.114
##
             3rd Qu.:2013-10-01
                                3rd Qu.:0.0000
                                                3rd Qu.:0.000
##
             Max.
                   :2014-12-31 Max.
                                     :1.0000
                                                Max.
                                                       :1.000
##
         NW
                        SE
##
   Min.
          :0.0000
                  Min.
                         :0.0000
                  1st Qu.:0.0000
   1st Qu.:0.0000
   Median :0.0000
                  Median :0.0000
##
##
   Mean
          :0.3229
                  Mean
                         :0.3489
   3rd Qu.:1.0000
                  3rd Qu.:1.0000
   Max.
        :1.0000
                   Max.
                         :1.0000
```

### Preparing for training and test set

```
#shuffle dataset and create train and test set
set.seed(1234567)
n <- nrow(pm2.5)
shuffled <- pm2.5[sample(n),]

train <- shuffled[1:round(0.7 * n),]
test <- shuffled[(round(0.7 * n) + 1):n,]
summary(train)</pre>
```

```
##
        pm2.5
                           DEWP
                                              TEMP
                                                                PRES
##
   Min.
          : 0.00
                             :-40.000
                                                :-19.00
                                                                  : 991
                      Min.
                                         Min.
                                                           Min.
##
    1st Qu.: 29.00
                      1st Qu.:-10.000
                                         1st Qu.: 2.00
                                                           1st Qu.:1008
##
    Median : 73.00
                      Median : 2.000
                                         Median : 14.00
                                                           Median:1016
    Mean
           : 98.83
                             : 1.772
                                                : 12.37
                                                           Mean
                                                                  :1017
                      Mean
                                         Mean
##
    3rd Qu.:137.00
                      3rd Qu.: 15.000
                                         3rd Qu.: 23.00
                                                           3rd Qu.:1025
           :994.00
##
   Max.
                      Max.
                            : 28.000
                                         Max.
                                                : 42.00
                                                           Max.
                                                                  :1046
##
    cbwd
                     date
                                            SW
                                                              NE
    NE: 3477
##
               Min.
                       :2010-01-01
                                     Min.
                                             :0.0000
                                                       Min.
                                                               :0.0000
    NW: 9940
               1st Qu.:2011-04-03
                                      1st Qu.:0.0000
                                                        1st Qu.:0.0000
##
##
    SE:10677
               Median :2012-06-30
                                     Median :0.0000
                                                        Median :0.0000
    SW: 6583
               Mean
                       :2012-07-01
                                     Mean
                                             :0.2146
                                                       Mean
                                                               :0.1133
##
##
               3rd Qu.:2013-10-02
                                      3rd Qu.:0.0000
                                                        3rd Qu.:0.0000
##
               Max.
                       :2014-12-31
                                      Max.
                                             :1.0000
                                                        Max.
                                                               :1.0000
          NW
                           SE
##
##
   Min.
           :0.000
                     Min.
                            :0.000
    1st Qu.:0.000
                     1st Qu.:0.000
##
   Median :0.000
                     Median:0.000
##
   Mean
           :0.324
                     Mean
                            :0.348
##
##
    3rd Qu.:1.000
                     3rd Qu.:1.000
   Max.
           :1.000
                     Max.
                            :1.000
```

```
summary(test)
```

```
##
                           DEWP
                                                                 PRES
        pm2.5
                                              TEMP
    Min.
           : 0.00
                      Min.
                              :-37.000
                                                 :-19.00
                                                           Min.
                                                                   : 991
    1st Qu.: 29.00
                      1st Qu.:-10.000
                                         1st Qu.: 2.00
                                                           1st Qu.:1008
    Median : 72.00
                      Median : 2.000
                                         Median : 14.00
                                                           Median :1016
##
                            : 1.924
                                                           Mean
##
    Mean
           : 98.44
                      Mean
                                         Mean
                                                : 12.64
                                                                   :1016
    3rd Qu.:138.00
##
                      3rd Qu.: 15.000
                                         3rd Qu.: 23.00
                                                           3rd Qu.:1024
    Max.
           :845.00
                      Max.
                             : 28.000
                                         Max.
                                                 : 41.00
                                                           Max.
                                                                   :1046
##
##
    cbwd
                    date
                                           SW
                                                             NF
    NE:1520
                                            :0.0000
##
              Min.
                      :2010-01-01
                                     Min.
                                                       Min.
                                                               :0.0000
    NW:4210
                                     1st Qu.:0.0000
##
              1st Qu.:2011-03-30
                                                       1st Qu.:0.0000
##
    SE:4613
              Median :2012-07-05
                                     Median :0.0000
                                                       Median :0.0000
##
    SW:2804
              Mean
                      :2012-06-30
                                     Mean
                                            :0.2133
                                                       Mean
                                                               :0.1156
##
              3rd Qu.:2013-09-29
                                     3rd Qu.:0.0000
                                                       3rd Qu.:0.0000
                      :2014-12-31
##
              Max.
                                     Max.
                                            :1.0000
                                                       Max.
                                                               :1.0000
##
          NW
                            SE
##
    Min.
           :0.0000
                      Min.
                              :0.0000
##
    1st Qu.:0.0000
                      1st Qu.:0.0000
    Median :0.0000
                      Median :0.0000
##
##
    Mean
           :0.3202
                      Mean
                              :0.3509
##
    3rd Qu.:1.0000
                      3rd Qu.:1.0000
    Max.
           :1.0000
                              :1.0000
##
                      Max.
```

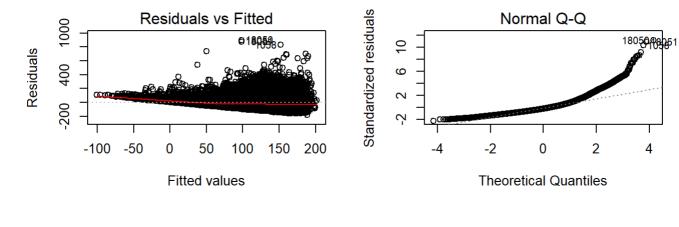
### Build a main effects model

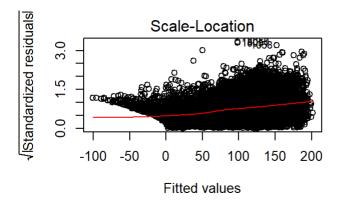
```
pm2.5.lm1 <- lm(pm2.5 \sim DEWP + TEMP + PRES + SW + NE + NW + SE, data = train) summary(pm2.5.lm1)
```

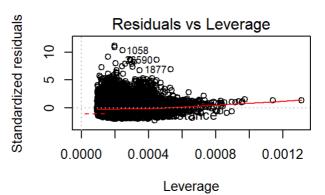
```
##
## Call:
## lm(formula = pm2.5 ~ DEWP + TEMP + PRES + SW + NE + NW + SE,
      data = train)
##
## Residuals:
      Min
               1Q Median
                              3Q
                                     Max
## -179.78 -52.18 -16.68
                           31.30 895.99
## Coefficients: (1 not defined because of singularities)
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) 1929.10399 85.16635 22.651
                                            <2e-16 ***
## DEWP
                4.05070 0.06076 66.670 <2e-16 ***
               -6.31482
## TEMP
                           0.07873 -80.208 <2e-16 ***
## PRES
               -1.71474 0.08324 -20.601 <2e-16 ***
                0.00393 1.28336 0.003
## SW
                                             0.998
              -29.48972 1.59660 -18.470 <2e-16 ***
## NE
## NW
              -40.04735 1.20423 -33.256 <2e-16 ***
## SE
                                NA
                                        NA
                                                NA
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 80.45 on 30670 degrees of freedom
## Multiple R-squared: 0.239, Adjusted R-squared: 0.2388
## F-statistic: 1605 on 6 and 30670 DF, p-value: < 2.2e-16
```

### Diagnose the model

```
par(mfrow = c(2,2))
plot(pm2.5.lm1)
```







```
par(mfrow = c(1,1))
save_data <- c()
for(i in 1:1000){
   result_test <- shapiro.test(sample(pm2.5.lm1$residuals,5000))
   save_data <- append(save_data,result_test[[2]])
}
length(save_data[save_data<=0.05])</pre>
```

## [1] 1000

From Normal Q-Q plot and shapiro test result, we know that the residuals are not normally distributed. So we need do box-cox transformation

However, box-cox transformation cannot be applied here. From the density plot of pm2.5, we can know that the response variable can be negative. However, box-cox

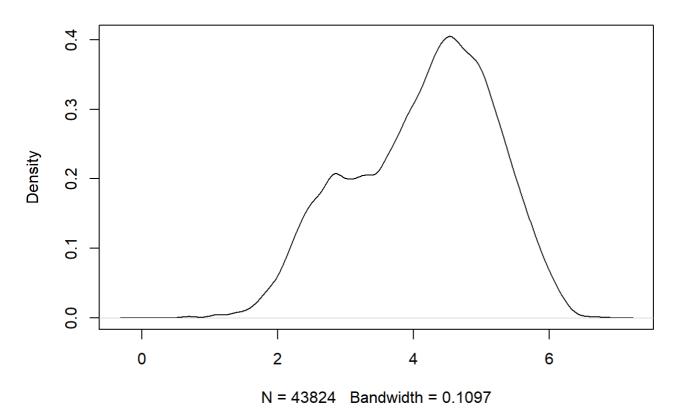
12/18/2018 PM2.5 Forecasting

transformation includes the log transformation as a particular case. So here, we introduce the IHS(Inverse Hyperbolic Sine) transformation

# Density Plot of pm2.5 time series

plot(density(log(pm2.5\$pm2.5)))

#### density.default(x = log(pm2.5\*pm2.5))



summary(pm2.5.lm1)

```
##
## Call:
## lm(formula = pm2.5 \sim DEWP + TEMP + PRES + SW + NE + NW + SE,
      data = train)
##
## Residuals:
      Min
            1Q Median
                             3Q
                                    Max
## -179.78 -52.18 -16.68 31.30 895.99
##
## Coefficients: (1 not defined because of singularities)
               Estimate Std. Error t value Pr(>|t|)
## (Intercept) 1929.10399 85.16635 22.651
                                           <2e-16 ***
## DEWP
                4.05070 0.06076 66.670 <2e-16 ***
## TEMP
               -6.31482 0.07873 -80.208 <2e-16 ***
## PRES
              -1.71474 0.08324 -20.601 <2e-16 ***
                0.00393 1.28336 0.003
## SW
                                            0.998
              -29.48972 1.59660 -18.470 <2e-16 ***
## NE
## NW
              -40.04735
                          1.20423 -33.256 <2e-16 ***
## SE
                               NA
                                       NA
                                               NA
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 80.45 on 30670 degrees of freedom
## Multiple R-squared: 0.239, Adjusted R-squared: 0.2388
## F-statistic: 1605 on 6 and 30670 DF, p-value: < 2.2e-16
```

IHS(Inverse Hyperbolic Sine) transformation. The IHS transformation works with data defined on the whole real line including zeros. For large values of x, IHS behaves like a log transformation, and the transformation accommodates values of 0

```
ihs <- function(x) {
  y <- log(x + sqrt(x ^ 2 + 1))
  return(y)
}</pre>
```

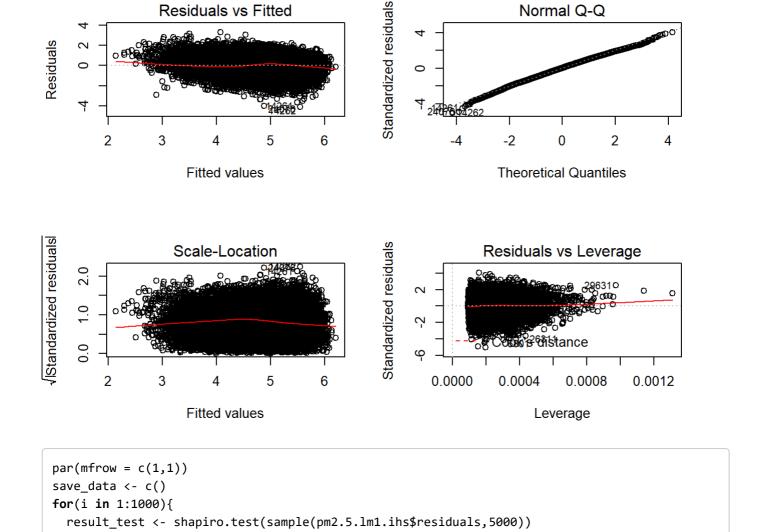
## Take the IHS of the response variable pm2.5

```
pm2.5.lm1.ihs <- lm(ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW + SE, data = train)
summary(pm2.5.lm1.ihs)</pre>
```

```
##
## Call:
## lm(formula = ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW +
      SE, data = train)
##
## Residuals:
##
     Min
              1Q Median
                            3Q
                                  Max
## -4.1007 -0.5456 0.0197 0.5687 3.2885
##
## Coefficients: (1 not defined because of singularities)
               Estimate Std. Error t value Pr(>|t|)
                                         <2e-16 ***
## (Intercept) 28.1526755 0.8618829 32.664
## DEWP
             0.0544473 0.0006149 88.551
                                         <2e-16 ***
## TEMP
                                         <2e-16 ***
             -0.0759813 0.0007968 -95.364
## PRES
            -0.0217879   0.0008423   -25.866   <2e-16 ***
             -0.1175254 0.0129876 -9.049
                                         <2e-16 ***
## SW
            ## NE
## NW
             ## SE
                    NA
                              NA
                                     NA
                                             NA
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.8141 on 30670 degrees of freedom
## Multiple R-squared: 0.3752, Adjusted R-squared: 0.3751
## F-statistic: 3070 on 6 and 30670 DF, p-value: < 2.2e-16
```

#### Diagnose the model

```
par(mfrow = c(2,2))
plot(pm2.5.lm1.ihs)
```



```
}
length(save_data[save_data<=0.05])

