## **Python Charts Exercise 3.2**

**DSC 640** 

Inman, Gracie

Weeks 5 + 6

01/21/24

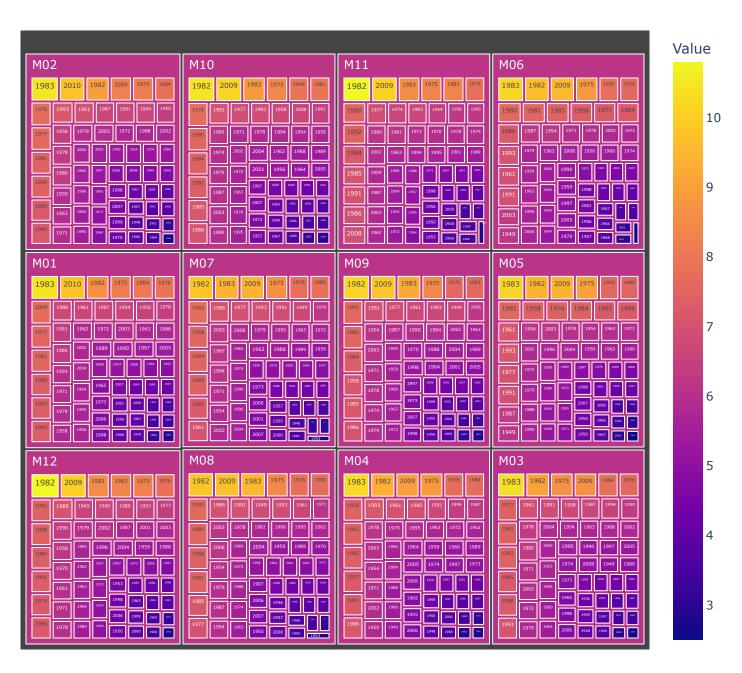
```
In [3]: # Load packages
import pandas as pd
import plotly.express as px
```

```
In [11]: # Load the dataset
data = pd.read_csv("unemployement-rate-1948-2010.csv")
data.head()
```

#### Out[11]:

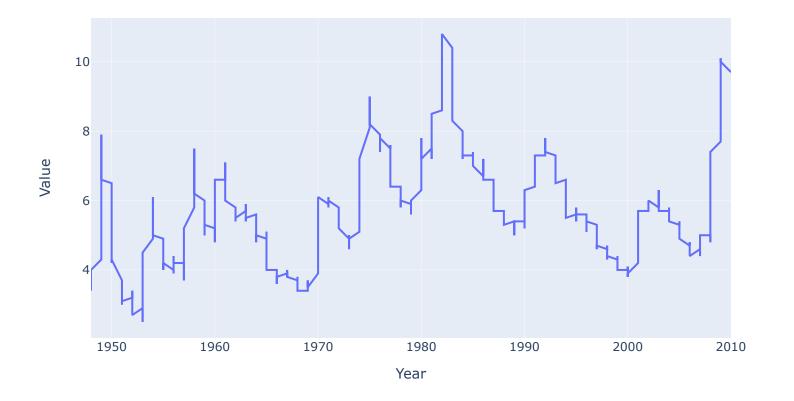
|   | Series id   | Year | Period | Value |
|---|-------------|------|--------|-------|
| 0 | LNS14000000 | 1948 | M01    | 3.4   |
| 1 | LNS14000000 | 1948 | M02    | 3.8   |
| 2 | LNS14000000 | 1948 | M03    | 4.0   |
| 3 | LNS14000000 | 1948 | M04    | 3.9   |
| 4 | LNS14000000 | 1948 | M05    | 3.5   |

# Python: Unemployment Rate Tree Map



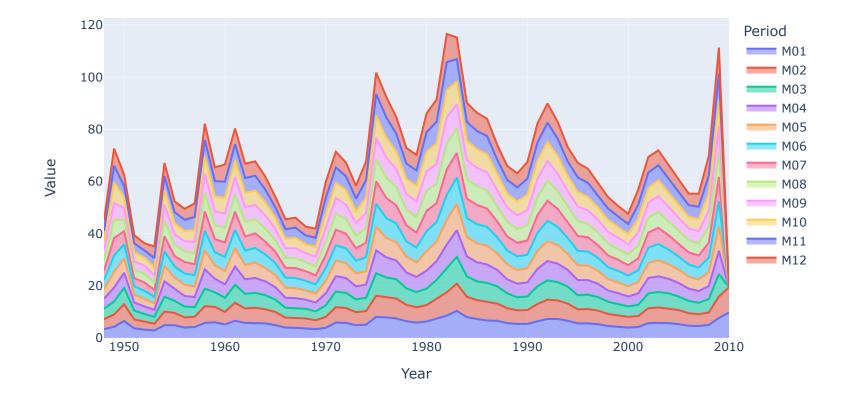
```
In [33]: # Area Chart
    area_chart= px.line(data, x='Year', y='Value', title='Python:Unemployment Rate Over Time')
    area_chart.update_layout(width=800, height=500)
    area_chart.show()
```

