Assignment 3.2

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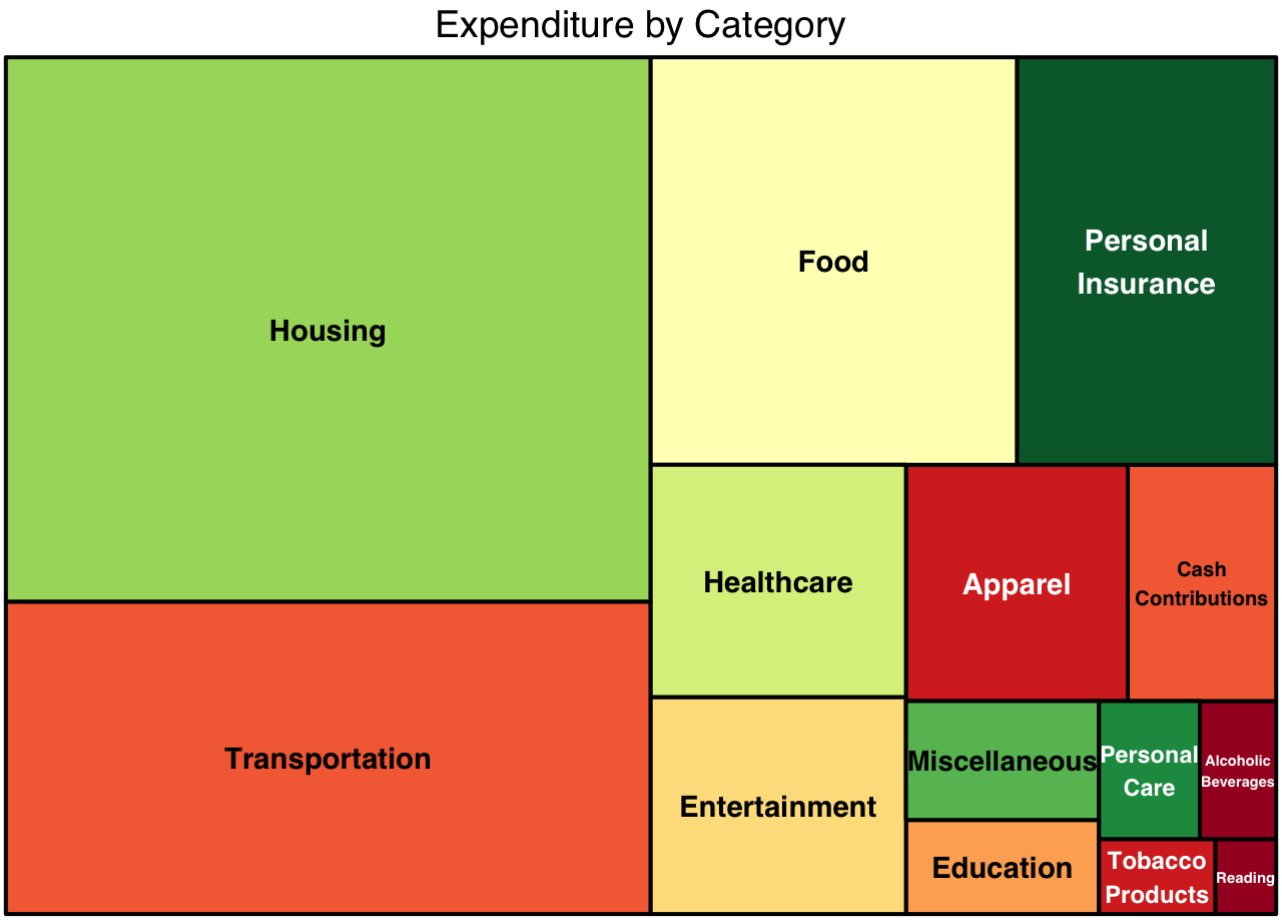
```
##   year            category expenditure sex
## 1 2008                Food        6443   1
## 2 2008 Alcoholic Beverages         444   1
## 3 2008             Housing       17109   1
## 4 2008             Apparel        1801   1
## 5 2008      Transportation        8604   1
## 6 2008          Healthcare        2976   1
```

```
##     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
```

Tree Map

Mapping how much each category has costed

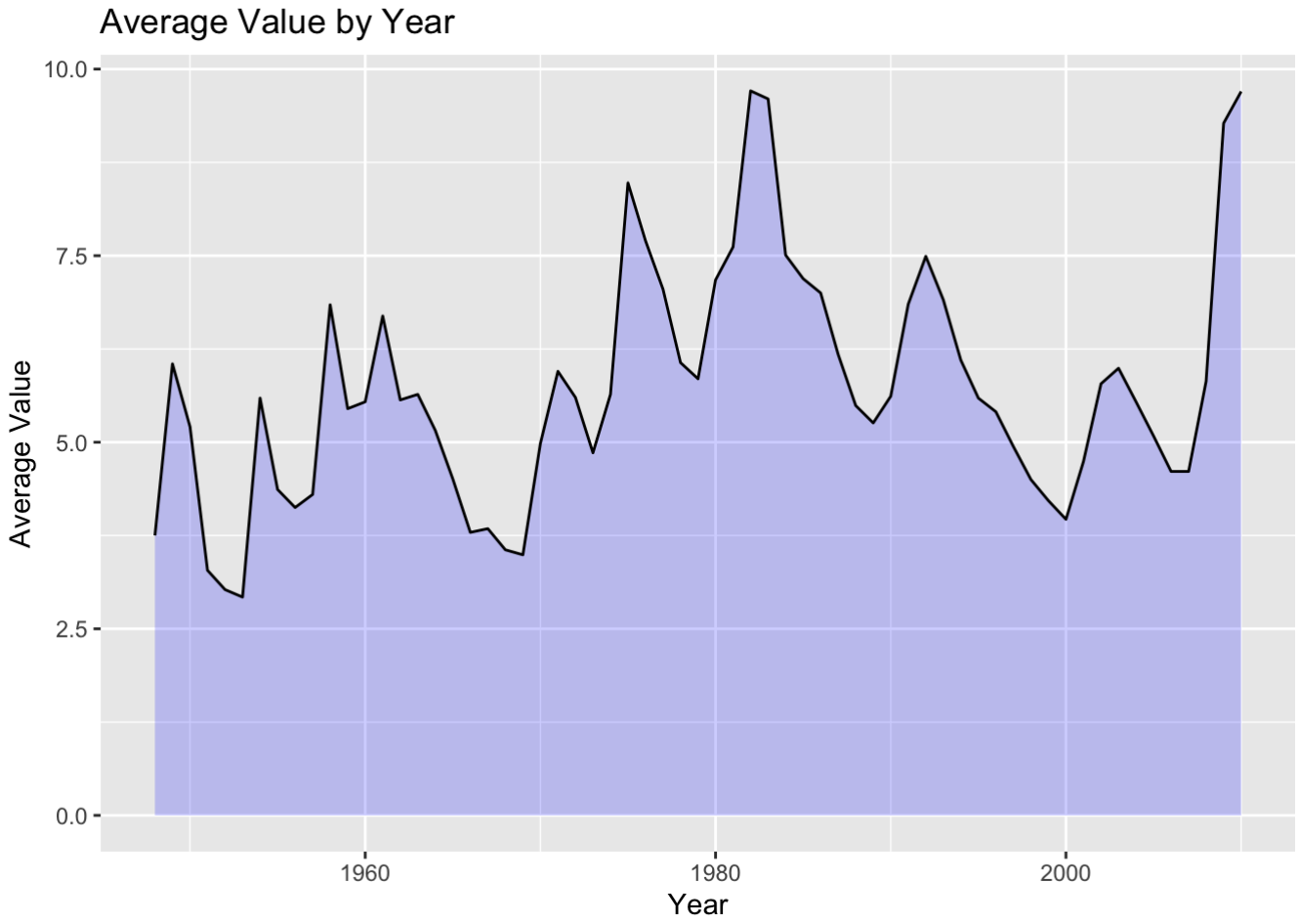


Area Chart

Mapping average value over the years, from the unemployment dataset

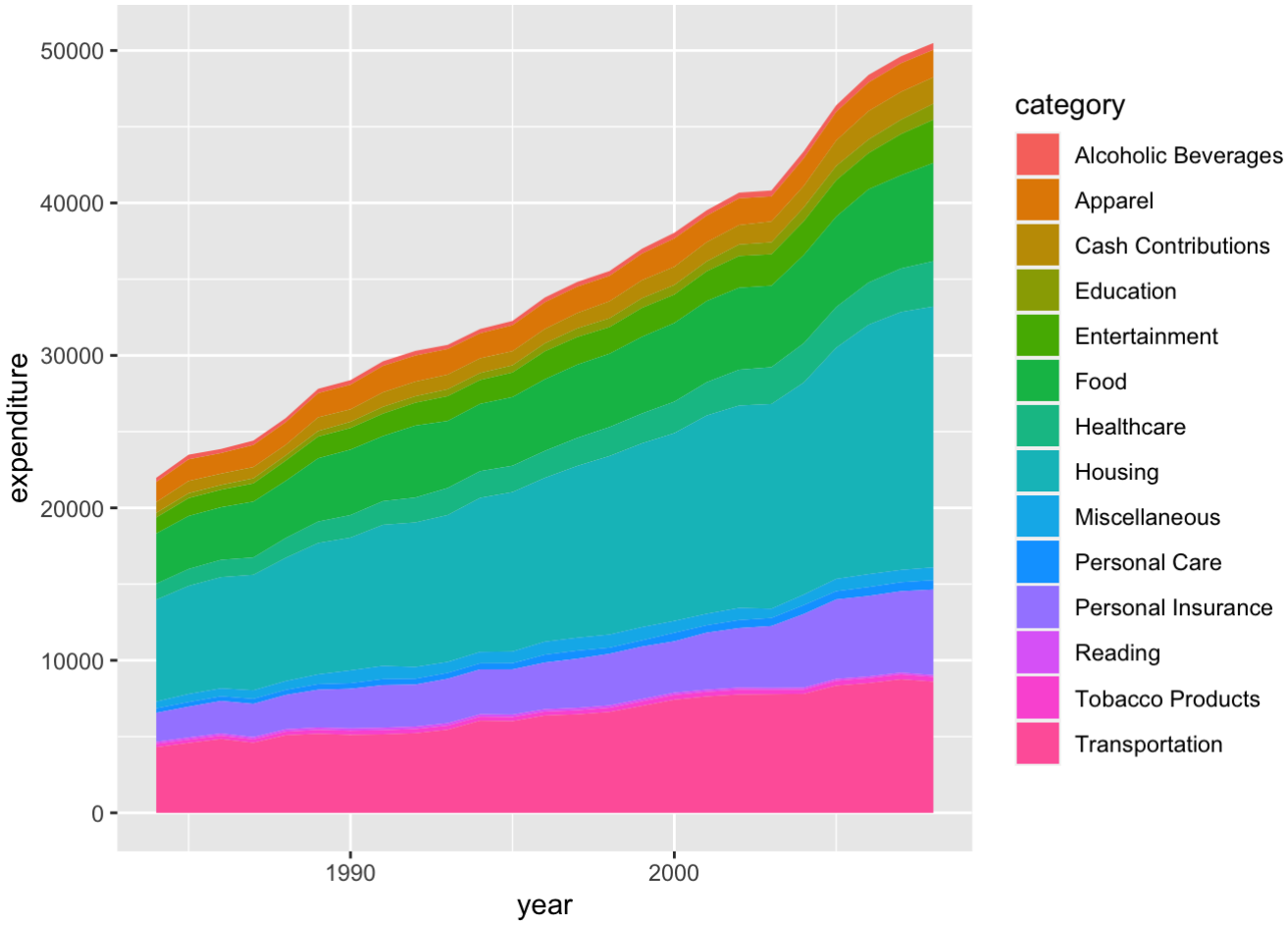
Year <int>	Average Value <dbl>
1948	3.750000
1949	6.050000
1950	5.208333
1951	3.283333
1952	3.025000
1953	2.925000

6 rows



Stacked Area Chart

Mapping the trend of the expenditure of each category over the years.


50000
40000
30000
20000
10000
0
expenditure
1990
2000
year
category
Alcoholic Beverages
Apparel
Cash Contributions
Education
Entertainment
Food
Healthcare
Housing
Miscellaneous
Personal Care
Personal Insurance
Reading
Tobacco Products
Transportation