## [1] 1000</pre>
```

save\_data <- append(save\_data,result\_test[[2]])</pre>

From the Normal Q-Q plot, we get that the residual is nealy normally distributed. So we can say that the ihs transformation rastically increased the adjusted R 2 and significantly improved the model assumptions.

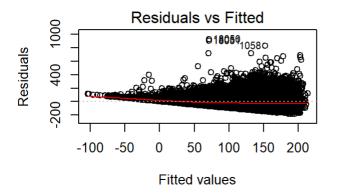
#### Build a main effects + interation model

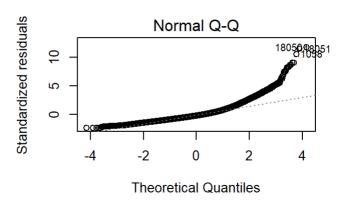
```
pm2.5.lm2 <- lm(pm2.5 ~ (DEWP + TEMP +
    PRES + SW + NE + NW + SE)^2, data = train)
summary(pm2.5.lm2)</pre>
```

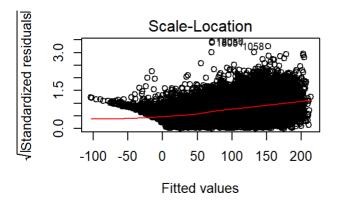
```
##
## Call:
## lm(formula = pm2.5 \sim (DEWP + TEMP + PRES + SW + NE + NW + SE)^2,
       data = train)
##
## Residuals:
      Min
##
               1Q Median
                                3Q
                                       Max
## -182.49 -50.13 -14.48
                             31.46 922.83
##
## Coefficients: (10 not defined because of singularities)
##
                 Estimate Std. Error t value Pr(>|t|)
## (Intercept) 9.371e+02 1.841e+02
                                       5.089 3.62e-07 ***
## DEWP
              -1.256e+02 7.359e+00 -17.068 < 2e-16 ***
## TEMP
               5.963e+01 7.255e+00
                                       8.219 < 2e-16 ***
## PRES
               -7.364e-01 1.802e-01 -4.086 4.39e-05 ***
               -1.262e+01 2.343e+02 -0.054 0.957033
## SW
               4.415e+02 2.945e+02 1.499 0.133835
## NE
## NW
                5.673e+02 2.176e+02
                                       2.607 0.009150 **
## SE
                       NA
                                  NA
                                          NA
                                                   NΑ
## DEWP:TEMP
               -4.435e-02 6.266e-03 -7.078 1.49e-12 ***
                1.284e-01 7.205e-03 17.818 < 2e-16 ***
## DEWP:PRES
## DEWP:SW
                2.666e-01 1.845e-01
                                     1.445 0.148582
## DEWP:NE
               3.434e-01 2.105e-01
                                      1.631 0.102945
## DEWP:NW
               -5.467e-01 1.447e-01 -3.777 0.000159 ***
## DEWP:SE
                       NA
                                  NA
                                          NA
                                                   NA
## TEMP:PRES
               -6.426e-02 7.146e-03 -8.992 < 2e-16 ***
## TEMP:SW
              -1.369e+00 2.245e-01 -6.101 1.07e-09 ***
## TEMP:NE
               -1.526e+00 2.727e-01 -5.596 2.21e-08 ***
## TEMP:NW
              -1.004e+00 1.976e-01 -5.082 3.77e-07 ***
## TEMP:SE
                      NA
                                  NA
                                          NA
                                                   NA
## PRES:SW
               2.893e-02 2.291e-01
                                      0.126 0.899517
## PRES:NE
              -4.398e-01 2.878e-01 -1.528 0.126442
## PRES:NW
               -5.820e-01 2.127e-01 -2.737 0.006210 **
## PRES:SE
                                  NΑ
                       NΑ
                                          NΑ
                                                   NΑ
## SW:NE
                       NA
                                  NA
                                          NA
                                                   NA
## SW:NW
                       NΑ
                                  NA
                                                   NA
## SW:SE
                       NA
                                  NA
                                          NA
                                                   NA
## NE:NW
                       NA
                                  NA
                                          NA
                                                   NA
## NE:SE
                       NA
                                  NA
                                          NA
                                                   NA
## NW:SE
                       NA
                                  NA
                                                   NA
                                          NA
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 78.73 on 30658 degrees of freedom
## Multiple R-squared: 0.2713, Adjusted R-squared: 0.2709
## F-statistic: 634.2 on 18 and 30658 DF, p-value: < 2.2e-16
```

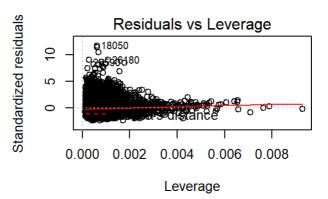
#### Diagnose the mdoel

```
par(mfrow = c(2,2))
plot(pm2.5.lm2)
```









```
par(mfrow = c(1,1))
save_data <- c()
for(i in 1:1000){
  result_test <- shapiro.test(sample(pm2.5.lm2$residuals,5000))
  save_data <- append(save_data,result_test[[2]])
}
length(save_data[save_data<=0.05])</pre>
```

## [1] 1000

From the Normal Q-Q plot and the shapiro test result, we know that the residuals are not normally distributed. So we need do IHS(Inverse Hyperbolic Sine) transformation

## Take the IHS of the response variable pm2.5

```
pm2.5.lm2.ihs <- lm(ihs(pm2.5) ~ (DEWP + TEMP +
    PRES + SW + NE + NW + SE)^2, data = train)
summary(pm2.5.lm2.ihs)</pre>
```

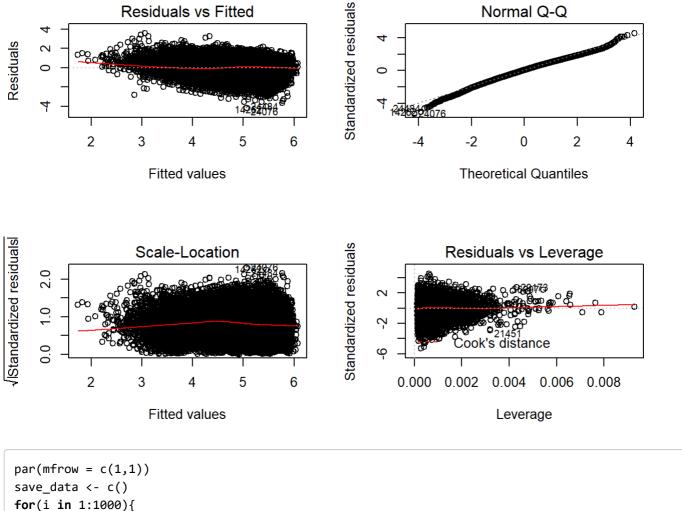
```
##
## Call:
## lm(formula = ihs(pm2.5) ~ (DEWP + TEMP + PRES + SW + NE + NW +
       SE)^2, data = train)
##
## Residuals:
      Min
##
                1Q Median
                                30
                                       Max
## -4.1870 -0.5124 0.0384 0.5562 3.5788
##
## Coefficients: (10 not defined because of singularities)
##
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) 1.529e+01 1.851e+00
                                       8.260 < 2e-16 ***
## DEWP
               -1.636e+00 7.397e-02 -22.115 < 2e-16 ***
## TEMP
                5.926e-01 7.292e-02
                                       8.126 4.61e-16 ***
## PRES
               -9.209e-03 1.811e-03 -5.084 3.72e-07 ***
## SW
               -1.410e+00 2.355e+00 -0.599 0.549412
               1.025e+01 2.960e+00
                                      3.461 0.000539 ***
## NE
## NW
                1.182e+01 2.188e+00
                                       5.405 6.53e-08 ***
## SE
                       NA
                                  NA
                                         NA
                                                   NA
## DEWP:TEMP
               -4.777e-05 6.298e-05
                                     -0.758 0.448183
## DEWP:PRES
                1.657e-03 7.242e-05 22.886 < 2e-16 ***
                                     3.102 0.001921 **
## DEWP:SW
                5.755e-03 1.855e-03
## DEWP:NE
                1.867e-02 2.116e-03 8.822 < 2e-16 ***
## DEWP:NW
                9.374e-03 1.455e-03
                                       6.444 1.18e-10 ***
## DEWP:SE
                       NA
                                 NA
                                         NA
                                                   NΑ
## TEMP:PRES
               -6.426e-04
                          7.183e-05
                                     -8.946 < 2e-16 ***
## TEMP:SW
               -1.337e-02 2.256e-03 -5.927 3.11e-09 ***
## TEMP:NE
               -3.225e-02 2.742e-03 -11.763 < 2e-16 ***
## TEMP:NW
               -2.608e-02 1.986e-03 -13.132 < 2e-16 ***
## TEMP:SE
                       NA
                                 NA
                                         NA
                                                   ΝΔ
## PRES:SW
               1.435e-03 2.303e-03
                                       0.623 0.533252
## PRES:NE
              -1.022e-02 2.893e-03 -3.532 0.000412 ***
## PRES:NW
               -1.203e-02 2.138e-03 -5.626 1.87e-08 ***
## PRFS:SF
                                  NΑ
                                         NΑ
                       NΑ
                                                   NΑ
## SW:NE
                       NA
                                  NA
                                         NA
                                                   NA
## SW:NW
                       NA
                                  NA
                                          NΑ
                                                   NA
## SW:SE
                       NA
                                  NA
                                          NA
                                                   NA
## NE:NW
                       NA
                                  NA
                                          NA
                                                   NA
## NE:SE
                       NA
                                  NA
                                          NA
                                                   NA
## NW:SE
                       NA
                                  NA
                                                   NA
                                          NA
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.7914 on 30658 degrees of freedom
## Multiple R-squared: 0.4098, Adjusted R-squared: 0.4095
## F-statistic: 1183 on 18 and 30658 DF, p-value: < 2.2e-16
```

#### Test the model

```
par(mfrow = c(2,2))
plot(pm2.5.lm2.ihs)
```

Normal Q-Q

Residuals vs Fitted



```
result_test <- shapiro.test(sample(pm2.5.lm2.ihs$residuals,5000))</pre>
  save_data <- append(save_data,result_test[[2]])</pre>
length(save_data[save_data<=0.05])</pre>
```

## [1] 1000

The residual of pm2.5.lm.ihs is nearly normally distributed and significantly improve the model assumption

Use stepwise regressio on your main effects + interation model

```
pm2.5.lm2.step <- step(pm2.5.lm2.ihs)</pre>
```

```
## Start: AIC=-14334.99
## ihs(pm2.5) \sim (DEWP + TEMP + PRES + SW + NE + NW + SE)^2
##
##
## Step: AIC=-14334.99
## ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW + SE + DEWP:TEMP +
       DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + DEWP:SE + TEMP:PRES +
##
       TEMP:SW + TEMP:NE + TEMP:NW + TEMP:SE + PRES:SW + PRES:NE +
##
       PRES:NW + PRES:SE + SW:NE + SW:NW + SW:SE + NE:NW + NE:SE
##
##
## Step: AIC=-14334.99
## ihs(pm2.5) \sim DEWP + TEMP + PRES + SW + NE + NW + SE + DEWP:TEMP +
       DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + DEWP:SE + TEMP:PRES +
##
       TEMP:SW + TEMP:NE + TEMP:NW + TEMP:SE + PRES:SW + PRES:NE +
##
       PRES:NW + PRES:SE + SW:NE + SW:NW + SW:SE + NE:NW
##
##
## Step: AIC=-14334.99
## ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW + SE + DEWP:TEMP +
       DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + DEWP:SE + TEMP:PRES +
       TEMP:SW + TEMP:NE + TEMP:NW + TEMP:SE + PRES:SW + PRES:NE +
##
##
       PRES:NW + PRES:SE + SW:NE + SW:NW + SW:SE
##
##
## Step: AIC=-14334.99
## ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW + SE + DEWP:TEMP +
##
       DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + DEWP:SE + TEMP:PRES +
       TEMP:SW + TEMP:NE + TEMP:NW + TEMP:SE + PRES:SW + PRES:NE +
##
##
       PRES:NW + PRES:SE + SW:NE + SW:NW
##
##
## Step: AIC=-14334.99
## ihs(pm2.5) \sim DEWP + TEMP + PRES + SW + NE + NW + SE + DEWP:TEMP +
##
       DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + DEWP:SE + TEMP:PRES +
##
       TEMP:SW + TEMP:NE + TEMP:NW + TEMP:SE + PRES:SW + PRES:NE +
##
       PRES:NW + PRES:SE + SW:NE
##
##
## Step: AIC=-14334.99
## ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW + SE + DEWP:TEMP +
       DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + DEWP:SE + TEMP:PRES +
##
       TEMP:SW + TEMP:NE + TEMP:NW + TEMP:SE + PRES:SW + PRES:NE +
##
       PRES:NW + PRES:SE
##
##
## Step: AIC=-14334.99
## ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW + SE + DEWP:TEMP +
##
       DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + DEWP:SE + TEMP:PRES +
##
       TEMP:SW + TEMP:NE + TEMP:NW + TEMP:SE + PRES:SW + PRES:NE +
##
       PRES:NW
##
##
## Step: AIC=-14334.99
## ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW + SE + DEWP:TEMP +
##
       DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + DEWP:SE + TEMP:PRES +
##
       TEMP:SW + TEMP:NE + TEMP:NW + PRES:SW + PRES:NE + PRES:NW
```

