R Plots

In [1]:
```
# Import required packages
library('magrittr')
library("ggplot2")
library("dplyr")
```

```
Registered S3 methods overwritten by 'ggplot2':
  method         from
  [.quosures     rlang
  c.quosures     rlang
  print.quosures rlang

Attaching package: ‘dplyr’

The following objects are masked from ‘package:stats’:

    filter, lag

The following objects are masked from ‘package:base’:

    intersect, setdiff, setequal, union
```

In [2]:
```
file = paste(getwd(), '/expenditures.txt', sep = '')
df1 = read.table(file, header = TRUE, sep = '\t', dec = '.', fill = TRUE)
```

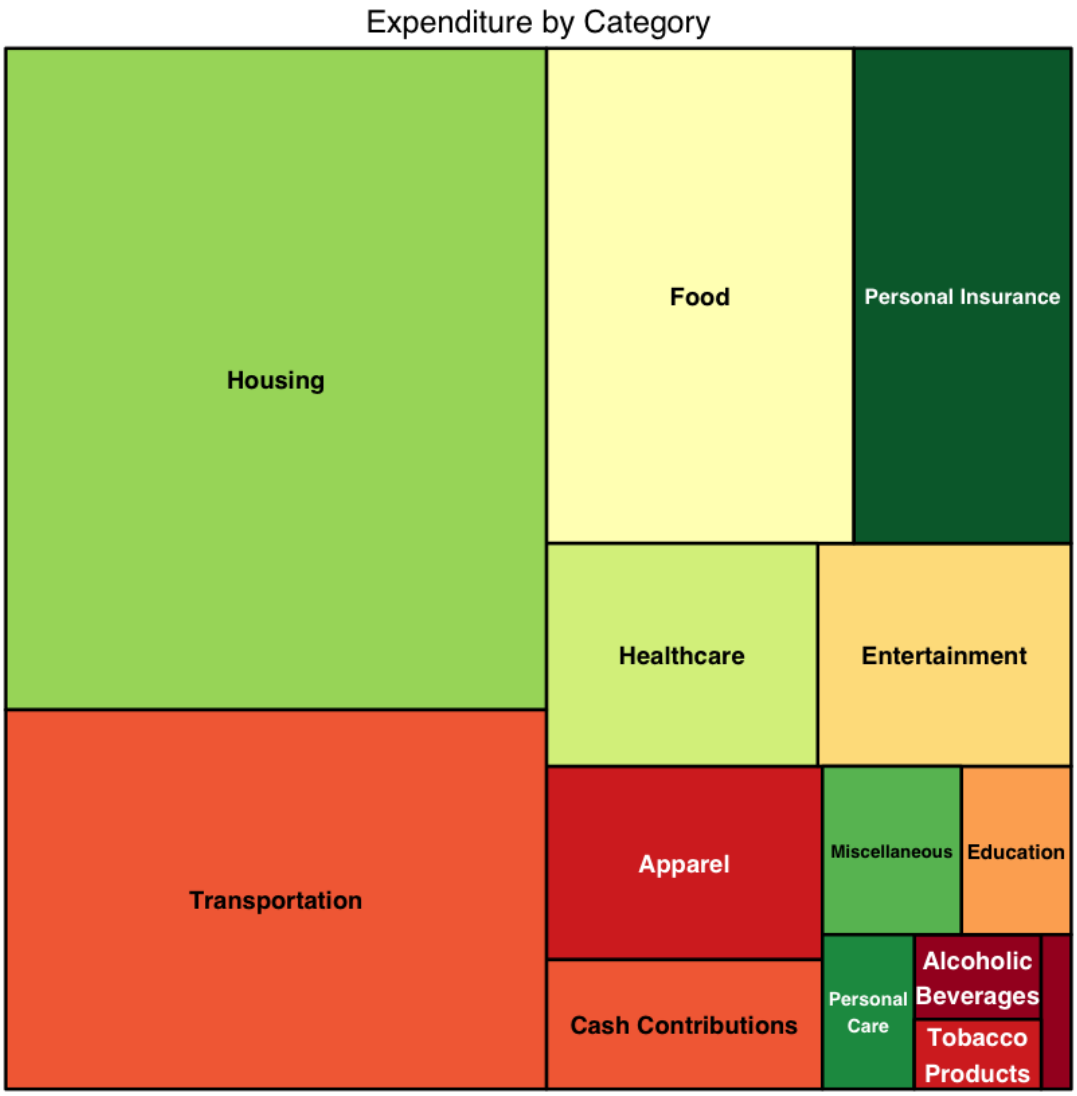
In [3]:
```
df = read.csv("unemployement-rate-1948-2010.csv", sep=',', stringsAsFactors = FALSE) %>%
    dplyr::mutate(Value = as.numeric(Value)) %>%
    as.data.frame()
```

