

### **Plot3.R**

```
# Loads RDS
```

```
library(ggplot2)
```

```
NEI <- readRDS("summarySCC_PM25.rds")
```

```
SCC <- readRDS("Source_Classification_Code.rds")
```

```
# Samples data for testing
```

```
NEIsample <- NEI[sample(nrow(NEI), size = 5000, replace = F), ]
```

```
# Baltimore City, Maryland == fips
```

```
MD <- subset(NEI, fips == 24510)
```

```
MD$year <- factor(MD$year, levels = c('1999', '2002', '2005', '2008'))
```

```
png('plot13.png', width = 1000, height = 600, units = 'px')
```

```
ggplot(data = MD, aes(x = year, y = log(Emissions))) + facet_grid(. ~ type) + guides(fill = F) +  
geom_boxplot(aes(fill = type)) + stat_boxplot(geom = 'errorbar') + ylab
```

```
(expression(paste('Log', ' of PM'[2.5], ' Emissions')))) + xlab('Year') + ggtitle('Emissions per Type in  
Baltimore City, Maryland') + geom_jitter(alpha = 0.10)
```

```
dev.off()
```