```
##
##
## Step: AIC=-14334.99
## ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW + SE + DEWP:TEMP +
      DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + TEMP:PRES + TEMP:SW +
      TEMP:NE + TEMP:NW + PRES:SW + PRES:NE + PRES:NW
##
##
##
## Step: AIC=-14334.99
## ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW + DEWP:TEMP +
      DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + TEMP:PRES + TEMP:SW +
      TEMP:NE + TEMP:NW + PRES:SW + PRES:NE + PRES:NW
##
##
##
              Df Sum of Sq RSS
                                 ATC
## - PRES:SW
               1
                     0.24 19202 -14337
## - DEWP:TEMP 1
                      0.36 19202 -14336
                          19202 -14335
## <none>
## - DEWP:SW 1
                   6.03 19208 -14327
## - PRES:NE 1
                    7.82 19209 -14324
## - PRES:NW 1
                   19.82 19221 -14305
## - TEMP:SW 1
                   22.00 19224 -14302
                   26.01 19228 -14296
## - DEWP:NW 1
                   48.74 19250 -14259
## - DEWP:NE 1
## - TEMP:PRES 1
                   50.12 19252 -14257
## - TEMP:NE 1
                    86.66 19288 -14199
## - TEMP:NW 1 108.00 19310 -14165
## - DEWP:PRES 1 328.03 19530 -13817
##
## Step: AIC=-14336.6
## ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW + DEWP:TEMP +
      DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + TEMP:PRES + TEMP:SW +
##
      TEMP:NE + TEMP:NW + PRES:NE + PRES:NW
##
##
              Df Sum of Sq RSS
## - DEWP:TEMP 1 0.43 19202 -14338
## <none>
                          19202 -14337
## - DEWP:SW
             1
                    5.84 19208 -14329
## - PRES:NE 1
                   10.14 19212 -14322
## - DEWP:NW
               1
                   25.84 19228 -14297
## - PRES:NW 1
                   29.19 19231 -14292
## - TEMP:SW 1
                   30.29 19232 -14290
## - DEWP:NE
               1
                    48.55 19250 -14261
## - TEMP:PRES 1
                   51.40 19253 -14257
## - TEMP:NE
                   91.85 19294 -14192
               1
## - TEMP:NW
               1
                 120.25 19322 -14147
## - DEWP:PRES 1
                   327.84 19530 -13819
##
## Step: AIC=-14337.92
## ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW + DEWP:PRES +
##
      DEWP:SW + DEWP:NE + DEWP:NW + TEMP:PRES + TEMP:SW + TEMP:NE +
##
      TEMP:NW + PRES:NE + PRES:NW
##
##
              Df Sum of Sq
                           RSS
## <none>
                          19202 -14338
## - DEWP:SW
             1
                     6.06 19208 -14330
## - PRES:NE
              1
                     9.90 19212 -14324
## - DEWP:NW
               1
                    26.98 19229 -14297
## - PRES:NW
                    28.98 19231 -14294
```

```
## - TEMP:SW 1 30.20 19232 -14292

## - DEWP:NE 1 49.22 19251 -14261

## - TEMP:PRES 1 52.89 19255 -14256

## - TEMP:NE 1 91.43 19294 -14194

## - TEMP:NW 1 123.50 19326 -14143

## - DEWP:PRES 1 475.98 19678 -13589
```

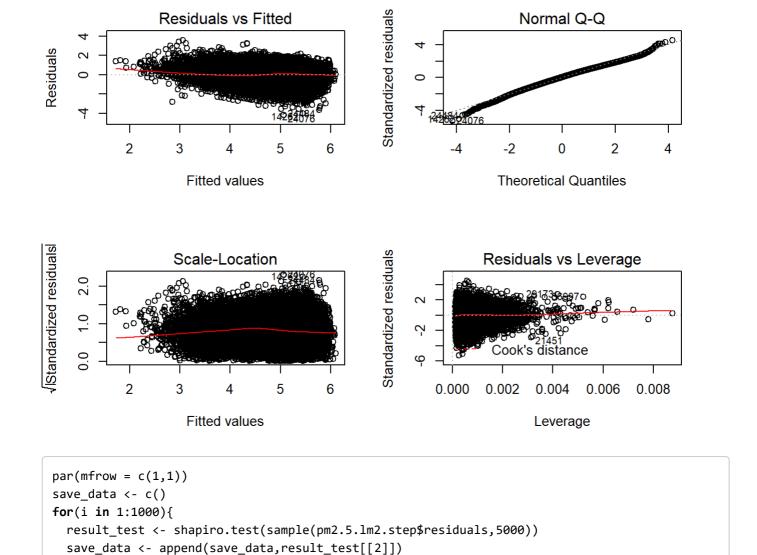
#### Choose the new model

```
summary(pm2.5.lm2.step)
```

```
## Call:
## lm(formula = ihs(pm2.5) ~ DEWP + TEMP + PRES + SW + NE + NW +
      DEWP:PRES + DEWP:SW + DEWP:NE + DEWP:NW + TEMP:PRES + TEMP:SW +
##
      TEMP:NE + TEMP:NW + PRES:NE + PRES:NW, data = train)
##
## Residuals:
      Min
               1Q Median
                              30
                                     Max
## -4.1843 -0.5125 0.0381 0.5560 3.5821
##
## Coefficients:
               Estimate Std. Error t value Pr(>|t|)
## (Intercept) 1.490e+01 1.403e+00 10.619 < 2e-16 ***
              -1.668e+00 6.208e-02 -26.876 < 2e-16 ***
## DEWP
## TEMP
              5.808e-01 6.960e-02 8.346 < 2e-16 ***
## PRES
              -8.829e-03 1.373e-03 -6.430 1.30e-10 ***
## SW
              5.663e-02 2.484e-02 2.280 0.02264 *
               1.075e+01 2.756e+00 3.900 9.66e-05 ***
## NE
              1.217e+01 1.859e+00 6.545 6.05e-11 ***
## NW
              1.689e-03 6.126e-05 27.568 < 2e-16 ***
## DEWP:PRES
## DFWP:SW
              5.509e-03 1.771e-03 3.111 0.00187 **
## DEWP:NE
              1.863e-02 2.102e-03 8.865 < 2e-16 ***
## DEWP:NW
              9.375e-03 1.428e-03 6.564 5.32e-11 ***
## TEMP:PRES -6.308e-04 6.864e-05 -9.190 < 2e-16 ***
              -1.398e-02 2.014e-03 -6.944 3.89e-12 ***
## TEMP:SW
              -3.240e-02 2.682e-03 -12.082 < 2e-16 ***
## TEMP:NE
              -2.606e-02 1.856e-03 -14.042 < 2e-16 ***
## TEMP:NW
              -1.071e-02 2.694e-03 -3.976 7.02e-05 ***
## PRES:NE
## PRES:NW
              -1.237e-02 1.818e-03 -6.803 1.04e-11 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.7914 on 30660 degrees of freedom
## Multiple R-squared: 0.4098, Adjusted R-squared: 0.4095
## F-statistic: 1331 on 16 and 30660 DF, p-value: < 2.2e-16
```

#### Diagnose the model

```
par(mfrow = c(2,2))
plot(pm2.5.lm2.step)
```



```
## [1] 1000
```

# From Normal Q-Q plot and shapiro test result, we know that the residuals are normally distributed.

#### Compare the AIC of the two model

```
AIC(pm2.5.lm1.ihs)

## [1] 74449.1

AIC(pm2.5.lm2.step)
```

length(save\_data[save\_data<=0.05])</pre>

```
## [1] 72721.64
```

```
anova(pm2.5.lm1.ihs)
```

```
## Analysis of Variance Table
## Response: ihs(pm2.5)
               Df Sum Sq Mean Sq F value
##
                1 3050.0 3050.0 4601.79 < 2.2e-16 ***
                1 5912.3 5912.3 8920.38 < 2.2e-16 ***
## TEMP
                  366.3 366.3 552.64 < 2.2e-16 ***
## PRES
                  323.0 323.0 487.36 < 2.2e-16 ***
## NE
                    105.9
                          105.9 159.78 < 2.2e-16 ***
                1 2451.2 2451.2 3698.26 < 2.2e-16 ***
## NW
## Residuals 30670 20327.7
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
anova(pm2.5.lm2.step)
```

```
## Analysis of Variance Table
##
## Response: ihs(pm2.5)
              Df Sum Sq Mean Sq
                                 F value
                                            Pr(>F)
## DEWP
               1 3050.0 3050.0 4869.9424 < 2.2e-16 ***
               1 5912.3 5912.3 9440.1855 < 2.2e-16 ***
## TEMP
                  366.3 366.3 584.8412 < 2.2e-16 ***
## PRES
                 323.0 323.0 515.7541 < 2.2e-16 ***
## SW
## NE
                 105.9
                          105.9 169.0950 < 2.2e-16 ***
               1 2451.2 2451.2 3913.7616 < 2.2e-16 ***
                         849.4 1356.2210 < 2.2e-16 ***
## DEWP:PRES
               1 849.4
               1 17.5
## DEWP:SW
                         17.5 27.9762 1.237e-07 ***
                   5.3
                                  8.3917 0.003772 **
## DEWP:NE
                           5.3
               1
                   2.3
## DEWP:NW
                           2.3
                                   3.6575 0.055826 .
              1 91.8 91.8 146.6145 < 2.2e-16 ***
## TEMP:PRES
## TEMP:SW
                   0.0
                           0.0
                                 0.0026 0.959389
## TEMP:NE
                    32.7
                           32.7 52.2416 5.022e-13 ***
                           94.5 150.9462 < 2.2e-16 ***
               1 94.5
## TEMP:NW
## PRES:NE
                    3.0
                           3.0
                                 4.8626 0.027452 *
## PRES:NW
               1
                    29.0
                           29.0 46.2789 1.044e-11 ***
## Residuals 30660 19202.1
                            0.6
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

# The second model has better performance to fit the data

## Assessing test set performance

```
pred1 <- predict(pm2.5.lm1.ihs, test)</pre>
```

```
## Warning in predict.lm(pm2.5.lm1.ihs, test): prediction from a rank-
## deficient fit may be misleading
```

```
pred2 <- predict(pm2.5.lm2.step, test)
head(pred1)</pre>
```

```
## 29681 6080 6639 22972 4895 33369
## 4.794975 4.669995 4.573542 5.889805 5.141580 4.895222
```

```
head(pred2)
```

```
## 29681 6080 6639 22972 4895 33369
## 4.652420 4.703010 4.817894 5.612322 5.139300 5.175095
```

#### Plotting of train and test data against actural performance

```
train.pred1 <- predict(pm2.5.lm1.ihs)
test.pred1 <- predict(pm2.5.lm1.ihs, test)</pre>
```

```
## Warning in predict.lm(pm2.5.lm1.ihs, test): prediction from a rank-
## deficient fit may be misleading
```

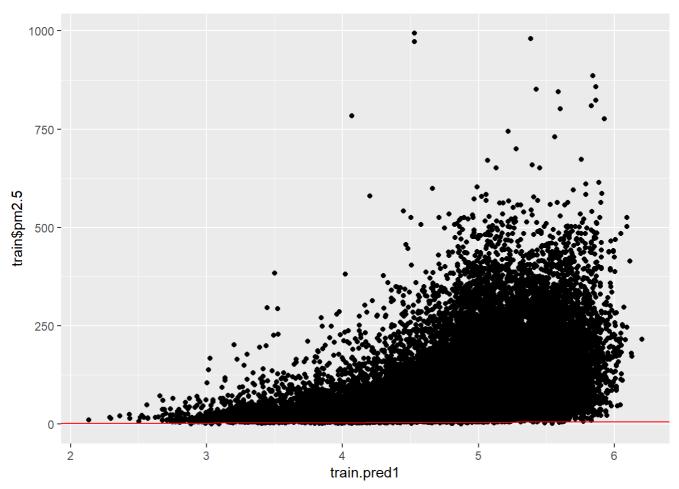
```
train.pred2 <- predict(pm2.5.lm2.ihs)
test.pred2 <- predict(pm2.5.lm2.ihs, test)</pre>
```

```
## Warning in predict.lm(pm2.5.lm2.ihs, test): prediction from a rank-
## deficient fit may be misleading
```

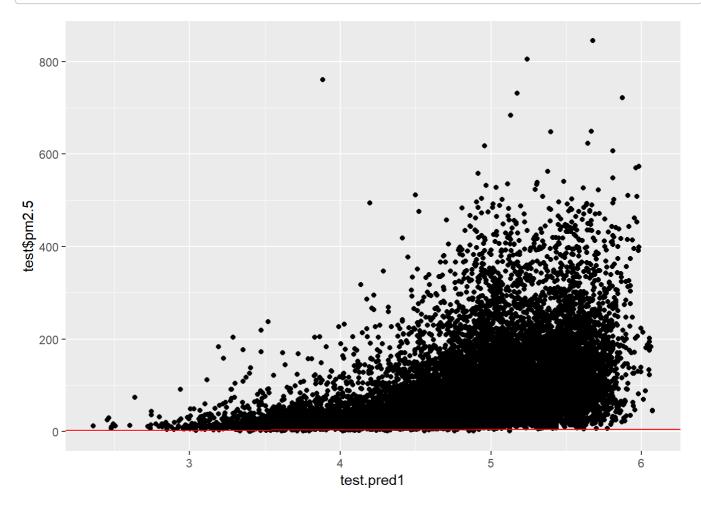
```
plot.train1 <- ggplot(train, aes(x = train.pred1, y = train$pm2.5)) +
    geom_point() +
    geom_abline(color = "red")

plot.test1 <- ggplot(test, aes(x = test.pred1, y = test$pm2.5)) +
    geom_point() +
    geom_abline(color = "red")

plot.train1</pre>
```





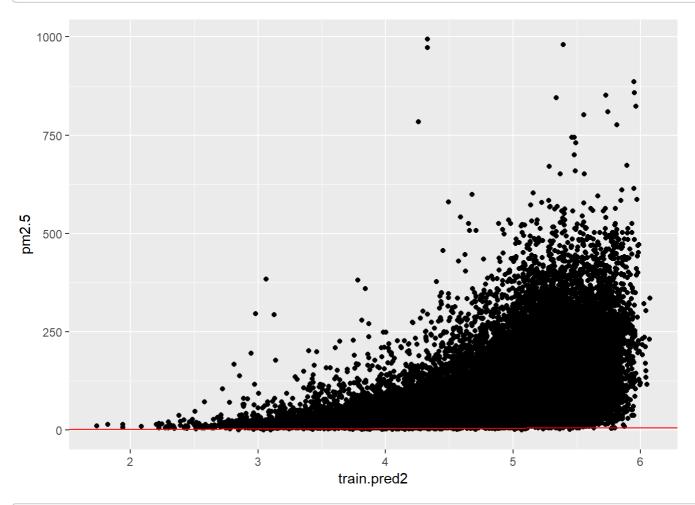


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```
plot.train2 <- ggplot(train, aes(x = train.pred2, y = pm2.5)) +
    geom_point() +
    geom_abline(color = "red")