In [4]:
```
print(head(df))
```

```
    Series.id Year Period Value
1 LNS14000000 1948    M01   3.4
2 LNS14000000 1948    M02   3.8
3 LNS14000000 1948    M03   4.0
4 LNS14000000 1948    M04   3.9
5 LNS14000000 1948    M05   3.5
6 LNS14000000 1948    M06   3.6
```

R: Tree Map

In [5]:
```
treemap::treemap(df1,index = c('category'),
                 vSize = 'expenditure',
                 title = 'Expenditure by Category',
                 palette = 'RdYlGn')
```



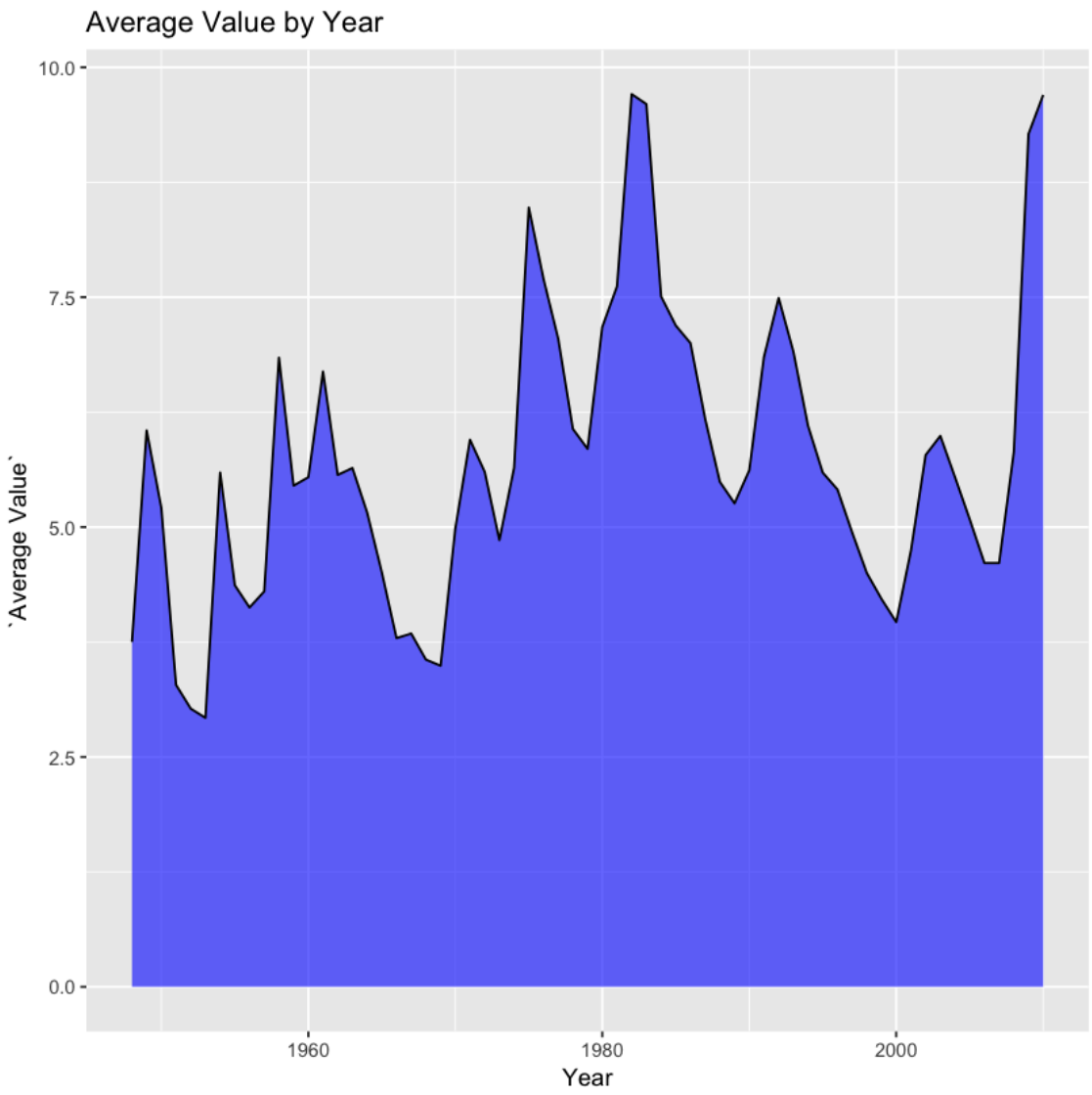
R: Area Plot

In [6]:
```
avg_unemployement = df %>%
    dplyr::group_by(Year) %>%
    dplyr::summarize('Average Value' = mean(Value))

head(avg_unemployement)
```

