

R Notebook

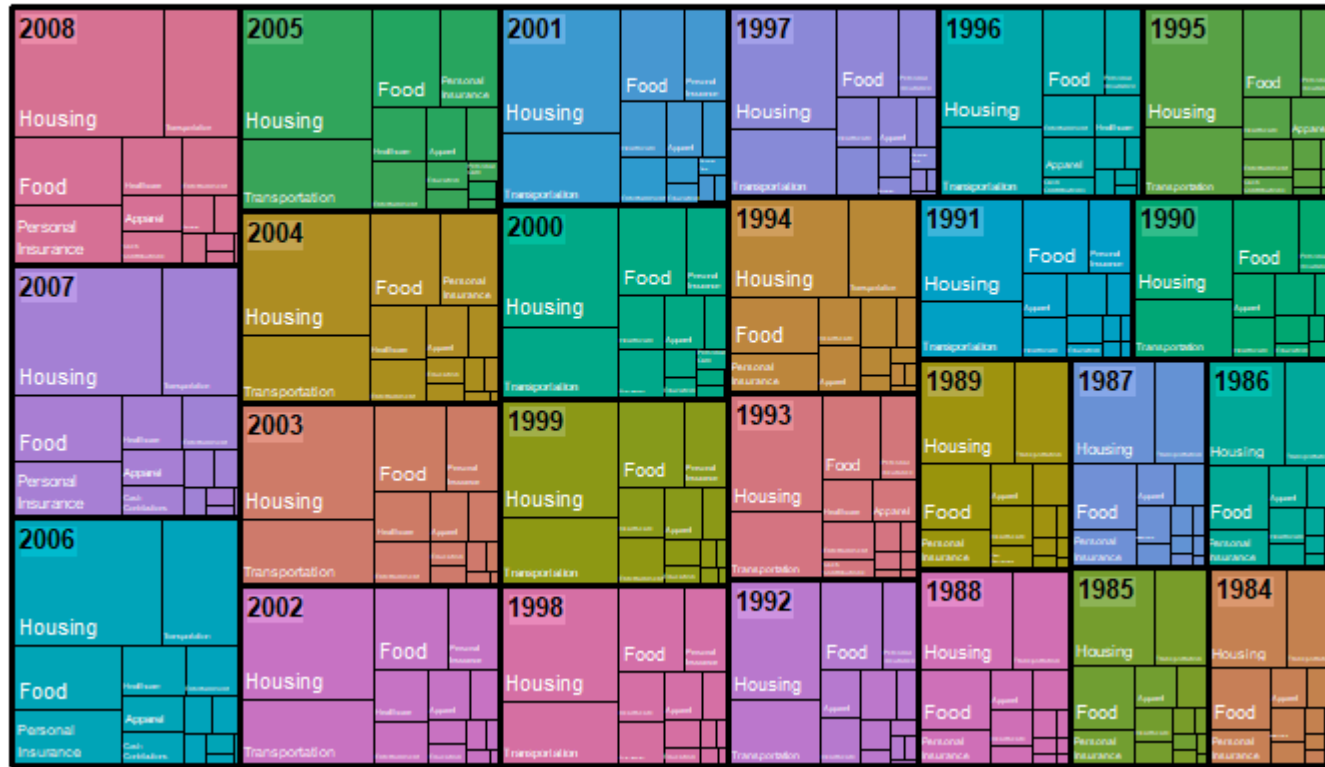
[Code ▾](#)[Hide](#)

```
expend <- read.table('expenditures.txt', sep = '\\t', header = TRUE)
```