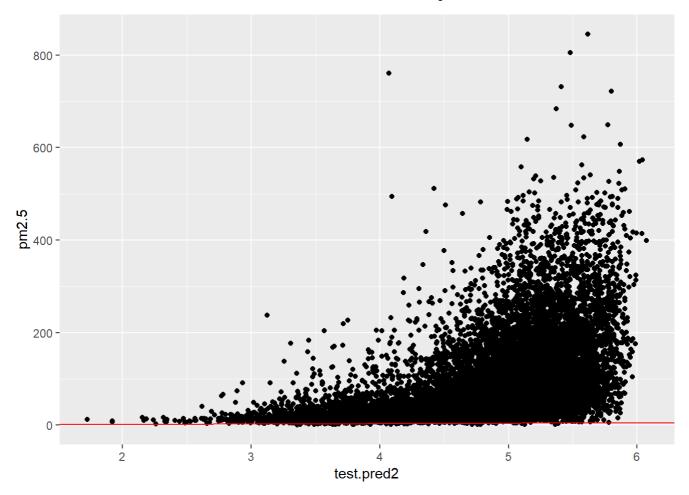
plot.test2 <- ggplot(test, aes(x = test.pred2, y = pm2.5)) +
    geom_point() +
    geom_abline(color = "red")

plot.train2</pre>
```



plot.test2

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# Check which model is fitting better Test for pm2.5.lm1.ihs

## Test for the pm.2.5.lm2.step

```
## R2 RMSE MAE
## 1 0.260747 130.9712 93.62059
```

Now we and see that the second model is more optimal model, but from the plot above, both models doesn't have good performance. And to improve the performance, we need to check if the model has multicollinearity problem.

#### VIF and Conditional Number k

```
vif(pm2.5.lm2.step)
           DFWP
                        TFMP
                                     PRFS
## 39314.494844 35236.358062
                                 9.781866
                                              5.094843 37398.601676
             NW
                   DEWP:PRES
                                  DEWP:SW
                                               DEWP:NE
                                                            DEWP:NW
## 37094.554141 39556.296408
                                 6.031905
                                              5.581207
                                                           6.861035
     TEMP:PRES
                     TEMP:SW
                                  TEMP:NE
                                               TEMP:NW
                                                            PRES:NE
                   10.650441
                                 9.714858
                                              9.452146 37046.697804
## 34893.435631
       PRES:NW
## 36885.430947
kappa(pm2.5.lm2.step)
## [1] 16862891
```

VIF is almost bigger than 5 or 10 and Condtional Number is bigger than 30, which implys that there exits severe multicollinearity problem

#### LASSO

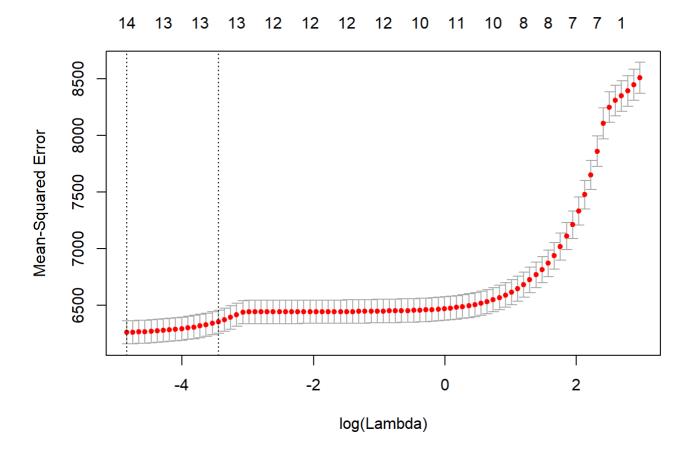
```
x = model.matrix(pm2.5.lm2.step)
y = train$pm2.5
```

#### **Setting Parameters**

```
set.seed(888)
train1 = sample(1:nrow(train), .7 * nrow(train))
test1 = (-train1)
ytest = y[test1]
lambda <- 10^seq(10, -2, length = 100)</pre>
```

#### Choosing Best lambda

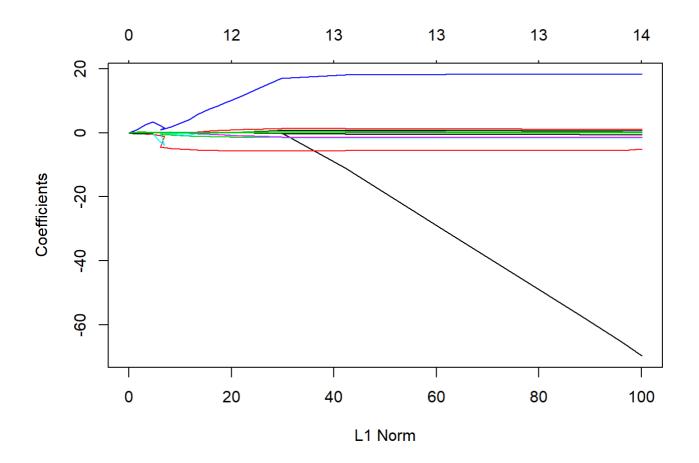
```
cv.out <- cv.glmnet(x[train1, ], y[train1], alpha = 1)
plot(cv.out)</pre>
```



bestlam <- cv.out\$lambda.min</pre>

# The Plot of Lambda Lasso Predictions

```
lasso.mod <- glmnet(x[train1, ], y[train1], alpha = 1, lambda = lambda)
plot(lasso.mod)</pre>
```



```
lasso.pred <-predict(lasso.mod, s = bestlam, newx = x[test1,])
mean((lasso.pred - ytest)^2)</pre>
```

```
## [1] 6237.932
```

# The Plot of Coefficients Varying with Parameters in Lasso Regression

#### **Coefficient Analysis**

```
out = glmnet(x, y, alpha = 1, lambda = lambda)
lasso_coef = predict(out, type = "coefficients", s= bestlam)[1:16,]
lasso_coef
```

```
PRES
##
     (Intercept)
                    (Intercept)
                                         DEWP
                                                        TEMP
##
    1.870313e+03
                  0.000000e+00 -7.004265e+01 -5.456911e+00 -1.658496e+00
##
                             NE
                                                   DEWP:PRES
                                                                   DEWP:SW
##
    1.812503e+01
                  0.000000e+00
                                0.000000e+00
                                               7.274563e-02
                                                             5.714234e-01
##
         DEWP:NE
                        DEWP:NW
                                    TEMP: PRES
                                                     TEMP:SW
##
    9.260656e-01
                  1.102196e-02 -2.130212e-04 -1.573530e+00 -1.447454e+00
##
         TEMP:NW
## -5.597322e-01
```

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### Aggregate to daily maxima for model building

```
summary(pm2.5)
```

```
##
        pm2.5
                         DEWP
                                           TEMP
                                                            PRES
                           :-40.000
##
   Min. : 0.00
                    Min.
                                      Min.
                                             :-19.00
                                                       Min.
                                                              : 991
   1st Qu.: 29.00
                    1st Qu.:-10.000
                                      1st Qu.: 2.00
                                                       1st Qu.:1008
   Median : 72.00
                    Median : 2.000
                                      Median : 14.00
                                                       Median :1016
         : 98.71
                                                             :1016
##
   Mean
                          : 1.817
                                      Mean
                                           : 12.45
                                                       Mean
                    Mean
                    3rd Qu.: 15.000
   3rd Qu.:137.00
                                      3rd Qu.: 23.00
                                                       3rd Qu.:1025
##
         :994.00
##
   Max.
                    Max.
                         : 28.000
                                      Max.
                                             : 42.00
                                                       Max.
                                                              :1046
   cbwd
                   date
                                         SW
                                                          NE
##
   NE: 4997
              Min.
                     :2010-01-01
                                  Min.
                                          :0.0000
                                                    Min.
                                                           :0.000
   NW:14150
              1st Qu.:2011-04-02
                                   1st Qu.:0.0000
                                                    1st Qu.:0.000
   SE:15290
              Median :2012-07-01
                                   Median :0.0000
                                                    Median:0.000
##
                     :2012-07-01
##
   SW: 9387
              Mean
                                   Mean
                                          :0.2142
                                                    Mean
                                                           :0.114
              3rd Qu.:2013-10-01
                                   3rd Qu.:0.0000
##
                                                    3rd Qu.:0.000
##
                    :2014-12-31
                                   Max. :1.0000
                                                    Max.
                                                           :1.000
##
                          SE
         NW
##
   Min.
          :0.0000
                    Min.
                           :0.0000
##
   1st Qu.:0.0000
                    1st Qu.:0.0000
   Median :0.0000
                    Median :0.0000
##
   Mean
          :0.3229
                    Mean
                           :0.3489
   3rd Qu.:1.0000
                    3rd Qu.:1.0000
          :1.0000
                           :1.0000
##
   Max.
                    Max.
```