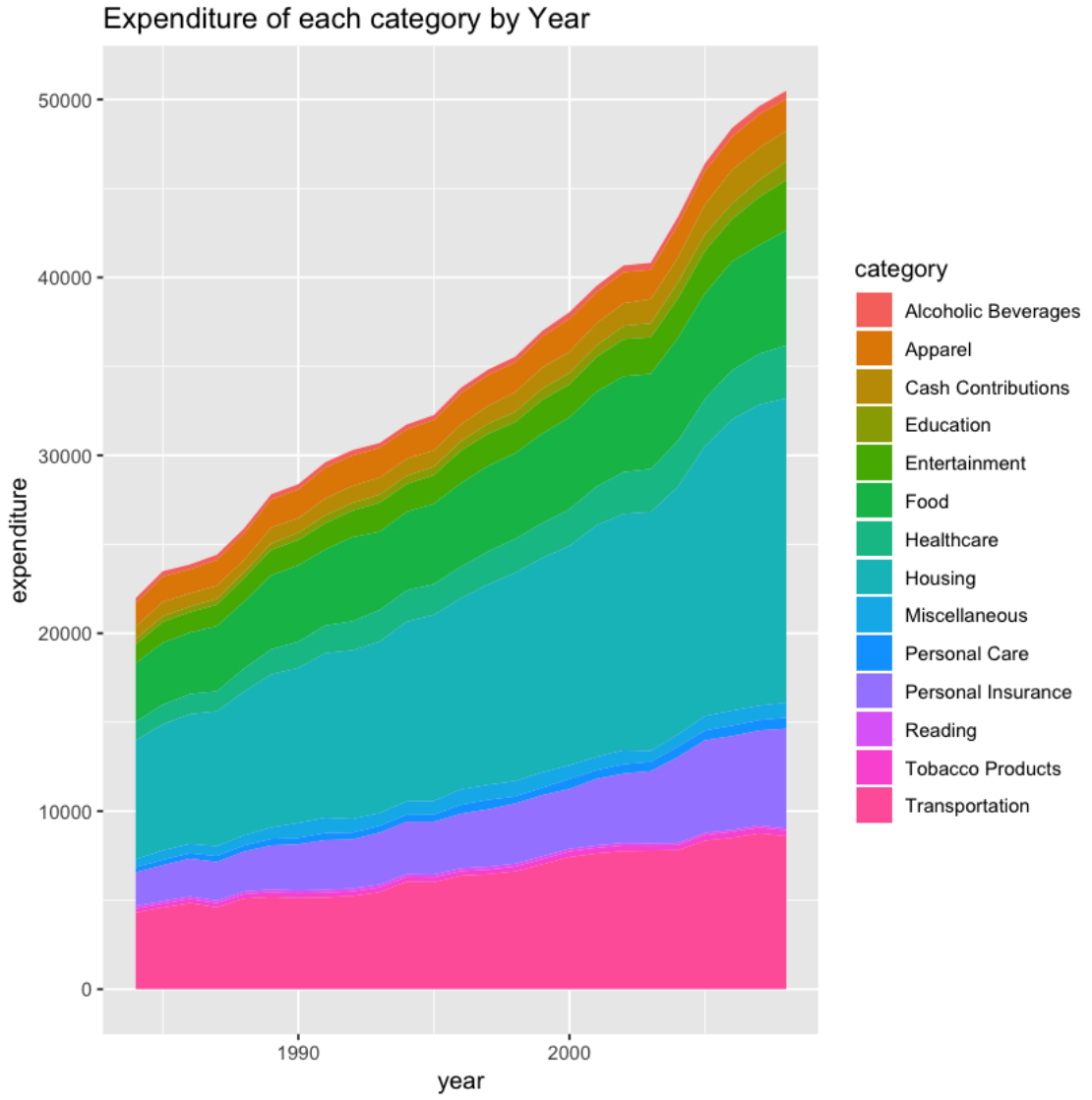
Year	Average Value
1948	3.750000
1949	6.050000
1950	5.208333
1951	3.283333
1952	3.025000
1953	2.925000

In [7]:
```
ggplot2::ggplot(avg_unemployement, ggplot2::aes(x=Year , y=`Average Value`)) +
ggplot2::geom_area( fill='blue', alpha=.6) +
ggplot2::geom_line() +
ggplot2::ggtitle('Average Value by Year')
```



R: Stacked Area Plot

In [8]:
```
ggplot2::ggplot(df1, ggplot2::aes(x=year, y=expenditure, fill=category)) + ggplot2::geom_area() + ggplot2::ggtitle('Ex
```



In [ ]: