

Week 5-6: Prepare - Tree Map, Area Chart & Stacked Area Chart

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Week 5-6: Exercises: Charts

You need to submit 3 tree maps, 3 area charts and 3 stacked area charts using Tableau or PowerBI, Python and R using the data below (or your own datasets). You can also submit using D3. You can choose which library to use in Python or R, documentation is provided to help you decide and as you start to play around in the libraries, you will decide which you prefer.

Data source We are using dataset from Data Source URL file.

Data structure:

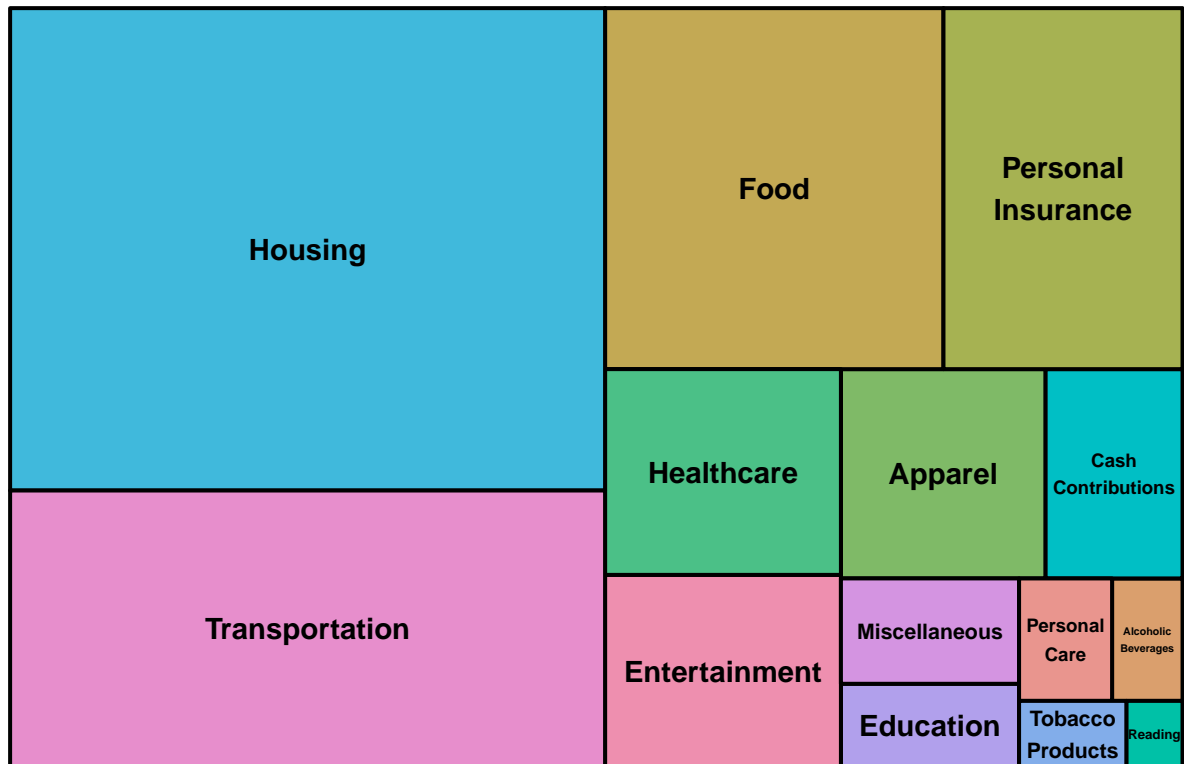
```
## 'data.frame':   350 obs. of  4 variables:
## $ year          : int  2008 2008 2008 2008 2008 2008 2008 2008 2008 2008 2008 ...
## $ category      : Factor w/ 14 levels "Alcoholic Beverages",...: 6 1 8 2 14 7 5 10 12 4 ...
## $ expenditure: int  6443 444 17109 1801 8604 2976 2835 616 116 1046 ...
## $ sex           : int   1 1 1 1 1 1 1 1 1 1 1 ...

## 'data.frame':   746 obs. of  4 variables:
## $ Series.id: Factor w/ 1 level "LNS14000000": 1 1 1 1 1 1 1 1 1 1 1 ...
## $ Year      : int  1948 1948 1948 1948 1948 1948 1948 1948 1948 1948 1948 ...
## $ Period    : Factor w/ 12 levels "M01","M02","M03",...: 1 2 3 4 5 6 7 8 9 10 ...
## $ Value     : num   3.4 3.8 4 3.9 3.5 3.6 3.6 3.9 3.8 3.7 ...
```