```
dailyPM2.5 <- aggregate(pm2.5$pm2.5, by = list(pm2.5$date), FUN = max)
colnames(dailyPM2.5) <- c("date", "pm2.5")
print(dailyPM2.5)</pre>
```

##	date	pm2.5
## 1	2010-01-01	345
## 2	2010-01-02	181
## 3	2010-01-03	107
## 4	2010-01-04	79
## 5	2010-01-05	106
## 6	2010-01-06	132
## 7	2010-01-07	198
## 8	2010-01-08	275
## 9	2010-01-09	196
## 10	2010-01-10	88
## 11	2010-01-11	28
## 12	2010-01-12	37
## 13	2010-01-13	96
## 14	2010-01-14	257
## 15	2010-01-15	102
## 16	2010-01-16	271
## 17	2010-01-17	317
## 18	2010-01-17	435
## 19	2010-01-19	485
## 20	2010-01-19	389
## 20	2010-01-20	72
		72 49
	2010-01-22	
## 23	2010-01-23	303
## 24	2010-01-24	331
## 25	2010-01-25	249
## 26	2010-01-26	353
## 27	2010-01-27	300
## 28	2010-01-28	34
## 29	2010-01-29	52
## 30	2010-01-30	94
## 31	2010-01-31	145
## 32	2010-02-01	78
## 33	2010-02-02	104
## 34	2010-02-03	161
## 35	2010-02-04	104
## 36	2010-02-05	126
## 37	2010-02-06	189
## 38	2010-02-07	164
## 39	2010-02-08	258
## 40	2010-02-09	273
## 41	2010-02-10	22
## 42	2010-02-11	24
## 43	2010-02-12	69
## 44	2010-02-13	267
## 45	2010-02-14	980
## 46	2010-02-15	116
## 47	2010-02-16	198
## 48	2010-02-17	247
## 49	2010-02-18	296
## 50	2010-02-19	191
## 51	2010-02-20	282
## 52	2010-02-21	261
## 53	2010-02-22	154
## 54	2010-02-23	282
## 55	2010-02-24	368
## 56	2010-02-25	266
50		_00

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##	57	2010-02-26	103
##	58	2010-02-27	138
##	59	2010-02-28	161
##	60	2010-03-01	99
##	61	2010-03-02	169
##	62	2010-03-03	247
##	63	2010-03-04	269
##	64	2010-03-05	248
##	65	2010-03-06	103
##	66	2010-03-07	134
##	67	2010-03-08	76
##	68	2010-03-08	51
##	69	2010-03-09	111
	70	2010-03-10	224
##	76 71		
##	71 72	2010-03-12	314
##		2010-03-13	82
##	73	2010-03-14	116
##	74	2010-03-15	220
##	75	2010-03-16	89
##	76	2010-03-17	85
##	77	2010-03-18	239
##	78	2010-03-19	250
##	79	2010-03-20	700
##	80	2010-03-21	121
##	81	2010-03-22	784
##	82	2010-03-23	86
##	83	2010-03-24	134
##	84	2010-03-25	69
##	85	2010-03-26	142
##	86	2010-03-27	134
##	87	2010-03-28	120
##	88	2010-03-29	366
##	89	2010-03-30	395
##	90	2010-03-31	321
##	91	2010-04-01	81
##	92	2010-04-02	77
##	93	2010-04-03	168
##	94	2010-04-04	206
##	95	2010-04-05	199
##	96	2010-04-06	34
##	97	2010-04-07	140
##	98	2010-04-08	158
##	99	2010-04-09	150
##		2010-04-10	102
##		2010-04-11	91
	102	2010-04-12	116
		2010-04-13	69
##		2010-04-14	100
	105	2010-04-15	237
##		2010-04-16	289
##		2010 04 10	223
##		2010-04-18	351
##		2010-04-18	389
	110	2010-04-19	110
		2010-04-20	52
	112	2010-04-21	53
	113	2010-04-22	65
		2010-04-23	
π <b>π</b>	±±+	2010-04-24	
		(1 ) 1 (t / DN 40 F	

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##	115	2010-04-25	142
##	116	2010-04-26	26
##	117	2010-04-27	50
##	118	2010-04-28	38
##	119	2010-04-29	27
##	120	2010-04-30	54
##	121	2010-05-01	97
##	122	2010-05-01	151
##	123	2010-05-03	160
##	124	2010-05-04	228
##	125	2010-05-05	283
##	126	2010-05-06	41
##	127	2010-05-07	228
##	128	2010-05-08	203
##	129	2010-05-09	294
##	130	2010-05-10	132
##	131	2010-05-11	54
##	132	2010-05-12	55
##	133	2010-05-13	83
##	134	2010-05-14	216
##	135	2010-05-15	238
##	136	2010-05-16	185
##	137	2010-05-17	362
##	138	2010-05-18	105
##	139	2010-05-19	50
##	140	2010-05-20	113
##	141	2010-05-21	234
##	142	2010-05-21	229
##	143	2010-05-22	176
	_		
##	144	2010-05-24	100
##	145	2010-05-25	57
##	146	2010-05-26	139
##	147	2010-05-27	414
	148	2010-05-28	206
	149	2010-05-29	314
##	150	2010-05-30	97
	151	2010-05-31	179
##	152	2010-06-01	290
##	153	2010-06-02	324
##	154	2010-06-03	190
##	155	2010-06-04	210
##	156	2010-06-05	255
##	157	2010-06-06	306
##	158	2010-06-07	172
##	159	2010-06-08	191
##	160	2010-06-09	273
##	161	2010-06-10	80
##		2010-06-11	100
	163	2010-06-12	160
##		2010-06-13	198
##		2010-06-13	142
##		2010-06-14	229
##		2010-06-15	155
	168	2010-06-17	51 100
	169	2010-06-18	100
	170	2010-06-19	120
	171	2010-06-20	240
##	172	2010-06-21	132

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##	173	2010-06-22	140
##	174	2010-06-23	212
##	175	2010-06-24	120
##	176	2010-06-25	231
##	177	2010-06-26	252
##	178	2010-06-27	163
##	179	2010-06-28	200
##	180	2010-06-29	249
##	181	2010-06-30	235
	_		
##	182	2010-07-01	241
##	183	2010-07-02	46
##	184	2010-07-03	100
##	185	2010-07-04	168
##	186	2010-07-05	132
##	187	2010-07-06	62
##	188	2010-07-07	80
##	189	2010-07-08	77
##	190	2010-07-09	123
##	191	2010-07-10	117
##	192	2010-07-11	231
##	193	2010-07-12	211
##	194	2010-07-13	206
##	195	2010-07-14	174
##	196	2010-07-15	286
##	197	2010-07-16	310
##	198	2010-07-17	196
##	199	2010-07-18	267
##	200	2010-07-19	286
##	201	2010-07-20	63
##	202	2010-07-21	109
##	203	2010-07-22	227
##	204	2010-07-23	255
##	205	2010-07-24	145
	206	2010-07-25	231
	207	2010-07-26	269
##		2010-07-27	243
		2010-07-28	
##			198
	210	2010-07-29	285
	211	2010-07-30	302
	212	2010-07-31	306
	213	2010-08-01	70
	214	2010-08-02	117
##	215	2010-08-03	199
##		2010-08-04	205
##	217	2010-08-05	45
##	218	2010-08-06	48
##	219	2010-08-07	119
##	220	2010-08-08	221
##	221	2010-08-09	297
##	222	2010-08-10	360
##	223	2010-08-11	223
##	224	2010-08-12	117
##	225	2010-08-13	194
##	226	2010-08-14	246
	227	2010-08-15	266
	228	2010-08-16	188
##	229	2010-08-17	194
	230	2010-08-18	337
-	-		

## 231 2010-08-19 210

11 11	231	2010 00 15	210
##	232	2010-08-20	195
##	233	2010-08-21	62
##	234	2010-08-22	48
##	235	2010-08-23	169
##	236	2010-08-24	211
##	237	2010-08-25	184
##		2010-08-26	133
##		2010-08-27	66
##	240	2010-08-28	127
##	241	2010-08-29	195
##	242	2010-08-30	224
##		2010-08-30	116
##	244	2010-08-31	116
		2010-09-01	
##			249
##		2010-09-03	284
	247	2010-09-04	159
##	248	2010-09-05	185
##		2010-09-06	232
##	250	2010-09-07	278
##	251	2010-09-08	133
##	252	2010-09-09	227
##	253	2010-09-10	212
##	254	2010-09-11	298
##	255	2010-09-12	240
##	256	2010-09-13	269
##	257	2010-09-14	310
##	258	2010-09-15	455
##	259	2010-09-16	262
##	260	2010-09-17	117
##	261	2010-09-18	54
##	262	2010-09-19	411
##	263	2010-09-20	147
##	264	2010-09-21	276
##	265	2010-09-22	307
##	266	2010-09-23	290
##	267	2010-09-24	392
##	268	2010-09-25	230
##	269	2010-09-26	335
##	270	2010-09-27	314
##	271	2010-09-28	355
##	272	2010-09-29	332
##	273	2010-09-30	249
##	274	2010-10-01	274
##	275	2010-10-02	168
##	276	2010-10-03	13
##	277	2010-10-04	47
##	278	2010-10-05	192
##	279	2010-10-06	534
##	280	2010-10-07	505
##	281	2010-10-08	470
##	282	2010-10-09	449
##	283	2010-10-10	438
##	284	2010-10-11	32
##	285	2010-10-12	154
##	286	2010-10-12	193
##	287	2010-10-13	41
##	288	2010-10-14	77
		unz/Desktop/PM2.	
/\. /\l	sers/Rt	.inz/DeSKtOD/PIVIン:	ン/ PIVI / 5

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##	289	2010-10-16	143
##	290	2010-10-17	89
##	291	2010-10-18	92
##	292	2010-10-19	93
##	293	2010-10-20	92
##	294	2010-10-21	180
##	295	2010-10-22	204
##	296	2010-10-23	278
##	297	2010-10-24	262
##	298	2010-10-25	17
##	299	2010-10-26	35
##	300	2010-10-27	164
##	301	2010-10-28	189
##	302	2010-10-29	93
##	303	2010-10-30	102
##	304	2010-10-31	129
##	305	2010-11-01	210
##	306	2010-11-02	315
##	307	2010-11-03	274
##	308	2010-11-04	136
##	309	2010-11-05	232
##	310	2010-11-06	481
##	311	2010-11-07	479
##	312	2010-11-08	42
##	313	2010-11-09	146
##	314	2010-11-10	230
##	315	2010-11-11	302
##	316	2010-11-12	125
##	317	2010-11-13	43
##	318	2010-11-14	44
##	319	2010-11-15	152
##	320	2010-11-16	227
##	321	2010-11-17	525
##	322	2010-11-18	521
##	323	2010-11-19	569
##	324	2010-11-20	454
##	325	2010-11-21	462
##	326	2010-11-22	223
##	327	2010-11-23	264
##	328	2010-11-24	256
##	329	2010-11-25	177
##	330	2010-11-26	206
##	331	2010-11-27	69
##	332	2010-11-28	379
##	333	2010-11-29	443
##	334	2010-11-30	267
##	335	2010-12-01	288
##	336	2010-12-02	270
##	337	2010-12-03	193
##	338	2010-12-04	309
##	339	2010-12-05	322
##	340	2010-12-06	46
##	341	2010-12-07	127
##	342	2010-12-08	100
##	343	2010-12-09	257
	344	2010-12-10	237
	345	2010-12-11	122
##	346	2010-12-12	179

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##	347	2010-12-13	140
##	348	2010-12-14	24
##	349	2010-12-15	54
##	350	2010-12-16	98
##	351	2010-12-17	379
##	352	2010-12-18	454
##	353	2010-12-19	528
##	354	2010-12-20	352
##	355	2010-12-21	615
##	356	2010 12 21	573
##	357	2010-12-22	52
##	358	2010-12-23	116
##	359	2010-12-24	135
##	360	2010-12-26	163
##	361	2010-12-27	161
##	362	2010-12-28	106
##	363	2010-12-29	73
##	364	2010-12-30	28
##	365	2010-12-31	28
##	366	2011-01-01	204
##	367	2011-01-02	76
##	368	2011-01-03	286
##	369	2011-01-04	275
##	370	2011-01-05	31
##	371	2011-01-06	28
##	372	2011-01-07	109
##	373	2011-01-08	181
##	374	2011-01-09	135
##	375	2011-01-10	266
##	376	2011-01-11	105
##	377	2011-01-12	124
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##	1575	2014-04-24	140
##	1576	2014-04-25	177
##	1577	2014-04-26	61
##	1578	2014-04-27	135
##	1579	2014-04-28	132
##	1580	2014-04-29	136
##	1581	2014-04-30	221
##	1582	2014-05-01	202
##	1583	2014-05-02	60
##	1584	2014-05-03	167
##	1585	2014-05-04	98
##	1586	2014-05-05	85
##	1587	2014-05-06	154
##	1588	2014-05-07	159
##	1589	2014-05-08	147
##	1590	2014-05-09	91
##	1591	2014-05-10	71
##	1592	2014-05-11	57
##	1593	2014-05-12	82
##	1594	2014-05-13	112
##	1595	2014-05-14	38
##	1596	2014-05-15	121
##	1597	2014-05-16	271
##	1598	2014-05-17	109
##	1599	2014-05-18	198
##	1600	2014-05-19	167
##	1601	2014-05-20	215
##	1602	2014-05-21	150
##	1603	2014-05-22	259
##	1604	2014-05-23	110
##	1605	2014-05-24	104
##	1606	2014-05-25	160
##	1607	2014-05-26	31
##	1608	2014-05-27	102
##		2014-05-28	49
##	1610	2014-05-29	78
##			113
##	1612	2014-05-31	143
##		2014-06-01	83
##	1614		55
##	1615	2014-06-03	64
##			107
##		2014-06-05	108
##		2014-06-06	163
##		2014-06-07	346
##		2014-06-08	109
##		2014-06-09	
##		2014-06-10	99
		nz/Desktop/PM2	
, 0./0	3013/RU	mz/Deskiob/EIMZ	.J/1 'IVIZ.Ö

8/201	8		
##	1623	2014-06-11	123
##	1624	2014-06-12	51
##	1625	2014-06-13	126
##	1626	2014-06-14	106
##	1627	2014-06-15	169
##	1628	2014-06-16	196
##	1629	2014-06-17	225
##	1630	2014-06-18	144
##	1631	2014-06-19	200
##	1632	2014-06-20	94
##	1633	2014-06-21	76
##	1634	2014-06-22	51
##	1635	2014-06-23	36
##	1636	2014-06-24	68
##	1637	2014-06-25	150
##	1638	2014-06-26	199
##	1639	2014-06-27	62
##	1640		
		2014-06-28	35 77
##	1641	2014-06-29	
	1642 1643	2014-06-30 2014-07-01	104
##	1644	2014-07-01	168
##	1645	2014-07-02	114 280
##	1646	2014-07-03	303
##	1647	2014-07-04	184
##	1648	2014-07-05	252
##	1649	2014-07-07	239
##	1650	2014-07-08	196
##	1651	2014-07-09	85
##	1652	2014-07-10	70
##	1653		64
##	1654		160
##	1655		58
##	1656		58
##	1657	2014-07-15	81
##	1658	2014-07-16	172
##	1659	2014-07-17	195
##	1660		220
##	1661	2014-07-19	87
##	1662	2014-07-20	87
##	1663	2014-07-21	60
##	1664	2014-07-22	110
##	1665	2014-07-23	46
##	1666	2014-07-24	104
##	1667	2014-07-25	160
##	1668	2014-07-26	149
##	1669	2014-07-27	133
##	1670	2014-07-28	143
##	1671	2014-07-29	189
##	1672	2014-07-30	212
##	1673	2014-07-31	250
##	1674	2014-08-01	196
##	1675	2014-08-02	121
##	1676		201
##	1677	2014-08-04	92
##	1678	2014-08-05	51
##	1679		71
##	1680	2014-08-07	142

8/201	Ö		
##	1681	2014-08-08	90
##	1682	2014-08-09	160
##	1683	2014-08-10	78
##	1684	2014-08-11	86
##	1685	2014-08-12	64
##	1686	2014-08-13	55
##	1687	2014-08-14	48
##	1688	2014-08-15	121
##	1689	2014-08-16	97
##	1690	2014-08-17	209
##	1691	2014-08-18	121
##	1692	2014-08-19	123
##	1693	2014-08-20	202
##	1694	2014-08-21	173
##	1695	2014-08-22	124
##	1696	2014-08-23	171
##	1697	2014-08-24	46
##	1698	2014-08-25	30
##	1699	2014-08-26	41
##	1700	2014-08-27	94
##	1701	2014-08-28	129
##	1702	2014-08-29	139
##	1703	2014-08-30	196
##	1704	2014-08-31	139
##	1705	2014-09-01	175
##	1706	2014-09-02	59
##	1707	2014-09-03	23
##	1708	2014-09-04	81
##			155
##	1710	2014-09-06	157
##	1711	2014-09-07	207
##	1712		104
##	1713	2014-09-09	80
		2014-09-10	
		2014-09-11	
		2014-09-12	
		2014-09-13	108
		2014-09-14	106
		2014-09-15	
		2014-09-16	98
		2014-09-17	75
		2014-09-18	
		2014-09-19	
		2014-09-20	228
		2014-09-21	229
		2014-09-22	
		2014-09-23	
		2014-09-24	
		2014-09-25	168
		2014-09-26	219
		2014-09-27	
		2014-09-28	101
		2014-09-29	107
		2014-09-29	60
		2014-09-30	
		2014-10-01	
		2014-10-02	207
##	T/30	2014-10-04	130

## 1739 2014-10-05

## 1740 2014-10-06

86

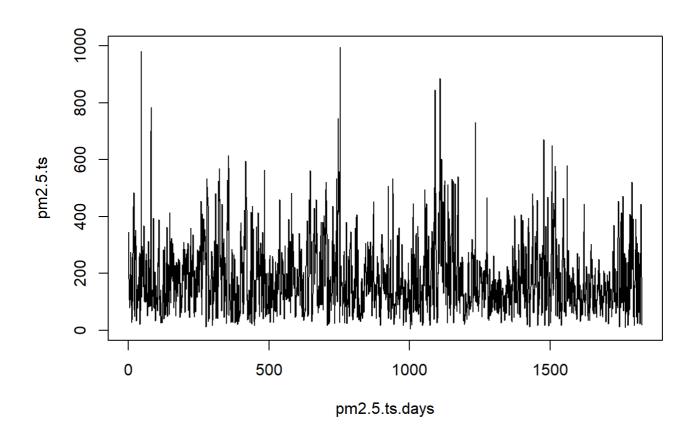
79

##	1740	2014-10-06	79
##	1741	2014-10-07	326
##	1742	2014-10-08	432
##	1743	2014-10-09	454
##	1744	2014-10-10	430
##	1745	2014-10-11	328
##	1746	2014-10-12	13
##	1747	2014-10-13	59
##	1748	2014-10-14	128
##	1749	2014-10-15	149
##	1750	2014-10-15	80
	1751		
##		2014-10-17	225
##	1752	2014-10-18	382
##	1753	2014-10-19	413
##	1754	2014-10-20	285
##	1755	2014-10-21	97
##	1756	2014-10-22	132
##	1757	2014-10-23	214
##	1758	2014-10-24	383
##	1759	2014-10-25	472
##	1760	2014-10-26	395
##	1761	2014-10-27	68
##	1762	2014-10-28	99
##	1763	2014-10-29	215
##	1764	2014-10-30	272
##	1765	2014-10-31	232
##	1766	2014-11-01	215
##	1767	2014-11-02	11
##	1768	2014-11-03	57
##	1769	2014-11-04	255
##	1770	2014-11-05	239
##	1771	2014-11-05	66
			90
##	1772	2014-11-07	
##		2014-11-08	97
		2014-11-09	116
		2014-11-10	
		2014-11-11	
		2014-11-12	17
		2014-11-13	53
		2014-11-14	
		2014-11-15	
##	1781	2014-11-16	304
##	1782	2014-11-17	72
##	1783	2014-11-18	203
##	1784	2014-11-19	409
##	1785	2014-11-20	393
##	1786	2014-11-21	405
##	1787	2014-11-22	146
##	1788	2014-11-23	193
##	1789	2014-11-24	289
		2014-11-25	342
		2014-11-26	
		2014-11-27	
		2014-11-28	
		2014-11-29	393
		2014-11-30	
		2014-12-01	
/C:/U	sers/Ru	nz/Desktop/PM2	.5/PM2.5_

```
## 1797 2014-12-02
                     125
## 1798 2014-12-03
                     126
## 1799 2014-12-04
                      18
## 1800 2014-12-05
                     158
## 1801 2014-12-06
                     150
## 1802 2014-12-07
                     174
## 1803 2014-12-08
                     284
## 1804 2014-12-09
                      390
## 1805 2014-12-10
                     331
## 1806 2014-12-11
                      92
## 1807 2014-12-12
                      47
## 1808 2014-12-13
                     112
## 1809 2014-12-14
                     212
## 1810 2014-12-15
                     307
## 1811 2014-12-16
                      25
## 1812 2014-12-17
                     245
## 1813 2014-12-18
                      254
## 1814 2014-12-19
                     274
## 1815 2014-12-20
                     212
## 1816 2014-12-21
## 1817 2014-12-22
                     145
## 1818 2014-12-23
                      234
## 1819 2014-12-24
                      23
## 1820 2014-12-25
                      69
## 1821 2014-12-26
                     271
## 1822 2014-12-27
                     363
## 1823 2014-12-28
                     444
## 1824 2014-12-29
                     373
## 1825 2014-12-30
                     189
## 1826 2014-12-31
                      20
```

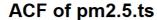
### Create time series of pm2.5

```
pm2.5.ts <- ts(dailyPM2.5$pm2.5)</pre>
pm2.5.ts.days <- c(1:length(dailyPM2.5$pm2.5))</pre>
plot(pm2.5.ts.days, pm2.5.ts, type = "l")
```

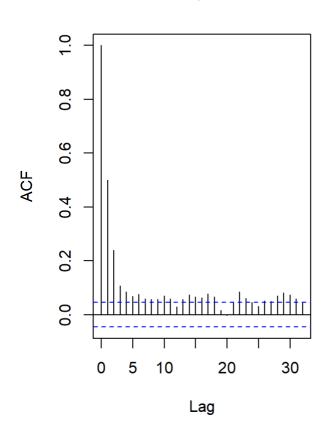


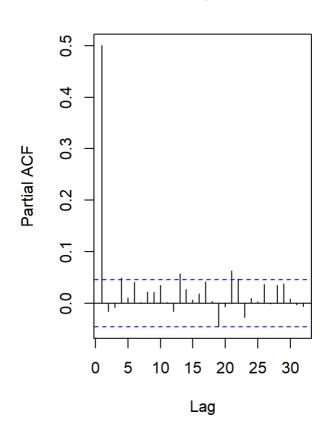
## ACF and PACF of the pm2.5 time series

```
par(mfrow = c(1,2))
acf(pm2.5.ts[pm2.5.ts.days], main = "ACF of pm2.5.ts")
pacf(pm2.5.ts[pm2.5.ts.days], main = "PACF of pm2.5.ts")
```



#### PACF of pm2.5.ts





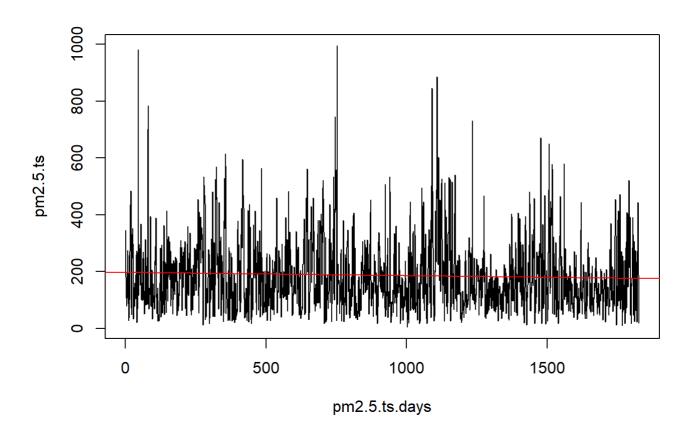
par(mfrow = c(1,1))

# The pm2.5 time series is stationary Model the trend of the pm2.5 time series

pm2.5.ts.trend <- lm(pm2.5.ts ~ pm2.5.ts.days)
summary(pm2.5.ts.trend)</pre>

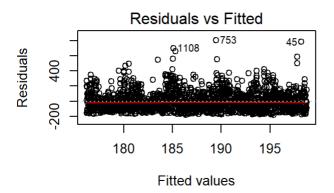
```
##
## Call:
## lm(formula = pm2.5.ts ~ pm2.5.ts.days)
## Residuals:
##
      Min
                1Q Median
                                3Q
                                       Max
## -182.37 -93.31 -28.44
                             66.02 804.54
##
## Coefficients:
##
                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                 198.783067
                              5.935808 33.489
                                                 <2e-16 ***
## pm2.5.ts.days -0.012375
                              0.005628 -2.199
                                                  0.028 *
## ---
## Signif. codes:
                     '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 126.8 on 1824 degrees of freedom
## Multiple R-squared: 0.002644,
                                    Adjusted R-squared: 0.002097
## F-statistic: 4.835 on 1 and 1824 DF, p-value: 0.02802
```

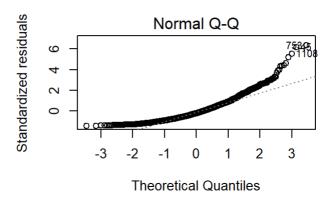
```
plot(pm2.5.ts.days, pm2.5.ts, type = "1")
abline(pm2.5.ts.trend, col = "red")
```

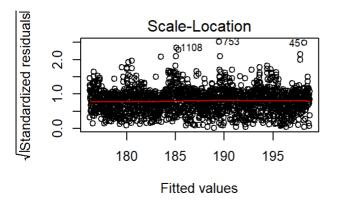


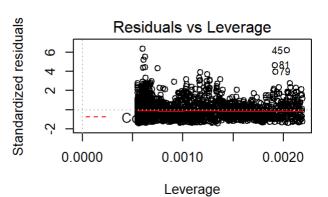
### Test the result

```
par(mfrow = c(2,2))
plot(pm2.5.ts.trend)
```



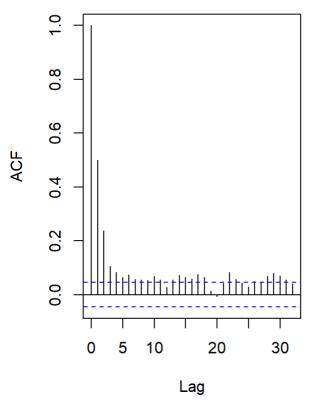


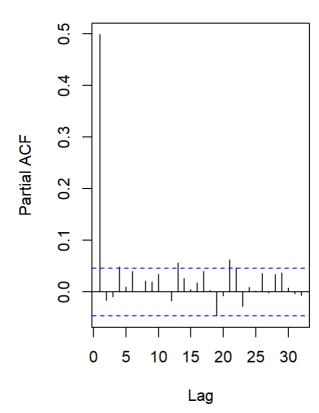




```
par(mfrow = c(1,1))
par(mfrow = c(1,2))
acf(pm2.5.ts.trend$residuals, main = "ACF of the residuals from pm2.5.ts.trend")
pacf(pm2.5.ts.trend$residuals, main = "PACF of the residuals from pm2.5.ts.trend")
```

#### ACF of the residuals from pm2.5.ts.tPACF of the residuals from pm2.5.ts.t





```
par(mfrow = c(1,1))
shapiro.test(pm2.5.ts.trend$residuals)

##
## Shapiro-Wilk normality test
##
## data: pm2.5.ts.trend$residuals
## W = 0.90284, p-value < 2.2e-16</pre>
```

The p-value of Shapiro-Wilk normality test is less than 0.05 implying that residual is significantly not normally distributed. No pattern is apparent on the plot of residuals against the predicted values, or the risiduals over time. As shown the ACF plot of pm2.5.ts, there exists a seasonality of 7 days. There are peaches in every 7 days and there are a lot of spikes in pacf plot. Thus we

## consider to add seasonality components to our model.

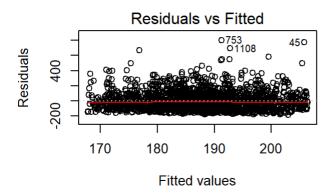
## Model the seasonality of the pm2.5 time series

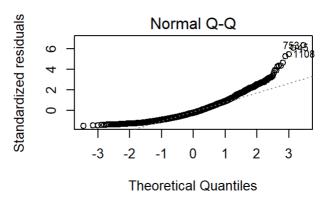
```
pm2.5.ts.trend.seasonal <- lm(pm2.5.ts ~ pm2.5.ts.days + sin(2*pi*pm2.5.ts.days/7) + cos(2*pi
*pm2.5.ts.days/7))
summary(pm2.5.ts.trend.seasonal)</pre>
```

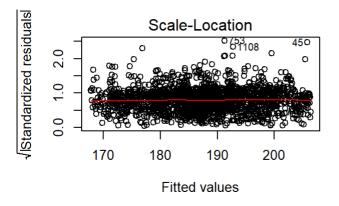
```
##
## Call:
## lm(formula = pm2.5.ts \sim pm2.5.ts.days + sin(2 * pi * pm2.5.ts.days/7) +
      cos(2 * pi * pm2.5.ts.days/7))
##
## Residuals:
      Min
           1Q Median
                              3Q
                                     Max
## -189.91 -91.81 -27.89 65.39 802.76
##
## Coefficients:
                                 Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                               198.757488 5.932490 33.503 <2e-16 ***
                                -0.012350 0.005625 -2.196
## pm2.5.ts.days
                                                              0.0282 *
## sin(2 * pi * pm2.5.ts.days/7) 6.658060 4.192037 1.588 0.1124
## cos(2 * pi * pm2.5.ts.days/7) -5.185897 4.194319 -1.236 0.2165
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 126.7 on 1822 degrees of freedom
## Multiple R-squared: 0.004856, Adjusted R-squared: 0.003218
## F-statistic: 2.964 on 3 and 1822 DF, p-value: 0.03104
```

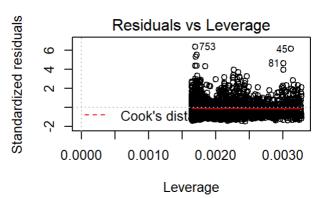
### Diagnose the result

```
par(mfrow = c(2,2))
plot(pm2.5.ts.trend.seasonal)
```



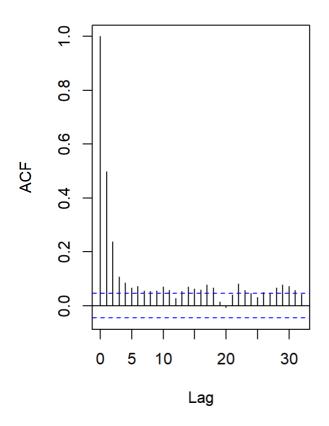


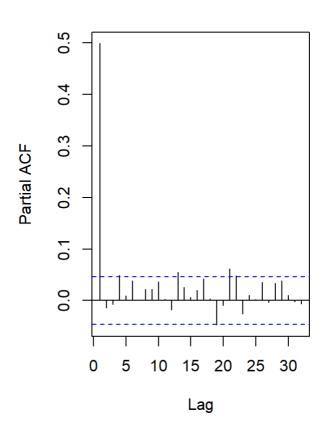




par(mfrow = c(1,2))
acf(pm2.5.ts.trend.seasonal\$residuals, main = "ACF plot of Residuals from pm2.5.ts.trend.seasonal")
pacf(pm2.5.ts.trend.seasonal\$residuals, main = "PACF plot of Residuals from pm2.5.ts.trend.seasonal")

#### plot of Residuals from pm2.5.ts.trend plot of Residuals from pm2.5.ts.trenc





```
par(mfrow=c(1,1))
shapiro.test(pm2.5.ts.trend.seasonal$residuals)