# Python: Unemployment Rate Over Time





### Python: Stacked Area Chart of Unemployment Rate

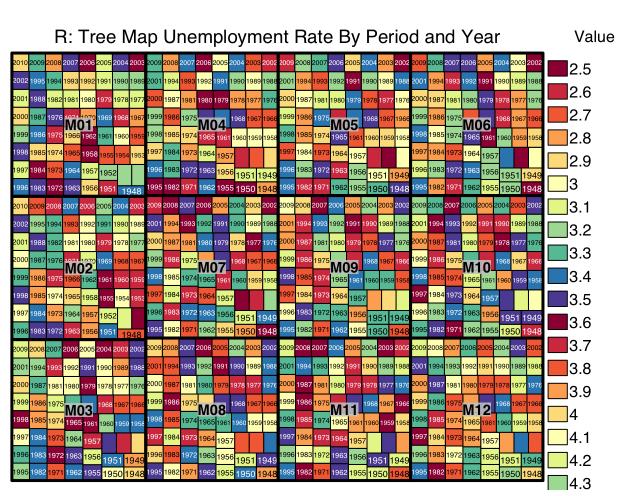


# R Charts Exercise 3.2

#### **Gracie Inman**

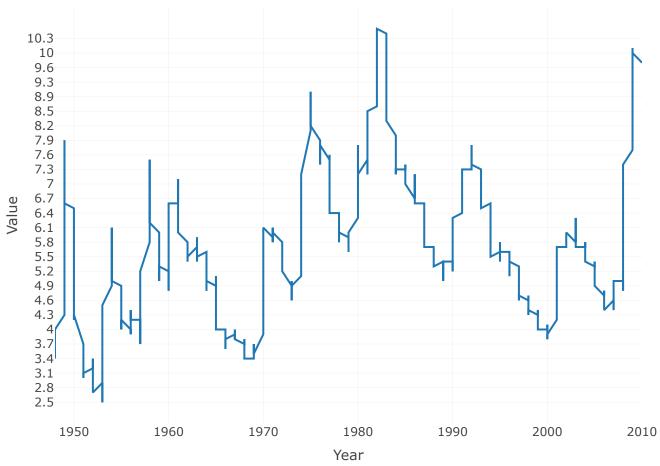
2024-01-21

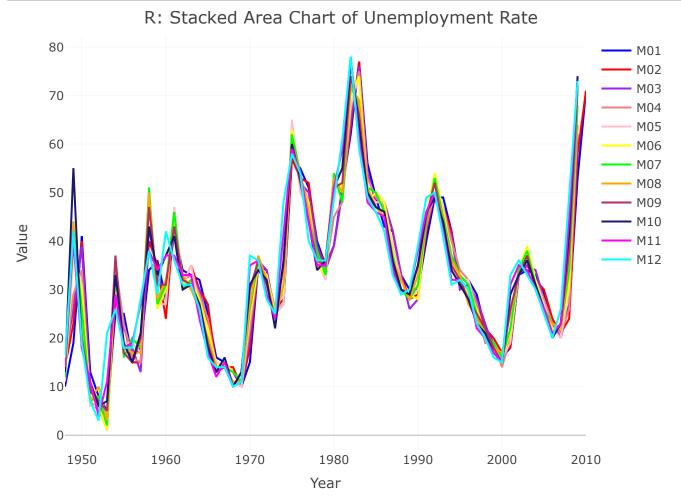
```
# Load Libraries
library(ggplot2)
library(plotly)
##
## Attaching package: 'plotly'
## The following object is masked from 'package:ggplot2':
##
       last_plot
##
## The following object is masked from 'package:stats':
##
##
       filter
## The following object is masked from 'package:graphics':
##
##
       layout
library(treemap)
# Load the dataset
data <- read.csv("/Users/gracieinman/Downloads/ex3-3/unemployement-rate-1948-2010.csv")</pre>
```



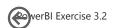
```
# Area Chart
area_chart <- plot_ly(data, x = ~Year, y = ~`Value`, type = 'scatter', mode = 'lines')
area_chart <- area_chart %>% layout(title = 'R: Area Chart Unemployment Rate Over Time')
area_chart
```







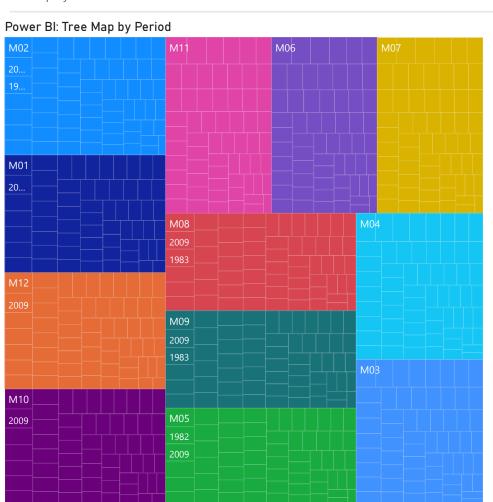
1/21/24, 1:55 PM Power BI

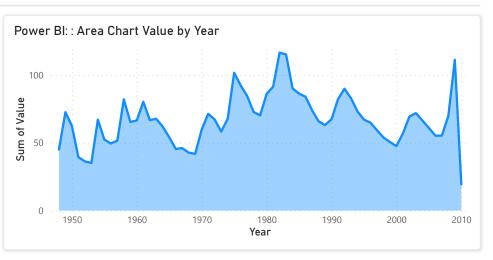


**Unemployment Data** 

4,227.20 Sum of Value

746 Count of Unemployment...





Power BI: Stacked Area Chart by Period

