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## Ouestion 5
# How have emissions from motor vehicle sources changed from 1999-2008
in Baltimore City?
# read in input files
# no need to read if already done in previous plots
NEI <- readRDS("summarySCC PM25.rds")</pre>
SCC <- readRDS("Source_Classification_Code.rds")</pre>
# read in Total Emissions by year for motor vehicle sources
librarv(sqldf)
MV <- sqldf('select Sum(Emissions) "Sum", year from SCC,NEI where
upper(Short_Name) like "%VEHICLE%" and SCC.SCC = NEI.SCC and fips =
"24510" group by year')
# Set the margin size
par(mar=c(4,4,2,4))
# open the PNG device
png(filename="plot5.png", width=480, height=480)
# set the year interval by 3
at <- seq(from=1999,to=max(MV$year),by=3)
# set v axis range
yrange <- c(min(MV$Sum),max(MV$Sum))</pre>
ticks <- pretty(yrange)</pre>
labels <- format(ticks,scientific=F)</pre>
# plot the graph without axis values
with(MV,plot(year,Sum,type="l",xaxt="n",yaxt="n",ylim=yrange,ylab="",x
lab=""))
# set the x axis (year) at the interval of 3
axis(side=1,at=at,las=1,cex.axis = 0.8)
mtext("Year",1)
# set the y axis (PM25) with above label
axis(2,at=ticks,labels=labels,las=1,cex.axis=0.6)
mtext(expression("PM"[25]),2,cex=0.8)
# add title with Ouesion 1
title("How have emissions from motor vehicle sources changed from
1999—2008 in Baltimore City?",cex.main=0.6)
# close the PNG device
dev.off()
```