Construct Charts:

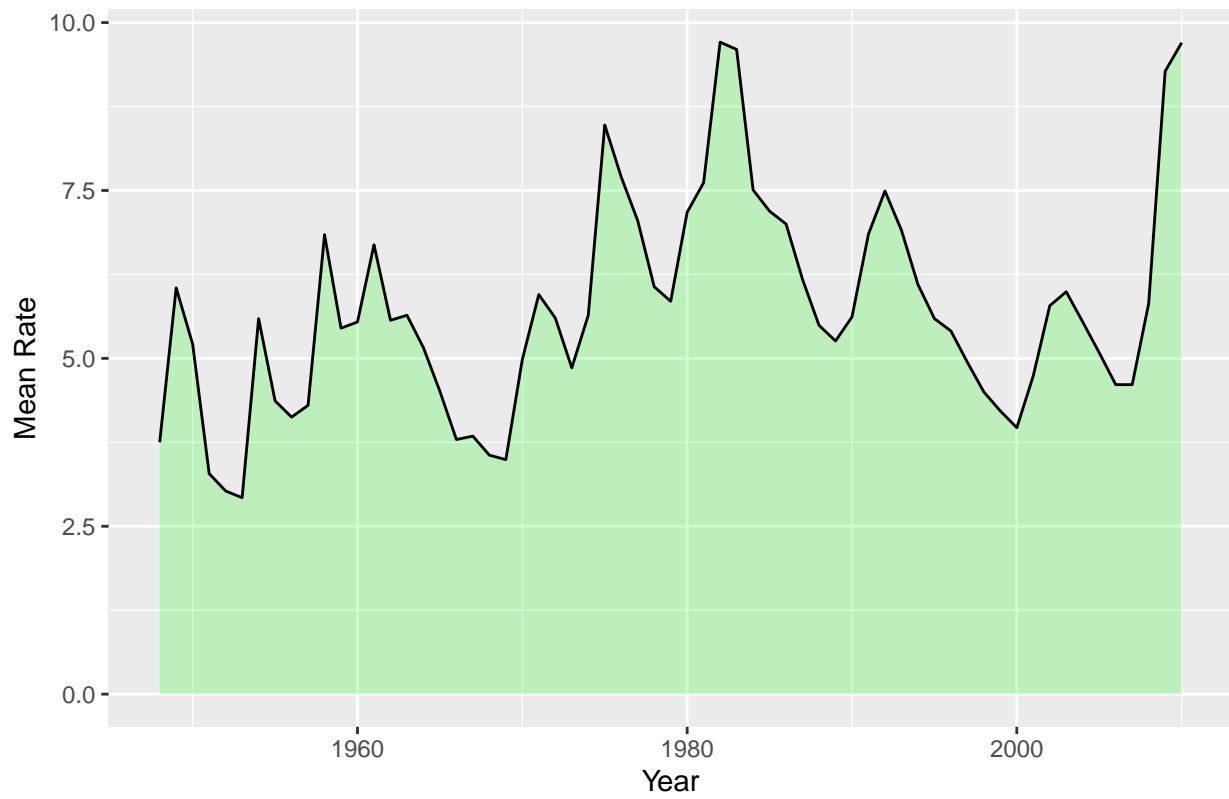
Treemap Chart

Expenditure by Category



Area Chart

Unemployment rate by Year



Stacked Area Chart

Expenditures for each category by Year