##
## Shapiro-Wilk normality test
##
## data: pm2.5.ts.trend.seasonal$residuals
## W = 0.90259, p-value < 2.2e-16</pre>
```

The p-value of Shapiro-Wilk normality test is less than 0.05 implying that residual is significantly not normally distributed, which violates assumption of linear regression. Then we use box cox transformation to normalize the data, and then refit the linear model. And still acf plot shows potential seasonality.

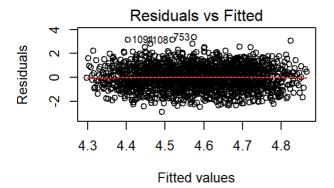
### **Box-cox transformation**

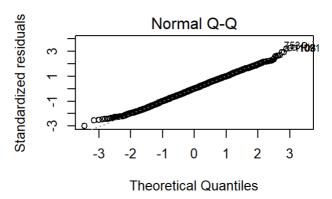
```
L <- boxcox(pm2.5.ts.trend.seasonal, plotit = F)x[which.max(boxcox(pm2.5.ts.trend.seasonal, plotit = F)$y)] pm2.5.ts.trend.seasonal1 <- lm(pm2.5.ts^L ~ pm2.5.ts.days + sin(2*pi*pm2.5.ts.days/7) + cos(2 *pm2.5.ts.days/7)) summary(pm2.5.ts.trend.seasonal1)
```

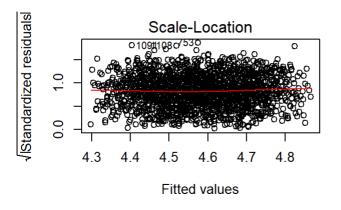
```
## Call:
## lm(formula = pm2.5.ts^L \sim pm2.5.ts.days + sin(2 * pi * pm2.5.ts.days/7) +
       cos(2 * pm2.5.ts.days/7))
##
## Residuals:
##
      Min
              10 Median
                               3Q
## -2.8710 -0.6531 0.0033 0.6640 3.3547
##
## Coefficients:
                                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                                4.664e+00 4.504e-02 103.562 < 2e-16 ***
                                -9.280e-05 4.271e-05 -2.173
## pm2.5.ts.days
                                                               0.0299 *
## sin(2 * pi * pm2.5.ts.days/7) 6.513e-02 3.183e-02 2.046
                                                               0.0409 *
## cos(2 * pm2.5.ts.days/7)
                                1.419e-01 3.183e-02 4.459 8.72e-06 ***
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.9619 on 1822 degrees of freedom
## Multiple R-squared: 0.01555, Adjusted R-squared: 0.01393
## F-statistic: 9.593 on 3 and 1822 DF, p-value: 2.767e-06
```

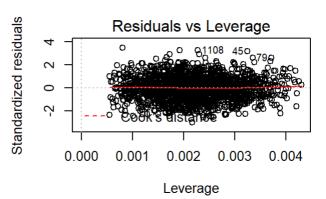
### Diagnose the model

```
par(mfrow = c(2,2))
plot(pm2.5.ts.trend.seasonal1)
```



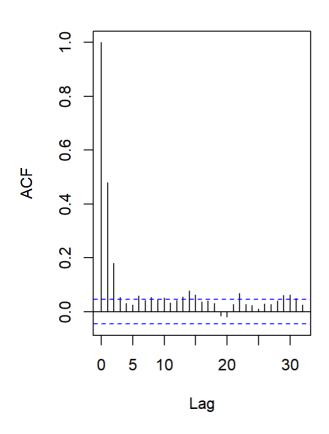


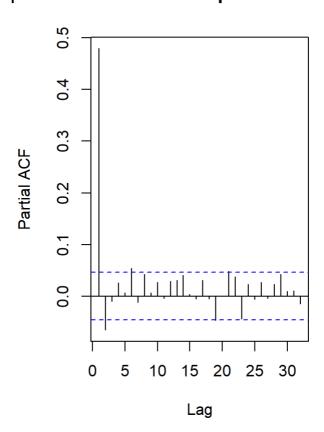




par(mfrow = c(1,2))
acf(pm2.5.ts.trend.seasonal1\$residuals, main = "ACF plot of Residuals from pm2.5.ts.trend.sea
sonal1")
pacf(pm2.5.ts.trend.seasonal1\$residuals, main = "PACF plot of Residuals from pm2.5.ts.trend.s
easonal1")

#### lot of Residuals from pm2.5.ts.trend.plot of Residuals from pm2.5.ts.trend





```
par(mfrow=c(1,1))
shapiro.test(pm2.5.ts.trend.seasonal1$residuals)

##
## Shapiro-Wilk normality test
##
## data: pm2.5.ts.trend.seasonal1$residuals
## W = 0.99828, p-value = 0.05453
```

The p-value of Shapiro-Wilk normality test is bigger than 0.05 implying that the residual confers to normal distribution, which agree with assumption of linear regression.

Build the arima model of the residual of the linear model of the pm2.5 time series

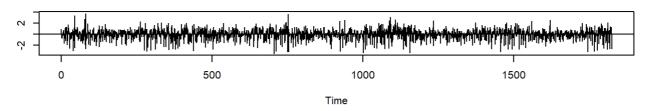
```
pm2.5.ts.autoarima <- auto.arima(pm2.5.ts.trend.seasonal1$residuals)
summary(pm2.5.ts.autoarima)</pre>
```

```
## Series: pm2.5.ts.trend.seasonal1$residuals
## ARIMA(3,0,3) with zero mean
##
## Coefficients:
##
            ar1
                    ar2
                              ar3
                                               ma2
                                                         ma3
##
         0.3495
                0.8731
                         -0.2568
                                   0.1605
                                           -0.8612
                                                    -0.2017
         0.0725 0.0776
                           0.0559
                                   0.0726
                                            0.0584
                                                      0.0464
## s.e.
##
## sigma^2 estimated as 0.7037:
                                  log likelihood=-2267.31
## AIC=4548.62
                 AICc=4548.68
                                 BIC=4587.19
## Training set error measures:
##
                                   RMSE
                                              MAE
                                                      MPE
                                                               MAPE
                                                                         MASE
## Training set -0.0001160445 0.837482 0.6462517 81.7431 227.1895 0.8889572
## Training set 0.0009836837
```

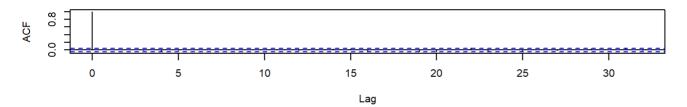
### Diagnose the model

tsdiag(pm2.5.ts.autoarima,gof.lag=20)

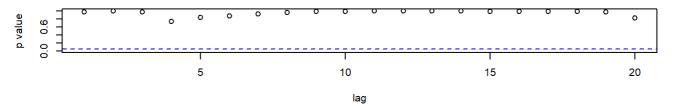
#### Standardized Residuals



#### **ACF of Residuals**

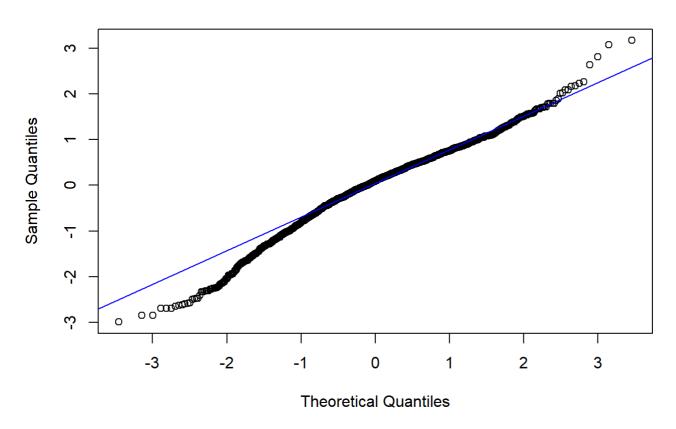


#### p values for Ljung-Box statistic



```
qqnorm(pm2.5.ts.autoarima$residuals)
qqline(pm2.5.ts.autoarima$residuals,col="blue")
```

#### **Normal Q-Q Plot**

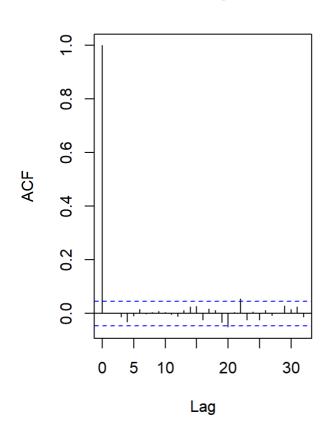


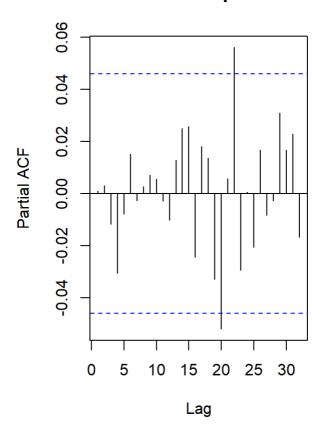
shapiro.test(pm2.5.ts.autoarima\$residuals)

```
##
## Shapiro-Wilk normality test
##
## data: pm2.5.ts.autoarima$residuals
## W = 0.98002, p-value = 2.755e-15
```

```
par(mfrow=c(1,2))
acf(pm2.5.ts.autoarima$residuals, main="ACF of Residuals from pm2.5.ts.autoarima")
pacf(pm2.5.ts.autoarima$residuals, main="PACF of Residuals from pm2.5.ts.autoarima")
```

#### ACF of Residuals from pm2.5.ts.autoaACF of Residuals from pm2.5.ts.autoa





```
par(mfrow=c(1,1))
Box.test(pm2.5.ts.autoarima$residuals,type="Ljung-Box")

##
## Box-Ljung test
##
## data: pm2.5.ts.autoarima$residuals
```

Shapiro Wilk normality test and box Ljung test shows residual of the arima is normally distributed. In the ACF and PACF plot, nearly almost lags are within confidence interval implying that there isn't any autocorrelation.

Using just arima model

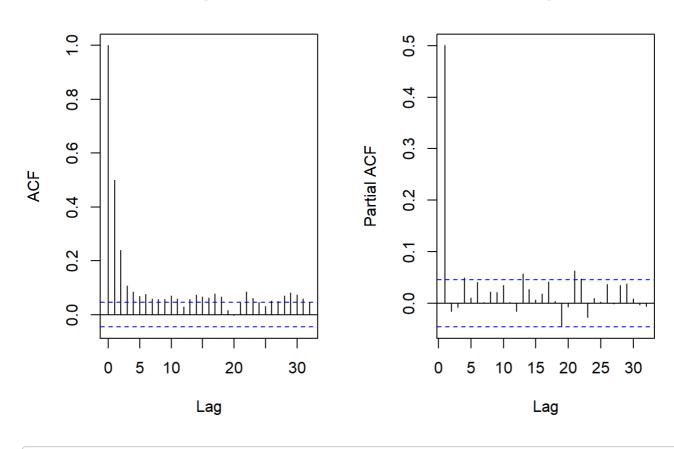
## X-squared = 0.0017698, df = 1, p-value = 0.9664

ACF and PACF of the pm2.5 time series

```
par(mfrow = c(1,2))
acf(pm2.5.ts[pm2.5.ts.days], main = "ACF of pm2.5.ts")
pacf(pm2.5.ts[pm2.5.ts.days], main = "PACF of pm2.5.ts")
```

#### ACF of pm2.5.ts

#### PACF of pm2.5.ts



```
par(mfrow = c(1,1))
```

## From the ACf and PACF plot of the pm2.5 time series, we can get that p=1 and q=4

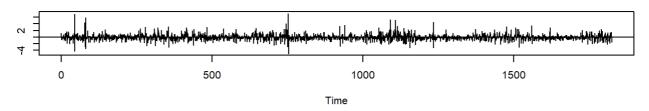
```
arima1 <- arima(pm2.5.ts, order = c(1, 0, 4))
summary(arima1)</pre>
```

```
##
## Call:
## arima(x = pm2.5.ts, order = c(1, 0, 4))
## Coefficients:
##
                     ma1
                               ma2
                                        ma3
                                                      intercept
                                   -0.1600
##
         0.9779
                 -0.4774
                          -0.2572
                                             -0.0263
                                                       187.6623
## s.e.
         0.0113
                  0.0260
                            0.0264
                                     0.0252
                                              0.0234
                                                         9.0426
##
## sigma^2 estimated as 11945: log likelihood = -11162.46, aic = 22338.93
##
## Training set error measures:
##
                                 RMSE
                                           MAE
                                                     MPE
                                                             MAPE
                                                                     MASE
## Training set -0.04794343 109.2914 79.53181 -60.65098 84.9157 0.91944
## Training set 0.0004084028
```

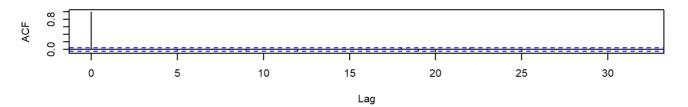
### ACF and PACF of arima1

tsdiag(arima1,gof.lag=20)

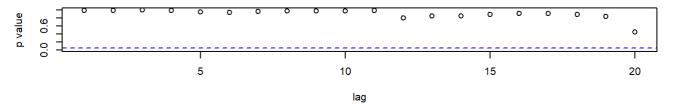
#### Standardized Residuals



#### **ACF of Residuals**

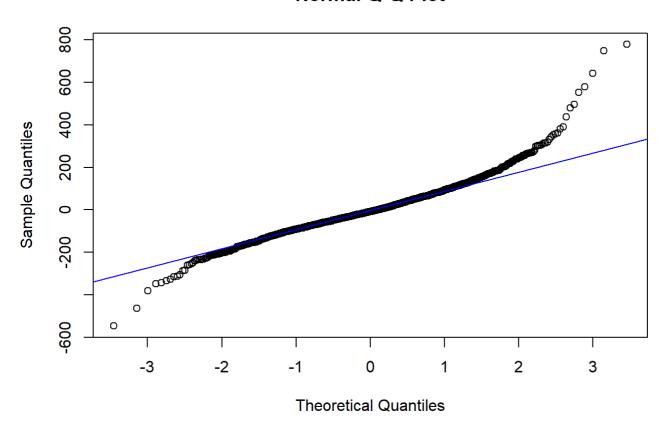


#### p values for Ljung-Box statistic