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```
library(treemap)
treemap(expend,
  index = c('year', 'category'),
  vSize = 'expenditure',
  type = 'index',
  fontsize.labels = c(10,8),
  fontcolor.labels = c('black', 'white'),
  align.labels = list(c('left','top'),
                      c('left', 'bottom')),
  overlap.labels = .8,
  title = 'Expenditure by Year and Category',
  lowerbound.cex.labels = 0.15,
  ymod.labels = c(0,.03)
)
```

Expenditure by Year and Category



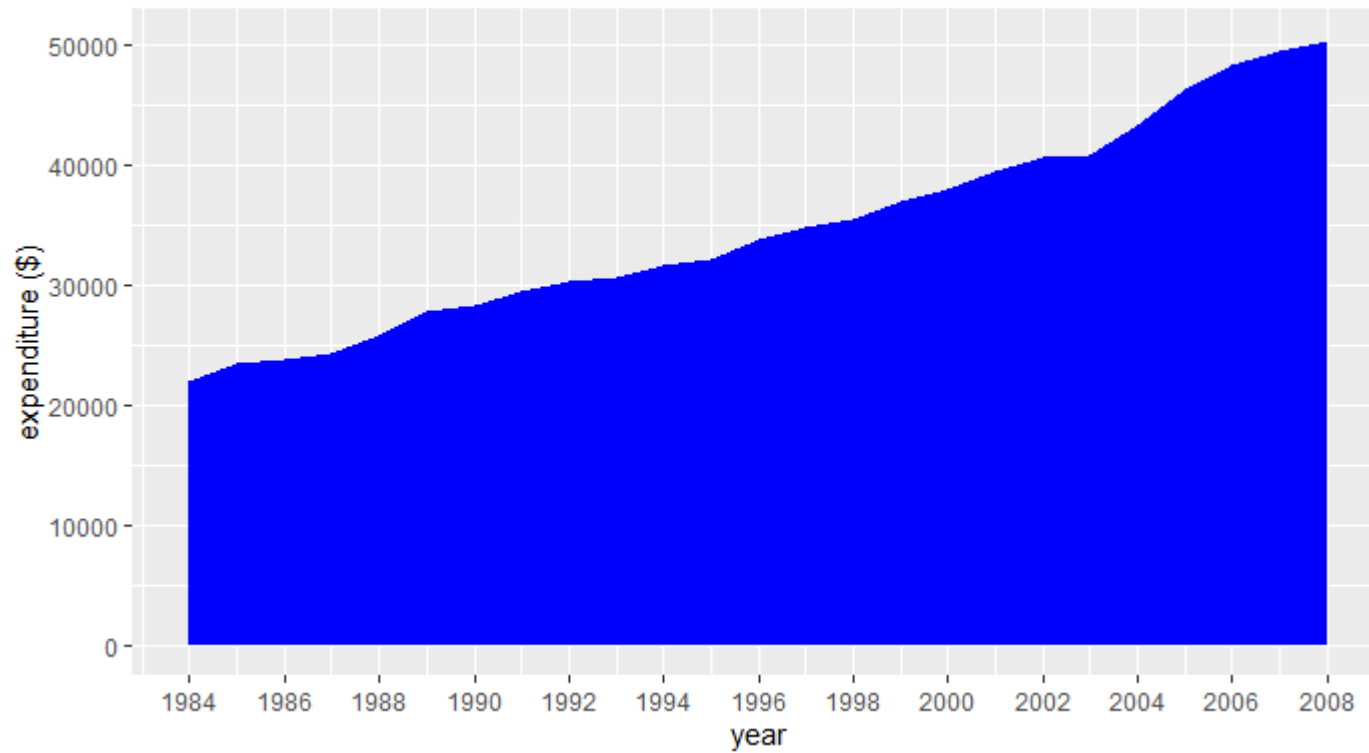
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```
library(ggplot2)
library(data.table)

expend2 <- setkey(setDT(expend), year)[,list(expenditure= sum(expenditure)), by= list(year)]
ggplot(expend2, aes(x= year))+ geom_ribbon(aes(ymin=0, ymax=expenditure), fill= 'blue') + ylab('expenditure ($)') + scale_x_
continuous(n.breaks = 14) + ggtitle('Areemap in R', subtitle = 'Expenditure by Year')
```

Areemap in R

Expenditure by Year



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```
library(RColorBrewer)
mycolors = c(brewer.pal(name="Set1", n = 8), brewer.pal(name="Dark2", n = 6))
ggplot(expend, aes(x= year, fill= category)) + geom_area(aes( y=expenditure), position = 'stack', outline.type = 'both') + y
lab('expenditure ($') + scale_x_continuous(n.breaks = 14) + ggtitle('Stacked Areemap in R', subtitle = 'Expenditure by Yea
r') + scale_fill_manual(values = (mycolors))
```

Stacked Areamap in R

Expenditure by Year

