PLOT4.R

```
library(ggplot2)
NEI <- readRDS("summarySCC_PM25.rds")</pre>
SCC <- readRDS("Source_Classification_Code.rds")</pre>
# Coal-related SCC
SCC.coal = SCC[grepl("coal", SCC$Short.Name, ignore.case = TRUE), ]
# Merges two data sets
merge <- merge(x = NEI, y = SCC.coal, by = 'SCC')
merge.sum <- aggregate(merge[, 'Emissions'], by = list(merge$year), sum)
colnames(merge.sum) <- c('Year', 'Emissions')</pre>
png(filename = 'plot14.png')
ggplot(data = merge.sum, aes(x = Year, y = Emissions / 1000)) + geom_line(aes(group = 1, col =
Emissions)) + geom_point(aes(size = 2, col = Emissions)) + ggtitle(expression('Total Emissions of
PM'[2.5])) + ylab(expression(paste('PM', ''[2.5], ' in kilotons'))) + geom_text(aes(label =
round(Emissions / 1000, digits = 2), size = 2, hjust = 1.5, vjust = 1.5)) + theme(legend.position =
'none') + scale_colour_gradient(low = 'black', high = 'red')
dev.off()
```