```
qqnorm(arima1$residuals)
qqline(arima1$residuals,col="blue")
```

#### **Normal Q-Q Plot**



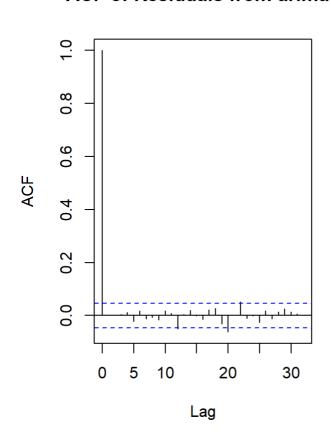
#### shapiro.test(arima1\$residuals)

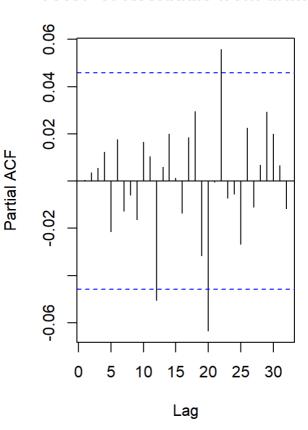
```
##
## Shapiro-Wilk normality test
##
## data: arima1$residuals
## W = 0.9497, p-value < 2.2e-16</pre>
```

```
par(mfrow=c(1,2))
acf(arima1$residuals, main="ACF of Residuals from arima1")
pacf(arima1$residuals,main="PACF of Residuals from arima1")
```

#### ACF of Residuals from arima1

#### PACF of Residuals from arima1





```
par(mfrow=c(1,1))
Box.test(arima1$residuals,type="Ljung-Box")
```

```
##
## Box-Ljung test
##
## data: arima1$residuals
## X-squared = 0.00030506, df = 1, p-value = 0.9861
```

### Use auto.arima() to model

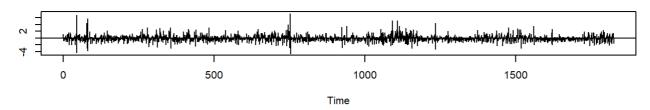
```
autoarima1 <- auto.arima(pm2.5.ts)
summary(autoarima1)</pre>
```

```
## Series: pm2.5.ts
## ARIMA(1,0,0) with non-zero mean
##
## Coefficients:
##
                     mean
##
         0.5009
                 187.4646
         0.0203
                   5.1461
## s.e.
##
## sigma^2 estimated as 12074:
                                log likelihood=-11171.22
## AIC=22348.44
                                   BIC=22364.97
                  AICc=22348.46
## Training set error measures:
##
                         ME
                                 RMSE
                                           MAE
                                                     MPE
                                                            MAPE
                                                                       MASE
## Training set -0.05051918 109.8206 79.91543 -60.72288 84.9966 0.9238749
##
## Training set 0.007676786
```

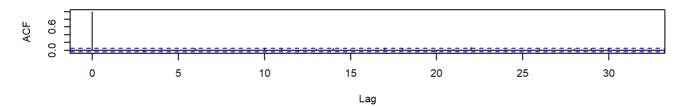
### Build ARIMA(1,0,0)

tsdiag(autoarima1,gof.lag=20)

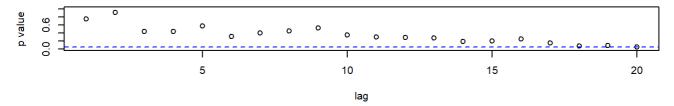
#### Standardized Residuals



#### **ACF of Residuals**

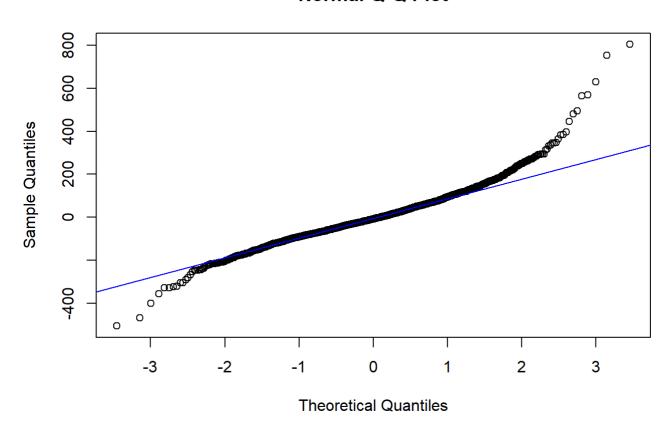


#### p values for Ljung-Box statistic



```
qqnorm(autoarima1$residuals)
qqline(autoarima1$residuals,col="blue")
```

#### **Normal Q-Q Plot**

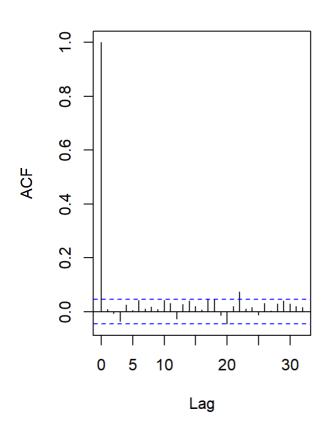


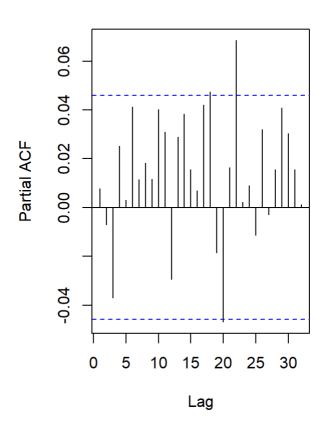
#### shapiro.test(autoarima1\$residuals)

```
##
## Shapiro-Wilk normality test
##
## data: autoarima1$residuals
## W = 0.94893, p-value < 2.2e-16</pre>
```

```
par(mfrow=c(1,2))
acf(autoarima1$residuals, main="ACF of Residuals from autoarima1")
pacf(autoarima1$residuals,main="PACF of Residuals from autoarima1")
```

#### ACF of Residuals from autoarima PACF of Residuals from autoarima





```
par(mfrow=c(1,1))
Box.test(autoarima1$residuals,type="Ljung-Box")
```

```
##
## Box-Ljung test
##
## data: autoarima1$residuals
## X-squared = 0.10779, df = 1, p-value = 0.7427
```

### Comparision of the two just arima models

```
AIC(arima1)

## [1] 22338.93

AIC(autoarima1)

## [1] 22348.44
```

## Since we choose the model with less AIC, so we choose the model arima1

## Compare arima1 with pm2.5.ts.autoarima on forecasting the next 30 days

## Prediction for the next 30 days by pm2.5.ts.trend .seasonal1 and its MSE

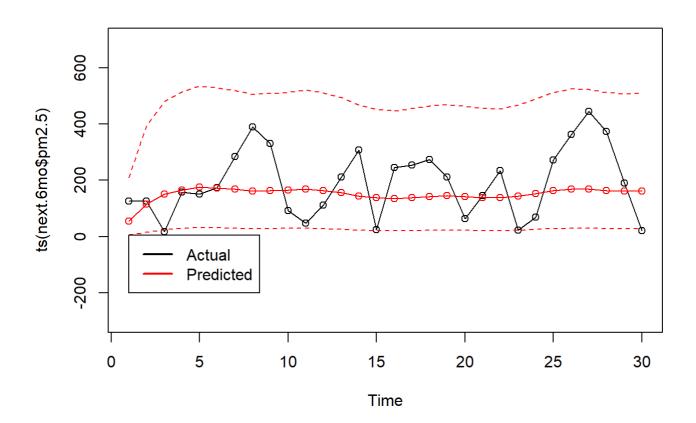
```
next.6mo.time <- c((length(pm2.5.ts)-29):(length(pm2.5.ts)))
next.6mo <- data.frame(pm2.5.ts.days = next.6mo.time, pm2.5 = pm2.5.ts[next.6mo.time])
next.6mo.ts <- ts(next.6mo$pm2.5)
E_Y.pred <- predict(pm2.5.ts.trend.seasonal1, newdata = next.6mo)
e_t.pred <- forecast(pm2.5.ts.autoarima, h=30)
next.6mo.prediction <- (E_Y.pred + e_t.pred$mean)^(1/L)
mean((next.6mo.prediction-next.6mo$pm2.5)^2)</pre>
```

```
## [1] 15189.54
```

## Plot actual values and predicted values and confidence intervals

```
plot(ts(next.6mo$pm2.5),type='o',ylim=c(-300,700))
lines(ts(next.6mo.prediction),col='red',type='o')
lines(1:30, (E_Y.pred + e_t.pred$lower[,2])^(1/L), col = "red", lty = "dashed")
lines(1:30, (E_Y.pred + e_t.pred$upper[,2])^(1/L), col = "red", lty = "dashed")
legend(1,5, legend = c("Actual", "Predicted"), lwd = 2, col = c("black", "red"))
```

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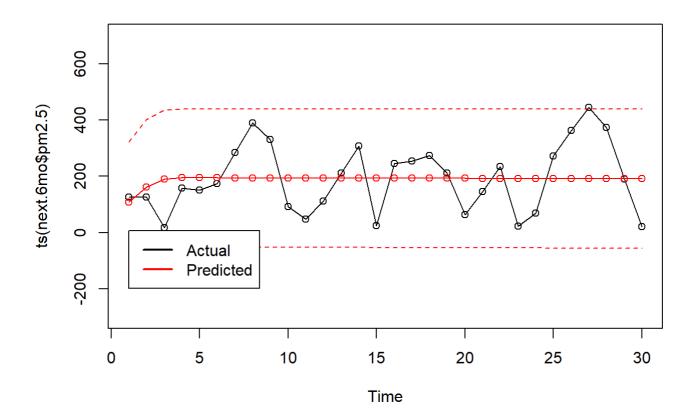
## Prediction for the next 30 days by arima1 and its MSE

```
e_t.pred2 <- forecast(arima1, h=30)
next.6mo.prediction2 <- e_t.pred2$mean
mean((next.6mo.prediction2-next.6mo$pm2.5))

## [1] -2.027031</pre>
```

## Plot actual values and predicted values and confidence intervals

```
plot(ts(next.6mo$pm2.5), type='o', ylim=c(-300,700))
lines(ts(next.6mo.prediction2),col='red',type='o')
lines(1:30,e_t.pred2$lower[,2],col="red",lty="dashed")
lines(1:30,e_t.pred2$upper[,2],col="red",lty="dashed")
legend(1,7,legend=c("Actual","Predicted"),lwd=2,col=c("black","red") )
```

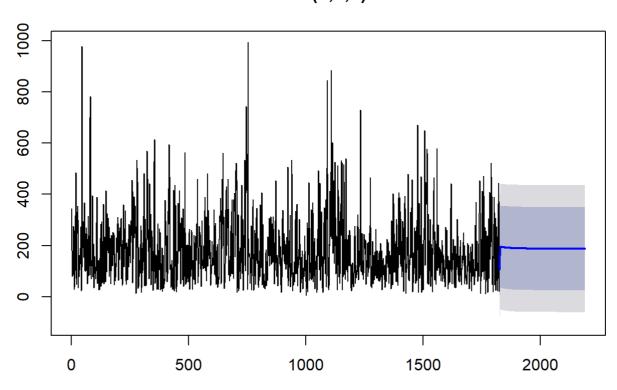


## From the predicting plots and MSE, we can get that arima1 is more optimal

The forecasting plot of pm2.5 for the next one year

```
arima1.forecast <- forecast(arima1, h=365)
plot(arima1.forecast)</pre>
```

#### Forecasts from ARIMA(1,0,4) with non-zero mean



## Using the powerful Facebook's Library Prophet for forecasting.¶

Prophet follows the sklearn model API. We create an instance of the Prophet class and then call its fit and predict methods.

```
pm2.5.temp <- pm2.5[,c("date","pm2.5")]
colnames(pm2.5.temp)<- c("ds","y")
summary(pm2.5.temp)</pre>
```

```
##
          ds
   Min.
           :2010-01-01
                          Min.
                                    0.00
##
   1st Qu.:2011-04-02
                          1st Qu.: 29.00
##
   Median :2012-07-01
                          Median : 72.00
##
   Mean
           :2012-07-01
                                  : 98.71
    3rd Qu.:2013-10-01
                          3rd Qu.:137.00
##
           :2014-12-31
   Max.
                          Max.
                                  :994.00
```

```
pm2.5.prophet <- prophet(pm2.5.temp,daily.seasonality = TRUE)
summary(pm2.5.prophet)</pre>
```

<b>#</b> #	Length	Class	Mode
## growth	1	-none-	character
## changepoints	25	POSIXct	numeric
## n.changepoints	1	-none-	numeric
## changepoint.range	1	-none-	numeric
## yearly.seasonality	1	-none-	character
## weekly.seasonality	1	-none-	character
## daily.seasonality	1	-none-	logical
## holidays	0	-none-	NULL
## seasonality.mode	1	-none-	character
## seasonality.prior.scale	1	-none-	numeric
## changepoint.prior.scale	1	-none-	numeric
## holidays.prior.scale	1	-none-	numeric
## mcmc.samples	1	-none-	numeric
## interval.width	1	-none-	numeric
## uncertainty.samples	1	-none-	numeric
## specified.changepoints	1	-none-	logical
## start	1	POSIXct	numeric
## y.scale	1	-none-	numeric
## logistic.floor	1	-none-	logical
## t.scale	1	-none-	numeric
## changepoints.t	25	-none-	numeric
## seasonalities	3	-none-	list
## extra_regressors	0	-none-	list
## stan.fit	0	-none-	NULL
## params	5	-none-	list
## history	5	data.frame	list
## history.dates	43824	POSIXct	numeric
## train.component.cols	5	data.frame	list
## component.modes	2	-none-	list

### Plot the forecast

## Broken down the forcast into trend, weekly seasonality, and yearly seasonality

```
#pm2.5.prophet.future <- make_future_dataframe(pm2.5.prophet, periods = 12)
#tail(pm2.5.prophet.future)
#pm2.5.prophet.forcast <- predict(pm2.5.prophet,pm2.5.prophet.future)
#tail(pm2.5.prophet.forcast[c('ds', 'yhat', 'yhat_lower', 'yhat_upper')])
#plot(pm2.5.prophet.forcast)
#prophet_plot_components(pm2.5.prophet.forcast)</pre>
```

### I haven't compelte this part yet