



Zeppelin

graph7



default ▾

```
%r
library(readr)
library(dplyr)
setwd("/Users/neha/Documents/Capstone/pollution")
temp = list.files(pattern="*.csv")
tbl = lapply(temp, read_csv) %>% bind_rows()
```

FINISHED ▶ ⌵ ⌵ ⌵ ⌵

Took 18 sec. Last updated by anonymous at April 16 2017, 7:37:47 PM.

```
%r
library(sqldf)
x = sqldf("select avg(ozone) as avg_ozone, avg(particullate_matter) as particulate, avg(carbon
(nitrogen_dioxide) as nitrogen from tbl group by longitude,latitude")
```

FINISHED ▶ ⌵ ⌵ ⌵ ⌵

Took 26 sec. Last updated by anonymous at April 16 2017, 7:38:25 PM.

```
%r

result3<-kmeans(x,3)
result3$centers
```

FINISHED ▶ ⌵ ⌵ ⌵ ⌵

```
avg_ozone particulate monoxide    sulfur nitrogen
1  105.9481    112.2404 103.4790 116.5330 117.0677
2  108.5616    109.3462 122.1382 114.3974 109.9401
3  123.2459    113.8178 110.6574 104.6408 107.3411
```

Took 0 sec. Last updated by anonymous at April 16 2017, 7:56:28 PM.

```
%r
result10<-kmeans(x,10)
result10$centers
```

FINISHED ▶ ⌵ ⌵ ⌵ ⌵

```
avg_ozone particulate monoxide    sulfur  nitrogen
1   91.52245   123.67904 121.5981 106.71682  97.93761
2  129.66757   121.20415 111.7663 108.82019 106.19614
3   99.50636   98.87291 116.0527 107.33638 106.76163
4  117.02430   99.72097 103.7949 124.17270 107.42184
5   98.66266  119.18758 106.5831 119.96829 123.12924
6  125.75001  107.04961 129.4175 115.28823 120.95571
7  113.50857  110.20964 107.4136  99.55774  97.68055
8  113.59217  110.25397 102.0130 111.30572 119.17068
9  112.07657  115.40226 119.2048 105.88419 115.80225
```

10 110.39806 110.24820 119.8376 121.62451 110.56594

Zeppelin

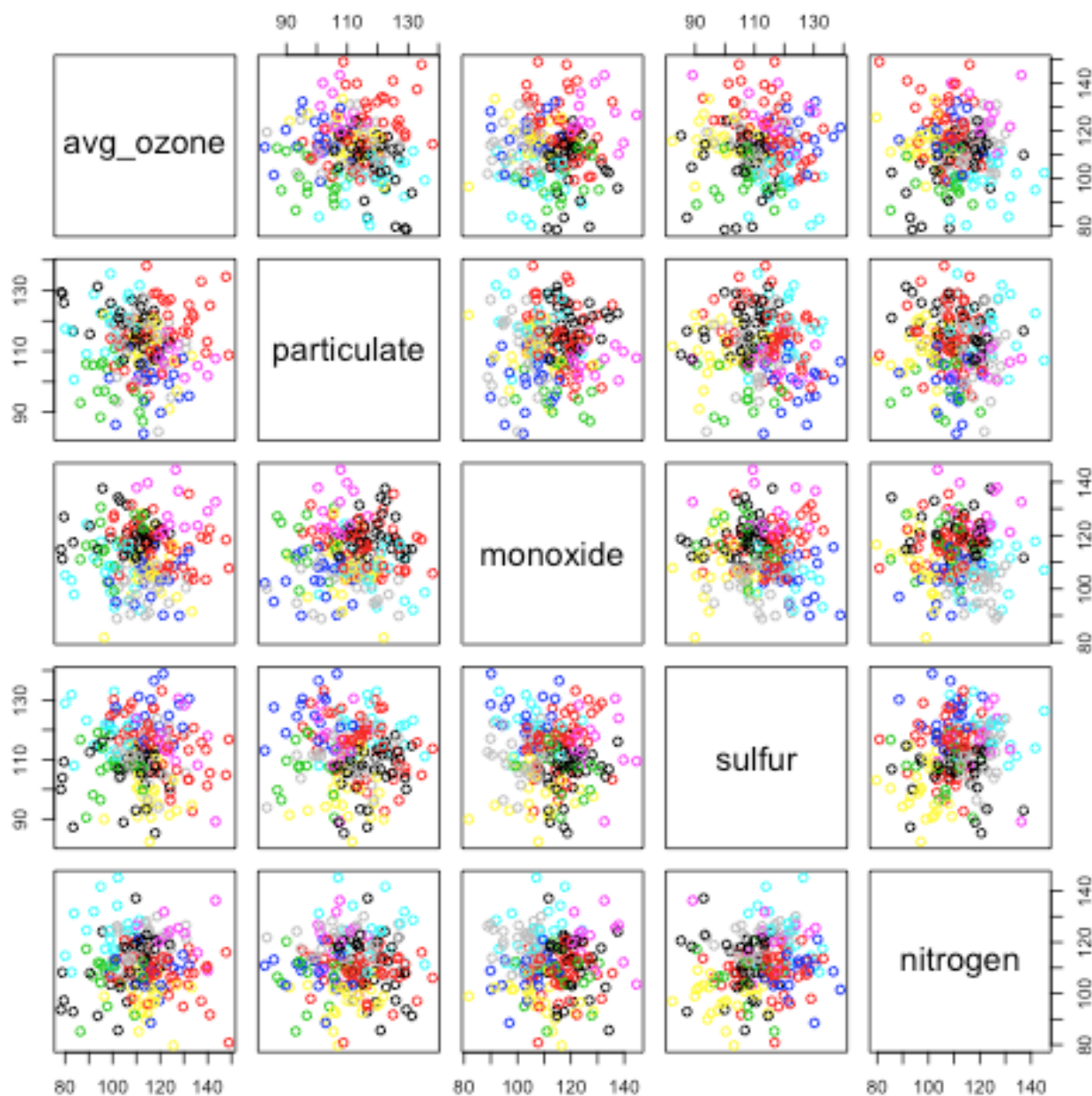
1 sec. Last updated by anonymous at April 16 2017, 7:57:00 PM.

graph7



FINISHED default

```
plot(x[c("avg_ozone", "particulate", "monoxide", "sulfur", "nitrogen")], col = result10$cluster )
```



Took 0 sec. Last updated by anonymous at April 16 2017, 7:57:48 PM.

READY



Zeppelin

graph7





default ▾